Fire Suppression
General Products Catalogue

Automatic Sprinklers
System Valves & Devices
Piping & Electrical Products
Specialty Systems

Johnson Controls

FIRE SUPPRESSION
General Products Catalogue

Johnson Controls leads the industry in water-based fire suppression products, offering one of the broadest product lines globally. Through ongoing, world-class research and development, we're continually expanding our capabilities. Our solutions include brands that have led the fire protection industry for decades – with over 150 years in the industry, we are uniquely qualified to deliver cost-effective solutions customized to any building configuration and fire protection application.

The Johnson Controls team is committed to delivering products with dependable performance that have received independent approvals and certifications from industry agencies globally. Our state-of-the-art, international manufacturing facilities have all been granted ISO 9000 approvals and are routinely audited by independent testing agencies for quality and conformance. We also participate in many committees and several international standards and code-making bodies.

The Johnson Controls fire suppression offering includes leading brands from across the fire protection industry with decades of industry knowledge and expertise. The brands leverage the global reach of Johnson Controls to bring customers effective solutions for a variety of applications.

TechXchange Academy

The state-of-the-art TechXchange academy offers on-site and online training courses to equip students with work-relevant training and on-the-job performance. These solutions, when applied in the workplace, increase the ability of our graduates to better create value for their organization and their customers.

It offers various training courses on topics such as Sprinkler Systems, WaterMist System and SprinkCAD Software.

To learn more, please visit www.onlinetechxchange.com

10 Year Limited Warranty

We have the unique distinction of standing behind the fire suppression products we manufacture by offering a 10 year limited warranty. This exhibits our commitment to product quality worldwide. Please see the General Terms and Conditions of Sale at www.tyco-fire.com.

Click on the brands to find out more.

tyco® AquaMist Grinnell® rapidresponse® sprinkCAD™

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sprinkCAD

Advanced Software for the Fire Protection Professional

SprinkCAD™ 3D
Users can design in full-3D using fast, accurate drawing and editing tools

SprinkCODE™ Connect
This web-based, interactive code guide includes multiple editions of NFPA and EN codes

SprinkCALC
Perform hydraulic calculations and easily share them with an approving authority

SprinkFDT
This tool is the only UL Listed software for calculating fluid delivery time to optimize dry system design

SprinkSLIC
Users can create and interpret pipe fabrication schedules utilizing this standalone stocklisting software

REVIT® Tools for SprinkCAD
Optional add-on tools for use with SprinkCAD 3D™ or Classic help simplify Revit® design

Standard Spray Sprinklers

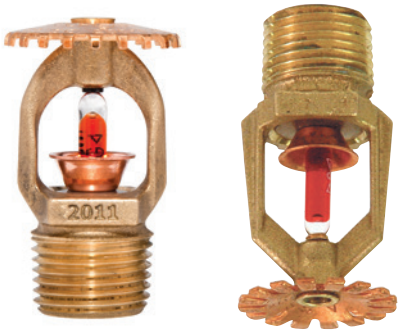
Offered in a wide range of standard and quick response options for light and ordinary hazard occupancies.

- Airports
- Assembly Spaces
- Banks
- Colleges/Universities
- Hospitals/Clinics
- Hotels
- Libraries
- Museums
- Prisons
- Retail
- Schools
- Theaters
- Transportation Terminals

Standard Spray Sprinklers

TY-B

Upright, Pendent, & Recessed Pendent

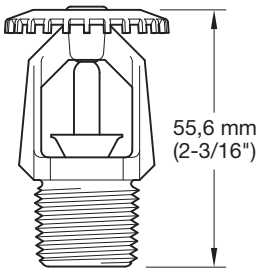


K Factor	K= 40 (2.8) · K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	K=40 – UL, C-UL, FM, NYC K=80 – UL, C-UL, FM, CE, VdS K=115 – UL, C-UL, FM, NYC, LPCB, VdS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F), Open
Escutcheon	K=80 – Style 15, Style 20 K=115 – Style 10, Style 40
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY1151, TY1251, TY315, TY325, TY3151, TY3251 TY4151, TY4251, TY4851, TY4951
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	K=40, K=80, & K=115 – **TFP151 /** K=80 – **TFP152**

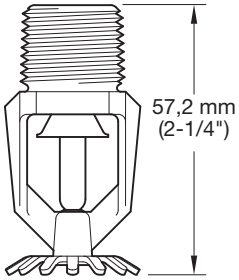
All hazard ■ 5 mm bulb ■ Small frame, narrow profile bulb ■ Discharges a hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in light, ordinary, or extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.

TY-B, K=40 (2.8), 1/2" NPT

Upright · K=40 [2.8]
1/2" NPT · SIN TY1151



Pendent · K=40 [2.8]
1/2" NPT · SIN TY1251



K=40 [2.8] · 1/2" NPT · TFP151						
Part No.		Temperature		Finish Code	Approvals & Listings	
Upright SIN TY1151	Pendent SIN TY1251	°C	°F		FM	UL
575301135	575311135	57	135	1	√	√
575301155	575311155	68	155	1	√	√
575301175	575311175	79	175	1	√	√
575301200	575311200	93	200	1	√	√
575301286	575311286	141	286	1	√	√
575301360	575311360	182	360	1	-	√
575303135	575313135	57	135	3	√	√
575303155	575313155	68	155	3	√	√
575303175	575313175	79	175	3	√	√
575303200	575313200	93	200	3	√	√
575303286	575313286	141	286	3	√	√
575303360	575313360	182	360	3	-	√
575304135	575314135	57	135	4	√	√
575304155	575314155	68	155	4	√	√
575304175	575314175	79	175	4	√	√
575304200	575314200	93	200	4	√	√
575304286	575314286	141	286	4	√	√
575304360	575314360	182	360	4	-	√
575309135	575319135	57	135	9	√	√
575309155	575319155	68	155	9	√	√
575309175	575319175	79	175	9	√	√
575309200	575319200	93	200	9	√	√
575309286	575319286	141	286	9	√	√
575309360	575319360	182	360	9	-	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal Polyester RAL9003, 9=Chrome Plated

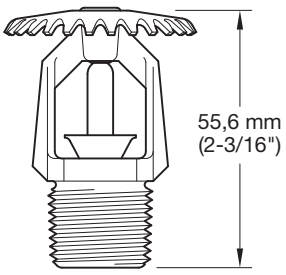
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

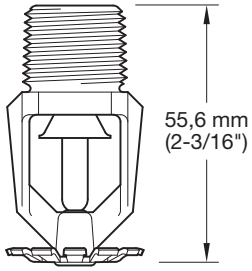
Upright, Pendent, & Recessed Pendent (Cont.)

TY-B, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY3151



Pendent • K=80 [5.6]
½" NPT • SIN TY3251



K=80 [5.6] • ½" NPT • TFP151																
Part No.		Temp.		Finish Code	Approvals & Listings											
Upright SIN TY3151	Pendent SIN TY3251	°C	°F		FM	UL	VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF
575701135	575711135	57	135	1	√	√	√ ♦	√	√	√	√	U	√	√	√
575701155	575711155	68	155	1	√	√	√ ♦	√	√	√	√	U	√	√	√
575701175	575711175	79	175	1	√	√	√ ♦	√	√	√	√	U	√	√	√
575701200	575711200	93	200	1	√	√	√ ♦	√	√	√	√	U	√	√	√
575701286	575711286	141	286	1	√ ♦	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575701360	575711360	182	360	1	√ ♦	√ ♦	√ ♦	√ ♦	√	√	√	U	√	√	√
575702135	575712135	57	135	2	-	√	-	-	√	√	√	U	√	√	√
575702155	575712155	68	155	2	-	√	-	-	√	√	√	U	√	√	√
575702175	575712175	79	175	2	-	√	-	-	√	√	√	U	√	√	√
575702200	575712200	93	200	2	-	√	-	-	√	√	√	U	√	√	√
575702286	575712286	141	286	2	-	√	-	-	√	√	√	U	√	√	√
575702360	575712360	182	360	2	-	√ ♦	-	-	√	√	√	U	√	√	√
575703135	575713135	57	135	3	√	√	√ ♦	√	√	√	√	U	√	√	√
575703155	575713155	68	155	3	√	√	√ ♦	√	√	√	√	U	√	√	√
575703175	575713175	79	175	3	√	√	√ ♦	√	√	√	√	U	√	√	√
575703200	575713200	93	200	3	√	√	√ ♦	√	√	√	√	U	√	√	√
575703286	575713286	141	286	3	√ ♦	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575703360	575713360	182	360	3	√ ♦	√ ♦	√ ♦	√ ♦	√	√	√	U	√	√	√
575704135	575714135	57	135	4	√	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575704155	575714155	68	155	4	√	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575704175	575714175	79	175	4	√	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575704200	575714200	93	200	4	√	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575704286	575714286	141	286	4	√ ♦	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575706135	575716135	57	135	6	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575706155	575716155	68	155	6	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575706175	575716175	79	175	6	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575706200	575716200	93	200	6	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575706286	575716286	141	286	6	-	-	-	-	√	√	√	U	√	√	√
575707135	575717135	57	135	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575707155	575717155	68	155	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575707175	575717175	79	175	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575707200	575717200	93	200	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575707286	575717286	141	286	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575707360	575717360	182	360	7	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575708135	575718135	57	135	8	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575708155	575718155	68	155	8	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575708175	575718175	79	175	8	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575708200	575718200	93	200	8	√ ♦	√ ♦	-	-	√	√	√	U	√	√	√
575708286	575718286	141	286	8	-	-	-	-	√	√	√	U	√	√	√
575709135	575719135	57	135	9	√	√	√ ♦	√	√	√	√	U	√	√	√
575709155	575719155	68	155	9	√	√	√ ♦	√	√	√	√	U	√	√	√
575709175	575719175	79	175	9	√	√	√ ♦	√	√	√	√	U	√	√	√
575709200	575719200	93	200	9	√	√	√ ♦	√	√	√	√	U	√	√	√
575709286	575719286	141	286	9	√ ♦	√	√ ♦	√ ♦	√	√	√	U	√	√	√
575709360	575719360	182	360	9	√ ♦	√ ♦	√ ♦	√ ♦	√	√	√	U	√	√	√

♦=Recessed Pendent Not Approved; **U** Upright Only Approved

Finish Code:
1=Plain Brass,
2=Poly-Stainless Grey Aluminium Polyester RAL9007,
3=Pure White Polyester RAL9010,
4=Signal White Polyester RAL9003,
6=Wax Coated,
7=Lead Coated,
8=Wax-Over Lead Coated,
9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

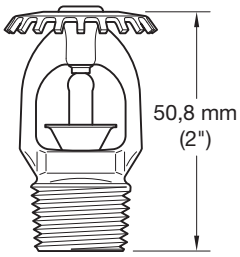
Standard Spray Sprinklers

TY-B

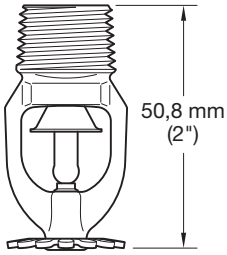
Upright, Pendent, & Recessed Pendent (Cont.)

TY-B, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY315



Pendent • K=80 [5.6]
½" NPT • SIN TY325



K=80 [5.6] • ½" NPT • TFP152														
Part No.		Temp.		Finish Code	Approvals & Listings									
Upright SIN TY315	Pendent SIN TY325	°C	°F		UL	FM	VdS	LPCB	Ukrainian	Belarusian	Fire Academy of Russia	VKF	CE
775701135	775711135	57	135	1	√	√	√ ♦	√	√	√	√	√	√
775701155	775711155	68	155	1	√	√	√ ♦	√	√	√	√	√	√
775701175	775711175	79	175	1	√	√	√ ♦	√	√	√	√	√	√
775701200	775711200	93	200	1	√	√	√ ♦	√	√	√	√	√	√
775701286	775711286	141	286	1	√	√	√ ♦	√	√	√	√	√	√
775701360	775711360	182	360	1	√	√	√ ♦	♦	√	√	√	√	√
775703135	775713135	57	135	3	√	√	√ ♦	√	√	√	√	√	√
775703155	775713155	68	155	3	√	√	√ ♦	√	√	√	√	√	√
775703175	775713175	79	175	3	√	√	√ ♦	√	√	√	√	√	√
775703200	775713200	93	200	3	√	√	√ ♦	√	√	√	√	√	√
775703286	775713286	141	286	3	√	√	√ ♦	√	√	√	√	√	√
775703360	775713360	182	360	3	√	√	√ ♦	♦	√	√	√	√	√
775704135	775714135	57	135	4	√	√	√ ♦	√	√	√	√	√	√
775704155	775714155	68	155	4	√	√	√ ♦	√	√	√	√	√	√
775704175	775714175	79	175	4	√	√	√ ♦	√	√	√	√	√	√
775704200	775714200	93	200	4	√	√	√ ♦	√	√	√	√	√	√
775704286	775714286	141	286	4	√	√	√ ♦	√	√	√	√	√	√
775704360	775714360	182	360	4	√	√	√ ♦	♦	√	√	√	√	√
775705135	775715135	57	135	5	√	√	√ ♦	√	√	√	√	√	√
775705155	775715155	68	155	5	√	√	√ ♦	√	√	√	√	√	√
775705175	775715175	79	175	5	√	√	√ ♦	√	√	√	√	√	√
775705200	775715200	93	200	5	√	√	√ ♦	√	√	√	√	√	√
775705286	775715286	141	286	5	√	√	√ ♦	√	√	√	√	√	√
775705360	775715360	182	360	5	√	√	√ ♦	♦	√	√	√	√	√
775709135	775719135	57	135	9	√	√	√ ♦	√	√	√	√	√	√
775709155	775719155	68	155	9	√	√	√ ♦	√	√	√	√	√	√
775709175	775719175	79	175	9	√	√	√ ♦	√	√	√	√	√	√
775709200	775719200	93	200	9	√	√	√ ♦	√	√	√	√	√	√
775709286	775719286	141	286	9	√	√	√ ♦	√	√	√	√	√	√
775709360	775719360	182	360	9	√	√	√ ♦	♦	√	√	√	√	√

♦=Recessed Pendent Not Approved

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

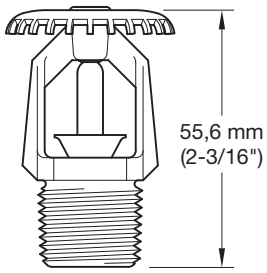
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

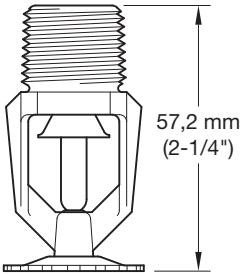
Upright, Pendent, & Recessed Pendent (Cont.)

TY-B, K=115 (8.0), ½" NPT

Upright • K=115 [8.0]
½" NPT • SIN TY4851



Pendent • K=115 [8.0]
½" NPT • SIN TY4951



K=115 [8.0] • ½" NPT • TFP151										
Part No.		Temperature		Finish Code	Approvals & Listings					
Upright SIN TY4851	Pendent SIN TY4951	°C	°F		VdS	LPCB	FM	UL	CE	Ukrainian
575601135	575611135	57	135	1	√	√	√	√	√	√
575601155	575611155	68	155	1	√	√	√	√	√	√
575601175	575611175	79	175	1	√	√	√	√	√	√
575601200	575611200	93	200	1	√	√	√	√	√	√
575601286	575611286	141	286	1	√	√	√	√	√	√
575601360	575611360	182	360	1	√	√	√	√	√	√
575603135	575613135	57	135	3	√	√	√	√	√	√
575603155	575613155	68	155	3	√	√	√	√	√	√
575603175	575613175	79	175	3	√	√	√	√	√	√
575603200	575613200	93	200	3	√	√	√	√	√	√
575603286	575613286	141	286	3	√	√	√	√	√	√
575603360	575613360	182	360	3	√	√	√	√	√	√
575604135	575614135	57	135	4	√	√	√	√	√	√
575604155	575614155	68	155	4	√	√	√	√	√	√
575604175	575614175	79	175	4	√	√	√	√	√	√
575604200	575614200	93	200	4	√	√	√	√	√	√
575604286	575614286	141	286	4	√	√	√	√	√	√
575604360	575614360	182	360	4	√	√	√	√	√	√
575605155	575615155	68	155	5	√	√	√	√	√	√
575605200	575615200	93	200	5	√	√	√	√	√	√
575606135	575616135	57	135	6	-	-	-	-	√	√
575606155	575616155	68	155	6	-	-	-	-	√	√
575606175	575616175	79	175	6	-	-	-	-	√	√
575606200	575616200	93	200	6	-	-	-	-	√	√
575606286	575616286	141	286	6	-	-	-	-	√	√
575607135	575617135	57	135	7	-	-	-	-	√	√
575607155	575617155	68	155	7	-	-	-	-	√	√
575607175	575617175	79	175	7	-	-	-	-	√	√
575607200	575617200	93	200	7	-	-	-	-	√	√
575607286	575617286	141	286	7	-	-	-	-	√	√
575607360	575617360	182	360	7	-	-	-	-	√	√
575608135	575618135	57	135	8	-	-	-	-	√	√
575608155	575618155	68	155	8	-	-	-	-	√	√
575608175	575618175	79	175	8	-	-	-	-	√	√
575608200	575618200	93	200	8	-	-	-	-	√	√
575608286	575618286	141	286	8	-	-	-	-	√	√
575609135	575619135	57	135	9	√	√	√	√	√	√
575609155	575619155	68	155	9	√	√	√	√	√	√
575609175	575619175	79	175	9	√	√	√	√	√	√
575609200	575619200	93	200	9	√	√	√	√	√	√
575609286	575619286	141	286	9	√	√	√	√	√	√
575609360	575619360	182	360	9	√	√	√	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

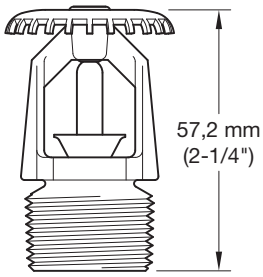
Standard Spray Sprinklers

TY-B

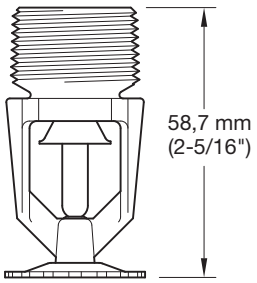
Upright, Pendent, & Recessed Pendent (Cont.)

TY-B, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4151



Pendent • K=115 [8.0]
¾" NPT • SIN TY4251



♦=Recessed Pendent Not Approved;
U Upright Only Approved

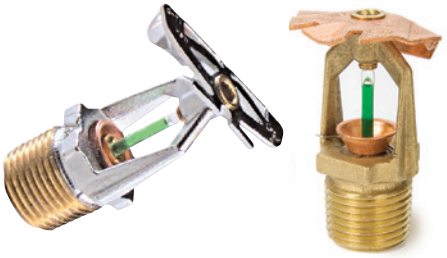
Finish Code:
1=Plain Brass,
2=Poly-Stainless Grey Aluminium Polyester RAL9007,
3=Pure White Polyester RAL9010,
4=Signal White Polyester RAL9003,
5=Jet Black Polyester RAL9005,
6=Wax Coated,
7=Lead Coated,
8=Wax-Over Lead Coated,
9=Chrome Plated

K=115 [8.0] • ¾" NPT • TFP151																
Part No.		Temp.		Finish Code	Approvals & Listings											
Upright SIN TY4151	Pendent SIN TY4251	°C	°F		FM	UL	VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF
575901135	575911135	57	135	1	√	√	√ ♦	√	√	√	√	√	√	√	√
575901155	575911155	68	155	1	√	√	√ ♦	√	√	√	√	√	√	√	√
575901175	575911175	79	175	1	√	√	√ ♦	√	√	√	√	√	√	√	√
575901200	575911200	93	200	1	√	√	√ ♦	√	√	√	√	√	√	√	√
575901286	575911286	141	286	1	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575901360	575911360	182	360	1	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575901000	575911000	Open		1	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575902135	575912135	57	135	2	-	√	-	-	√	√	√	√	√	√	√
575902155	575912155	68	155	2	-	√	-	-	√	√	√	√	√	√	√
575902175	575912175	79	175	2	-	√	-	-	√	√	√	√	√	√	√
575902200	575912200	93	200	2	-	√	-	-	√	√	√	√	√	√	√
575902286	575912286	141	286	2	-	√	-	-	√	√	√	√	√	√	√
575902360	575912360	182	360	2	-	√	-	-	√	√	√	√	√	√	√
575902000	575912000	Open		2	-	√	-	-	√	√	√	√	√	√	√
575903135	575913135	57	135	3	√	√	√ ♦	√	√	√	√	√	√	√	√
575903155	575913155	68	155	3	√	√	√ ♦	√	√	√	√	√	√	√	√
575903175	575913175	79	175	3	√	√	√ ♦	√	√	√	√	√	√	√	√
575903200	575913200	93	200	3	√	√	√ ♦	√	√	√	√	√	√	√	√
575903286	575913286	141	286	3	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575903360	575913360	182	360	3	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575903000	575913000	Open		3	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575904135	575914135	57	135	4	√	√	√ ♦	√	√	√	√	√	√	√	√
575904155	575914155	68	155	4	√	√	√ ♦	√	√	√	√	√	√	√	√
575904175	575914175	79	175	4	√	√	√ ♦	√	√	√	√	√	√	√	√
575904200	575914200	93	200	4	√	√	√ ♦	√	√	√	√	√	√	√	√
575904286	575914286	141	286	4	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575904360	575914360	182	360	4	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575904000	575914000	Open		4	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575905155	575915155	68	155	5	√	√	♦	√	√	√	√	√	√	√	√
575905200	575915200	93	200	5	√	√	♦	√	√	√	√	√	√	√	√
575906135	575916135	57	135	6	√	√ ♦	-	-	√	√	√	√	√	√	√
575906155	575916155	68	155	6	√	√ ♦	-	-	√	√	√	√	√	√	√
575906175	575916175	79	175	6	√	√ ♦	-	-	√	√	√	√	√	√	√
575906200	575916200	93	200	6	√	√ ♦	-	-	√	√	√	√	√	√	√
575906286	575916286	141	286	6	√ ♦	√ ♦	-	-	√	√	√	√	√	√	√
575907135	575917135	57	135	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907155	575917155	68	155	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907175	575917175	79	175	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907200	575917200	93	200	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907286	575917286	141	286	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907360	575917360	182	360	7	-	√ ♦	-	-	√	√	√	√	√	√	√
575907000	575917000	Open		7	-	√ ♦	-	-	√	√	√	√	√	√	√
575908135	575918135	57	135	8	-	√ ♦	-	-	√	√	√	√	√	√	√
575908155	575918155	68	155	8	-	√ ♦	-	-	√	√	√	√	√	√	√
575908175	575918175	79	175	8	-	√ ♦	-	-	√	√	√	√	√	√	√
575908200	575918200	93	200	8	-	√ ♦	-	-	√	√	√	√	√	√	√
575908286	575918286	141	286	8	-	√ ♦	-	-	√	√	√	√	√	√	√
575909135	575919135	57	135	9	√	√	√ ♦	√	√	√	√	√	√	√	√
575909155	575919155	68	155	9	√	√	√ ♦	√	√	√	√	√	√	√	√
575909175	575919175	79	175	9	√	√	√ ♦	√	√	√	√	√	√	√	√
575909200	575919200	93	200	9	√	√	√ ♦	√	√	√	√	√	√	√	√
575909286	575919286	141	286	9	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575909360	575919360	182	360	9	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√
575909000	575919000	Open		9	√ ♦	√	√ ♦	√ ♦	√	√	√	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

Horizontal, Recessed Horizontal Sidewall & Vertical Sidewall



K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, FM, NYC, LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F), Open (HSW TY3351)
Escutcheon	Style 10
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3351, TY3451
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP161**

Light hazard/Ordinary hazard ■ 5 mm bulb ■ Small frame ■ Unique deflector design of the horizontal sidewall sprinkler results in smaller profile ■ Designed for installation along a wall or the side of a beam just beneath a smooth ceiling ■ Water discharge is directed primarily outward and downward in a quarter spherical pattern ■ Sidewall sprinklers are often used in lieu of standard pendent or upright sprinklers due to building construction, economic considerations, or aesthetics ■ Special deflector on the vertical sidewall sprinkler allows it to be installed in either a pendent or upright position

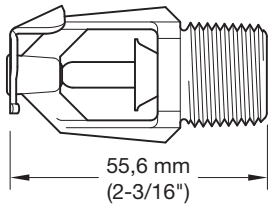
Finish Code: 1=Plain Brass, 3=White Polyester RAL9010, 6=Wax Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

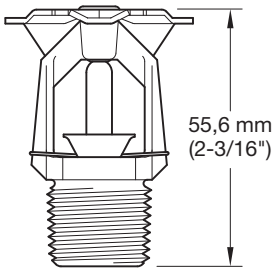
Standard Spray Sprinklers

TY-B, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 [5.6]
½" NPT · SIN TY3351



Vertical Sidewall · K=80 [5.6]
½" NPT · SIN TY3451



K=80 [5.6] · ½" NPT · TFP161										
Part No.		Temp.		Finish Code	Approvals & Listings					
HSW SIN TY3351	VSW SIN TY3451	°C	°F		FM	UL	LPCB	CE	Belarusian	Fire Academy of Russia
575781135	575751135	57	135	1	√	√	√ ♦	√	√	H
575781155	575751155	68	155	1	√	√	√ ♦	√	√	H
575781175	575751175	79	175	1	√	√	√ ♦	√	√	H
575781200	575751200	93	200	1	√	√	√ ♦	√	√	H
575781286	575751286	141	286	1	√ ♦	√	√ ♦	√	√	H
575781360	575751360	182	360	1	-	H	√ ♦	√	√	H
575781000	-	Open		1	H	H	H	√	√	H
575782135	-	57	135	2	-	H	-	√	√	H
575782155	-	68	155	2	-	H	-	√	√	H
575782175	-	79	175	2	-	H	-	√	√	H
575782200	-	93	200	2	-	H	-	√	√	H
575782286	-	141	286	2	-	√ ♦	-	√	√	H
575782360	-	182	360	2	-	√ ♦	-	√	√	H
575782000	-	Open		2	-	√ ♦	-	√	√	H
575783135	575753135	57	135	3	√	√	√ ♦	√	√	H
575783155	575753155	68	155	3	√	√	√ ♦	√	√	H
575783175	575753175	79	175	3	√	√	√ ♦	√	√	H
575783200	575753200	93	200	3	√	√	√ ♦	√	√	H
575783286	575753286	141	286	3	√ ♦	√ ♦	√ ♦	√	√	H
575783360	575753360	182	360	3	-	√ ♦	√ ♦	√	√	H
575783000	-	Open		3	H	H	H	√	√	H
575784135	575754135	57	135	4	√	√	√ ♦	√	√	H
575784155	575754155	68	155	4	√	√	√ ♦	√	√	H
575784175	575754175	79	175	4	√	√	√ ♦	√	√	H
575784200	575754200	93	200	4	√	√	√ ♦	√	√	H
575784286	575754286	141	286	4	√ ♦	√ ♦	√ ♦	√	√	H
575784360	575754360	182	360	4	-	√ ♦	√ ♦	√	√	H
575784000	-	Open		4	H	H	H	√	√	H
575785155	575755155	68	155	5	√	√	-	√	√	H
575785200	575755200	93	200	5	√	√	-	√	√	H
575786135	575756135	57	135	6	√ ♦	√ ♦	-	√	√	H
575786155	575756155	68	155	6	√ ♦	√ ♦	-	√	√	H
575786175	575756175	79	175	6	√ ♦	√ ♦	-	√	√	H
575786200	575756200	93	200	6	√ ♦	√ ♦	-	√	√	H
575786286	575756286	141	286	6	√ ♦	√ ♦	-	√	√	H
575787135	575757135	57	135	7	√ ♦	√ ♦	-	√	√	H
575787155	575757155	68	155	7	√ ♦	√ ♦	-	√	√	H
575787175	575757175	79	175	7	√ ♦	√ ♦	-	√	√	H
575787200	575757200	93	200	7	√ ♦	√ ♦	-	√	√	H
575787286	575757286	141	286	7	√ ♦	√ ♦	-	√	√	H
575787360	575757360	182	360	7	-	-	-	√	√	H
575787000	-	Open		7	H	H	-	√	√	H
575788135	575758135	57	135	8	√ ♦	√ ♦	-	√	√	H
575788155	575758155	68	155	8	√ ♦	√ ♦	-	√	√	H
575788175	575758175	79	175	8	√ ♦	√ ♦	-	√	√	H
575788200	575758200	93	200	8	√ ♦	√ ♦	-	√	√	H
575788286	575758286	141	286	8	√ ♦	√ ♦	-	√	√	H
575789135	575759135	57	135	9	√	√	√ ♦	√	√	H
575789155	575759155	68	155	9	√	√	√ ♦	√	√	H
575789175	575759175	79	175	9	√	√	√ ♦	√	√	H
575789200	575759200	93	200	9	√	√	√ ♦	√	√	H
575789286	575759286	141	286	9	√ ♦	√ ♦	√ ♦	√	√	H
575789360	575759360	182	360	9	-	√ ♦	√ ♦	√	√	H
575789000	-	Open		9	H	H	H	√	√	H

H=HSW Approved, ♦=Recessed HSW Not Approved; √=Both Approved

Finish Code:
1=Plain Brass,
2=Poly-Stainless Grey Aluminium RAL9007,
3=Pure White Polyester RAL9010,
4=Signal White Polyester RAL9003,
5=Jet Black Polyester RAL9005,
6=Wax Coated,
7=Lead Coated,
8=Wax-Over Lead Coated,
9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

Upright, Pendent, & Recessed Pendent

K Factor	K=40 (2.8) • K=60 (4.2) • K=80 (5.6) • K=115 (8.0)
Thread Size	½" NPT • ¾" NPT
Approvals	K=40 – UL, C-UL, FM, NYC K=60 – UL, C-UL K=80 – UL, C-UL, FM, VdS K=115 – UL, C-UL, FM, NYC, LPCB, VdS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Escutcheon	K=40, K=60 & K=115 – Style 10 • Style 20 • Style 30 • Style 40 K=80 – Style 15 • Style 20
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated
SIN	TY313, TY323, TY1131, TY1231, TY2131, TY2231, TY3131, TY3231, TY4131, TY4231, TY4831, TY4931
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	K=40 thru K=115 – **TFP171**, K=80 – **TFP172**

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Small frame and narrow profile bulb enhance appearance ■ Hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in commercial occupancies such as banks, hotels, and shopping malls.

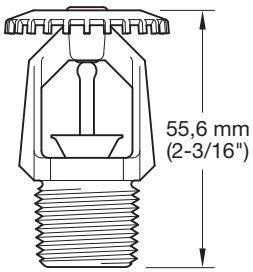
Finish Code: 1=Plain Brass, 3=White Polyester RAL9010, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

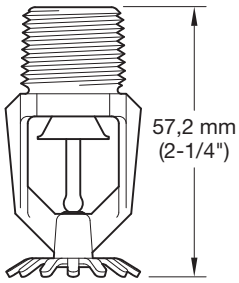
Standard Spray Sprinklers

TY-FRB, K=40 (2.8), ½" NPT

Upright • K=40 [2.8]
½" NPT • SIN TY1131



Pendent • K=40 [2.8]
½" NPT • SIN TY1231

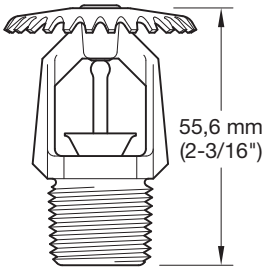


K=40 [2.8] • ½" NPT • TFP171						
Part No.		Temperature		Finish Code	Approvals & Listings	
Upright SIN TY1131	Pendent SIN TY1231	°C	°F		FM	UL
573301135	573311135	57	[135]	1	♦	√
573301155	573311155	68	[155]	1	♦	√
573301175	573311175	79	[175]	1	♦	√
573301200	573311200	93	[200]	1	♦	√
573301286	573311286	141	[286]	1	♦	√
573303135	573313135	57	[135]	3	♦	√
573303155	573313155	68	[155]	3	♦	√
573303175	573313175	79	[175]	3	♦	√
573303200	573313200	93	[200]	3	♦	√
573303286	573313286	141	[286]	3	♦	√
573304135	573314135	57	[135]	4	♦	√
573304155	573314155	68	[155]	4	♦	√
573304175	573314175	79	[175]	4	♦	√
573304200	573314200	93	[200]	4	♦	√
573304286	573314286	141	[286]	4	♦	√
573305155	573315155	68	[155]	5	♦	√
573305200	573315200	93	[200]	5	♦	√
573309135	573319135	57	[135]	9	♦	√
573309155	573319155	68	[155]	9	♦	√
573309175	573319175	79	[175]	9	♦	√
573309200	573319200	93	[200]	9	♦	√
573309286	573319286	141	[286]	9	♦	√

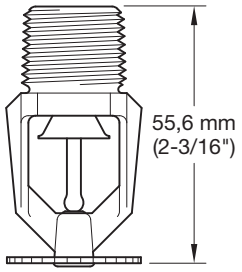
♦=Recessed Pendent Not Approved;

TY-FRB, K=60 (4.2), ½" NPT

Upright • K=60 [4.2]
½" NPT • SIN TY2131



Pendent • K=60 [4.2]
½" NPT • SIN TY2231

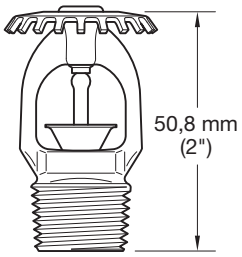


K=60 [4.2] • ½" NPT • TFP171					
Part No.		Temp.		Finish Code	Approvals & Listings
Upright SIN TY2131	Pendent SIN TY2231	°C	°F		UL
573401135	573411135	57	[135]	1	√
573401155	573411155	68	[155]	1	√
573401175	573411175	79	[175]	1	√
573401200	573411200	93	[200]	1	√
573401286	573411286	141	[286]	1	√
573403135	573413135	57	[135]	3	√
573403155	573413155	68	[155]	3	√
573403175	573413175	79	[175]	3	√
573403200	573413200	93	[200]	3	√
573403286	573413286	141	[286]	3	√
573404135	573414135	57	[135]	4	√
573404155	573414155	68	[155]	4	√
573404175	573414175	79	[175]	4	√
573404200	573414200	93	[200]	4	√
573404286	573414286	141	[286]	4	√
573405155	573415155	68	[155]	5	√
573405200	573415200	93	[200]	5	√
573409135	573419135	57	[135]	9	√
573409155	573419155	68	[155]	9	√
573409175	573419175	79	[175]	9	√
573409200	573419200	93	[200]	9	√
573409286	573419286	141	[286]	9	√

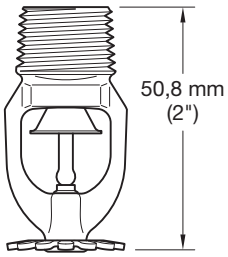
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY313



Pendent • K=80 [5.6]
½" NPT • SIN TY323



K=80 [5.6] • ½" NPT • TFP172													
Part No.		Temp.		Finish Code	Approvals & Listings								
Upright SIN TY313	Pendent SIN TY323	°C	°F		FM	UL	LPCB	VdS	CE	Ukrainian	Belarusian	Fire Academy of Russia	VKF
773701135	773711135	57	[135]	1	√	√	♦	♦	√	√	√	√	√
773701155	773711155	68	[155]	1	√	√	♦	♦	√	√	√	√	√
773701175	773711175	79	[175]	1	√	√	♦	♦	√	√	√	√	√
773701200	773711200	93	[200]	1	√	√	♦	♦	√	√	√	√	√
773701286	773711286	141	[286]	1	√	√	♦	♦	√	√	√	√	√
773703135	773713135	57	[135]	3	√	√	♦	♦	√	√	√	√	√
773703155	773713155	68	[155]	3	√	√	♦	♦	√	√	√	√	√
773703175	773713175	79	[175]	3	√	√	♦	♦	√	√	√	√	√
773703200	773713200	93	[200]	3	√	√	♦	♦	√	√	√	√	√
773703286	773713286	141	[286]	3	√	√	♦	♦	√	√	√	√	√
773704135	773714135	57	[135]	4	√	√	♦	♦	√	√	√	√	√
773704155	773714155	68	[155]	4	√	√	♦	♦	√	√	√	√	√
773704175	773714175	79	[175]	4	√	√	♦	♦	√	√	√	√	√
773704200	773714200	93	[200]	4	√	√	♦	♦	√	√	√	√	√
773704286	773714286	141	[286]	4	√	√	♦	♦	√	√	√	√	√
773705135	773715135	57	[135]	5	√	√	♦	♦	√	√	√	√	√
773705155	773715155	68	[155]	5	√	√	♦	♦	√	√	√	√	√
773705175	773715175	79	[175]	5	√	√	♦	♦	√	√	√	√	√
773705200	773715200	93	[200]	5	√	√	♦	♦	√	√	√	√	√
773705286	773715286	141	[286]	5	√	√	♦	♦	√	√	√	√	√
773709135	773719135	57	[135]	9	√	√	♦	♦	√	√	√	√	√
773709155	773719155	68	[155]	9	√	√	♦	♦	√	√	√	√	√
773709175	773719175	79	[175]	9	√	√	♦	♦	√	√	√	√	√
773709200	773719200	93	[200]	9	√	√	♦	♦	√	√	√	√	√
773709286	773719286	141	[286]	9	√	√	♦	♦	√	√	√	√	√

√=Both Approved, ♦=Recessed Pendent Not Approved;

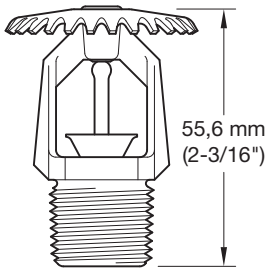
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

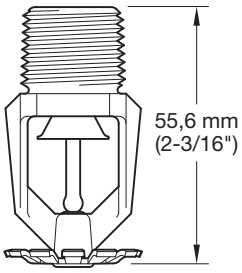
Standard Spray Sprinklers

TY-FRB, K=80 (5.6), 1/2" NPT

Upright • K=80 [5.6]
1/2" NPT • SIN TY3131



Pendent • K=80 [5.6]
1/2" NPT • SIN TY3231



K=80 [5.6] • 1/2" NPT • TFP171															
Part No.		Temp.		Finish Code	Approvals & Listings										
Upright SIN TY3131	Pendent SIN TY3231	°C	°F		FM	UL	VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF
573701135	573711135	57	[135]	1	√ b	√	♦	√	√	√	√	√	P	√	√
573701155	573711155	68	[155]	1	√ b	√	♦	√	√	√	√	√	P	√	√
573701175	573711175	79	[175]	1	√ b	√	♦	√	√	√	√	√	P	√	√
573701200	573711200	93	[200]	1	√ b	√	♦	√	√	√	√	√	P	√	√
573701286	573711286	141	[286]	1	√ b	√	♦	√	√	√	√	√	P	√	√
573702135	573712135	57	[135]	2	–	√a	–	–	√	√	√	√	P	√	√
573702155	573712155	68	[155]	2	–	√a	–	–	√	√	√	√	P	√	√
573702175	573712175	79	[175]	2	–	√a	–	–	√	√	√	√	P	√	√
573702200	573712200	93	[200]	2	–	√a	–	–	√	√	√	√	P	√	√
573702286	573712286	141	[286]	2	–	√a	–	–	√	√	√	√	P	√	√
573703135	573713135	57	[135]	3	√ b	√	♦	√	√	√	√	√	P	√	√
573703155	573713155	68	[155]	3	√ b	√	♦	√	√	√	√	√	P	√	√
573703175	573713175	79	[175]	3	√ b	√	♦	√	√	√	√	√	P	√	√
573703200	573713200	93	[200]	3	√ b	√	♦	√	√	√	√	√	P	√	√
573703286	573713286	141	[286]	3	√ b	√	♦	√	√	√	√	√	P	√	√
573704135	573714135	57	[135]	4	√ b	√	♦	√	√	√	√	√	P	√	√
573704155	573714155	68	[155]	4	√ b	√	♦	√	√	√	√	√	P	√	√
573704175	573714175	79	[175]	4	√ b	√	♦	√	√	√	√	√	P	√	√
573704200	573714200	93	[200]	4	√ b	√	♦	√	√	√	√	√	P	√	√
573704286	573714286	141	[286]	4	√ b	√	♦	√	√	√	√	√	P	√	√
573707135	573717135	57	[135]	7	♦	♦	–	–	√	√	√	√	P	√	√
573707155	573717155	68	[155]	7	♦	♦	–	–	√	√	√	√	P	√	√
573707175	573717175	79	[175]	7	♦	♦	–	–	√	√	√	√	P	√	√
573707200	573717200	93	[200]	7	♦	♦	–	–	√	√	√	√	P	√	√
573707286	573717286	141	[286]	7	♦	♦	–	–	√	√	√	√	P	√	√
573709135	573719135	57	[135]	9	√ b	√	♦	√	√	√	√	√	P	√	√
573709155	573719155	68	[155]	9	√ b	√	♦	√	√	√	√	√	P	√	√
573709175	573719175	79	[175]	9	√ b	√	♦	√	√	√	√	√	P	√	√
573709200	573719200	93	[200]	9	√ b	√	♦	√	√	√	√	√	P	√	√
573709286	573719286	141	[286]	9	√ b	√	♦	√	√	√	√	√	P	√	√

P=Pendent Approved, **√**=Both Approved, ♦=Recessed Pendent Not Approved;

a. Recessed Pendent Installed with Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) 3/4 in. Total Adjustment Recessed Escutcheon, as applicable.

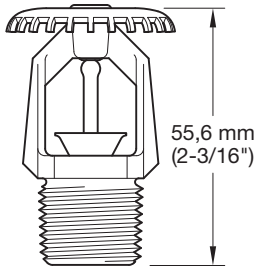
b. Recessed Pendent Installed with Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.

Finish Code: 1=Plain Brass, 2=Poly-Stainless Grey Aluminium Polyester RAL9007, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 7=Lead Coated, 9=Chrome Plated

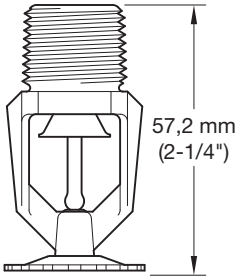
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB, K=115 (8.0), ½" NPT

Upright • K=115 [8.0]
½" NPT • SIN TY4831



Pendent • K=115 [8.0]
½" NPT • SIN TY4931



K=115 [8.0] • ½" NPT • TFP171								
Part No.		Temp.		Finish Code	Approvals & Listings			
Upright SIN TY4831	Pendent SIN TY4931	°C	°F		UL	VdS	LPCB	CE
573601135	573611135	57	[135]	1	√	√	√	√
573601155	573611155	68	[155]	1	√	√	√	√
573601175	573611175	79	[175]	1	√	√	√	√
573601200	573611200	93	[200]	1	√	√	√	√
573601286	573611286	141	[286]	1	√	√	√	√
573603135	573613135	57	[135]	3	√	√	√	√
573603155	573613155	68	[155]	3	√	√	√	√
573603175	573613175	79	[175]	3	√	√	√	√
573603200	573613200	93	[200]	3	√	√	√	√
573603286	573613286	141	[286]	3	√	√	√	√
573604135	573614135	57	[135]	4	√	√	√	√
573604155	573614155	68	[155]	4	√	√	√	√
573604175	573614175	79	[175]	4	√	√	√	√
573604200	573614200	93	[200]	4	√	√	√	√
573604286	573614286	141	[286]	4	√	√	√	√
573605155	573615155	68	[155]	5	√	√	√	√
573605200	573615200	93	[200]	5	√	√	√	√
573607135	573617135	57	[135]	7	√	-	-	√
573607155	573617155	68	[155]	7	√	-	-	√
573607175	573617175	79	[175]	7	√	-	-	√
573607200	573617200	93	[200]	7	√	-	-	√
573607286	573617286	141	[286]	7	√	-	-	√
573609135	573619135	57	[135]	9	√	√	√	√
573609155	573619155	68	[155]	9	√	√	√	√
573609175	573619175	79	[175]	9	√	√	√	√
573609200	573619200	93	[200]	9	√	√	√	√
573609286	573619286	141	[286]	9	√	√	√	√

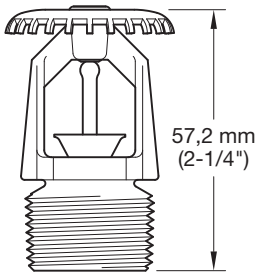
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

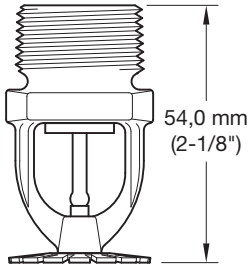
Standard Spray Sprinklers

TY-FRB, K=115 (8.0), ¾" NPT

Upright · K=115 [8.0]
¾" NPT · SIN TY4131



Pendent · K=115 [8.0]
¾" NPT · SIN TY4231



K=115 [8.0] · ¾" NPT · TFP171																
Part No.		Temp.		Finish Code	Approvals & Listings											
Upright SIN TY4131	Pendent SIN TY4231	°C	°F		FM	UL	VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF
573901135	573911135	57	[135]	1	√ b	√	♦	♦	√	√	√	√	√	√	√
573901155	573911155	68	[155]	1	√ b	√	♦	♦	√	√	√	√	√	√	√
573901175	573911175	79	[175]	1	√ b	√	♦	♦	√	√	√	√	√	√	√
573901200	573911200	93	[200]	1	√ b	√	♦	♦	√	√	√	√	√	√	√
573901286	573911286	141	[286]	1	√ b	√	♦	♦	√	√	√	√	√	√	√
573902135	573912135	57	[135]	2	-	√a	-	-	√	√	√	√	√	√	√
573902155	573912155	68	[155]	2	-	√a	-	-	√	√	√	√	√	√	√
573902175	573912175	79	[175]	2	-	√a	-	-	√	√	√	√	√	√	√
573902200	573912200	93	[200]	2	-	√a	-	-	√	√	√	√	√	√	√
573902286	573912286	141	[286]	2	-	√a	-	-	√	√	√	√	√	√	√
573903135	573913135	57	[135]	3	√ b	√	♦	♦	√	√	√	√	√	√	√
573903155	573913155	68	[155]	3	√ b	√	♦	♦	√	√	√	√	√	√	√
573903175	573913175	79	[175]	3	√ b	√	♦	♦	√	√	√	√	√	√	√
573903200	573913200	93	[200]	3	√ b	√	♦	♦	√	√	√	√	√	√	√
573903286	573913286	141	[286]	3	√ b	√	♦	♦	√	√	√	√	√	√	√
573904135	573914135	57	[135]	4	√ b	√	♦	♦	√	√	√	√	√	√	√
573904155	573914155	68	[155]	4	√ b	√	♦	♦	√	√	√	√	√	√	√
573904175	573914175	79	[175]	4	√ b	√	♦	♦	√	√	√	√	√	√	√
573904200	573914200	93	[200]	4	√ b	√	♦	♦	√	√	√	√	√	√	√
573904286	573914286	141	[286]	4	√ b	√	♦	♦	√	√	√	√	√	√	√
573905155	573915155	68	[155]	5	√ b	√	♦	♦	√	√	√	√	√	√	√
573905200	573915200	93	[200]	5	√ b	√	♦	♦	√	√	√	√	√	√	√
573907135	573917135	57	[135]	7	-	♦	-	-	√	√	√	√	√	√	√
573907155	573917155	68	[155]	7	-	♦	-	-	√	√	√	√	√	√	√
573907175	573917175	79	[175]	7	-	♦	-	-	√	√	√	√	√	√	√
573907200	573917200	93	[200]	7	-	♦	-	-	√	√	√	√	√	√	√
573907286	573917286	141	[286]	7	-	♦	-	-	√	√	√	√	√	√	√
573909135	573919135	57	[135]	9	√ b	√	♦	♦	√	√	√	√	√	√	√
573909155	573919155	68	[155]	9	√ b	√	♦	♦	√	√	√	√	√	√	√
573909175	573919175	79	[175]	9	√ b	√	♦	♦	√	√	√	√	√	√	√
573909200	573919200	93	[200]	9	√ b	√	♦	♦	√	√	√	√	√	√	√
573909286	573919286	141	[286]	9	√ b	√	♦	♦	√	√	√	√	√	√	√

√=Both Approved, ♦=Recessed Pendent Not Approved;

a. Recessed Pendent Installed with Style 10 (½ in. NPT) or Style 40 (¾ in. NPT) ¾ in. Total Adjustment Recessed Escutcheon, as applicable.

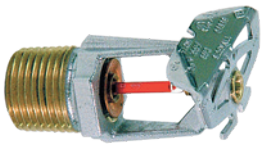
b. Recessed Pendent Installed with Style 20 (½ in. NPT) or Style 30 (¾ in. NPT) ½ in. Total Adjustment Recessed Escutcheon, as applicable.

Finish Code: 1=Plain Brass, 2=Poly-Stainless Grey Aluminium Polyester RAL9007, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

Horizontal, Recessed Horizontal Sidewall & Vertical Sidewall



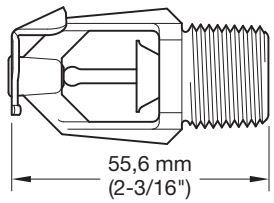
K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, FM, NYC, LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Escutcheon	Style 10 • Style 20
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated
SIN	TY3331, TY3431
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP176**

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for use in applications where aesthetics must be considered or where building construction makes the installation of standard pendent or upright sprinklers impractical ■ Vertical sidewall sprinkler can be installed in either the pendent or upright position along a wall or the side of a beam and just below a smooth ceiling

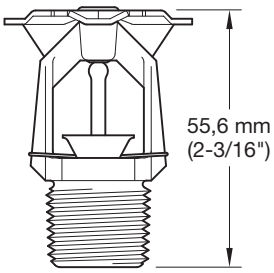
Standard Spray Sprinklers

TY-FRB, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 [5.6]
½" NPT · SIN TY3331



Vertical Sidewall · K=80 [5.6]
½" NPT · SIN TY3431



K=80 [5.6] · ½" NPT · TFP176										
Part No.		Temp.		Finish Code	Approvals & Listings					
HSW SIN TY3331	VSW SIN TY3431	°C	°F		FM	UL	LPCB	CE	Fire Academy of Russia	VKF
573781135	573751135	57	135	1	√ b	√	√	√	H	√
573781155	573751155	68	155	1	√ b	√	√	√	H	√
573781175	573751175	79	175	1	√ b	√	√	√	H	√
573781200	573751200	93	200	1	√ b	√	√	√	H	√
573781286	573751286	141	286	1	♦	√	√	√	H	√
573782135	-	57	135	2	-	√a	-	√	H	√
573782155	-	68	155	2	-	√a	-	√	H	√
573782175	-	79	175	2	-	√a	-	√	H	√
573782200	-	93	200	2	-	√a	-	√	H	√
573782286	-	141	286	2	-	√a	-	√	H	√
573783135	573753135	57	135	3	√ b	√	√	√	H	√
573783155	573753155	68	155	3	√ b	√	√	√	H	√
573783175	573753175	79	175	3	√ b	√	√	√	H	√
573783200	573753200	93	200	3	√ b	√	√	√	H	√
573783286	573753286	141	286	3	♦	√	√	√	H	√
573784135	573754135	57	135	4	√ b	√	√	√	H	√
573784155	573754155	68	155	4	√ b	√	√	√	H	√
573784175	573754175	79	175	4	√ b	√	√	√	H	√
573784200	573754200	93	200	4	√ b	√	√	√	H	√
573784286	573754286	141	286	4	♦	√	√	√	H	√
573785155	573755155	68	155	5	√ b	√	√	√	H	√
573785200	573755200	93	200	5	√ b	√	√	√	H	√
573787135	573757135	57	135	7	♦	♦	-	√	H	√
573787155	573757155	68	155	7	♦	♦	-	√	H	√
573787175	573757175	79	175	7	♦	♦	-	√	H	√
573787200	573757200	93	200	7	♦	♦	-	√	H	√
573787286	573757286	141	286	7	♦	♦	-	√	H	√
573789135	573759135	57	135	9	√ b	√	√	√	H	√
573789155	573759155	68	155	9	√ b	√	√	√	H	√
573789175	573759175	79	175	9	√ b	√	√	√	H	√
573789200	573759200	93	200	9	√ b	√	√	√	H	√
573789286	573759286	141	286	9	♦	√	√	√	H	√

H=HSW Approved, **√**=Both Approved ♦=Recessed HSW Not Approved;

a. Recessed HSW Installed with Style 10 (½ in. NPT) or Style 40 (¾ in. NPT) ¾ in. Total Adjustment Recessed Escutcheon, as applicable.

b. Recessed HSW Installed with Style 20 (½ in. NPT) or Style 30 (¾ in. NPT) ½ in. Total Adjustment Recessed Escutcheon, as applicable.

Finish Code: 1=Plain Brass, 2=Poly-Stainless Grey Aluminium Polyester RAL9007, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RFII

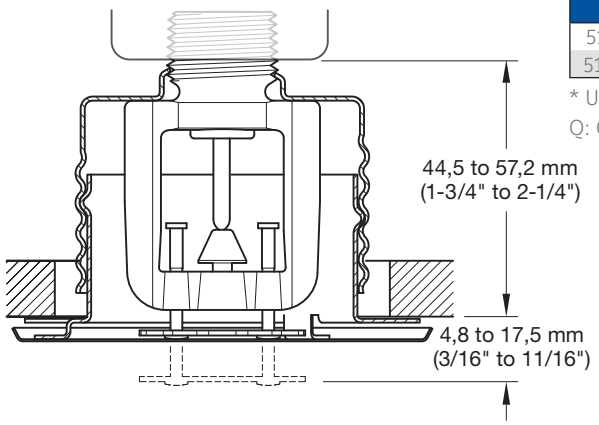
Concealed Pendent

K Factor	K=80 (5.6)
Thread Size	1/2" NPT
Approvals	3mm= UL, C-UL, NYC, VdS 3mm Standard Response is also FM, LPCB 5mm= UL, C-UL, FM, NYC, LPCB
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate 93°C (200°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Chrome, Brushed Chrome, Brass, Signal White, Grey White, Pure White, Jet Black, Custom
SIN	TY3551, TY3531
Wrench Type	RFII
Tech Data Sheet	**TFP181**

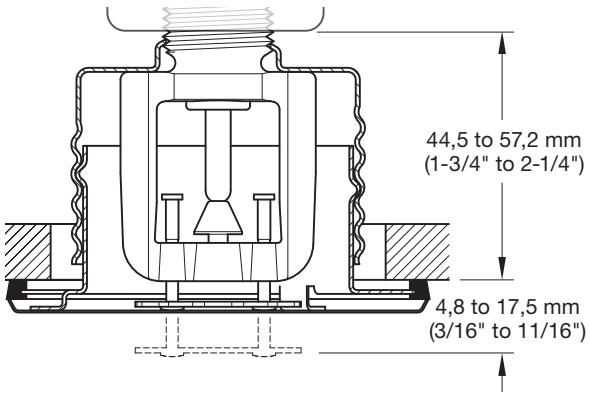
Light hazard/Ordinary hazard ■ 5 mm bulb (standard) 3 mm bulb (quick) ■ Internally threaded closure with 12,7 mm (1/2") of adjustment ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration ■ Separable, two-piece design of the mounting cup and cover plate allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling ■ Available with optional dust and air seal

RFII, K=80 (5.6), 1/2" NPT or ISO

Concealed Pendent • K=80 [5.6]
1/2" NPT • SIN SR: TY3551, QR: TY3531 (Shown)



Clean Room Seal



K=80 [5.6] • 1/2" NPT or ISO • TFP181													
Part No. *		Temp.		Finish Code	Approvals & Listings								
RFII SR SIN TY3551	RFII QR SIN TY3531	°C	°F		FM	UL	VdS	LPCB	CE	Ukrainian	Belarusian	Fire Academy of Russia
517901155	517921155	68	[155]	1	√	√	Q	√	√	√	S	√
517901200	517921200	93	[200]	1	√	√	Q	√	√	√	S	√

* Use Suffix "I" for ISO 7-1 connection; for example, 517921155-I
Q: Quick Response, S: Standard Response, √=Both Approved

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
567921135	59	139	68°C, 155°F	Brass
567921165	74	165	93°C, 200°F	Brass
567920135	59	139	68°C, 155°F	Grey White (RAL9002)
567920165	74	165	93°C, 200°F	Grey White (RAL9002)
567923135	59	139	68°C, 155°F	Pure White (RAL9010)
567923165	74	165	93°C, 200°F	Pure White (RAL9010)
567924135	59	139	68°C, 155°F	Signal White (RAL9003)
567924165	74	165	93°C, 200°F	Signal White (RAL9003)
567926135	59	139	68°C, 155°F	Jet Black (RAL9005)
597926165	74	165	93°C, 200°F	Jet Black (RAL9005)
567928135	59	139	68°C, 155°F	Brushed Chrome
567928165	74	165	93°C, 200°F	Brushed Chrome
567929135	59	139	68°C, 155°F	Chrome
567929165	74	165	93°C, 200°F	Chrome
56792X135	59	139	68°C, 155°F	Custom
56792X165	74	165	93°C, 200°F	Custom

Clean Room Seal	
Part No.	Approvals & Listings
	UL
569081001	√

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Standard Spray Sprinklers

RFII-MRI

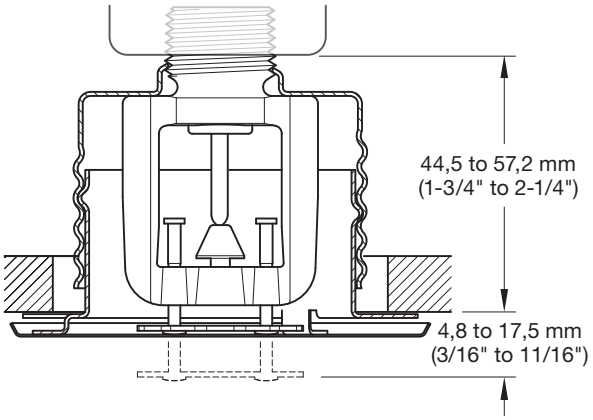
Concealed Pendent

K Factor	K=80 (5.6)
Thread Size	½" NPT
Approvals	3mm= UL, C-UL 5mm= UL, C-UL
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate 93°C (200°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Brass, Signal White, Grey White, Pure White, Jet Black, Custom
SIN	TY3550, TY3530
Wrench Type	RFII
Tech Data Sheet	**TFP182**

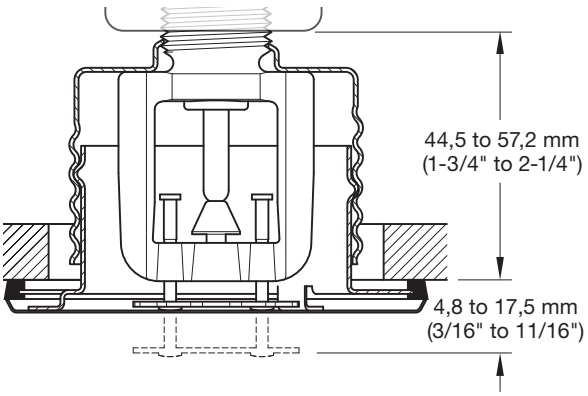
Non-magnetic flat-plate concealed sprinkler for MRI room applications ■ Tested up to 7 Tesla (standard MRI apparatus is typically 3 Tesla) ■ Concealed in an enclosed escutcheon plate with flat cover ■ Separable, two-piece design of the mounting cup and cover allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling ■ Internally threaded closure with 12,7 mm (½") of adjustment

RFII-MRI, K=80 (5.6), ½" NPT

Concealed Pendent · K=80 [5.6]
½" NPT · SIN SR: TY3550, QR: TY3530 (Shown)



Clean Room Seal



K=80 [5.6] · ½" NPT · TFP182					
Part No. *		Temp.		Finish Code	Approvals & Listings
RFII-MRI SR SIN TY3550	RFII-MRI QR SIN TY3530	°C	°F		UL
518011155	518001155	68	[155]	1	√
518011200	518001200	93	[200]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
567941135	59	139	68°C, 155°F	Brass
567941165	74	165	93°C, 200°F	Brass
567940135	59	139	68°C, 155°F	Grey White (RAL9002)
567940165	74	165	93°C, 200°F	Grey White (RAL9002)
567944135	59	139	68°C, 155°F	Signal White (RAL9003)
567944165	74	165	93°C, 200°F	Signal White (RAL9003)
567946135	59	139	68°C, 155°F	Jet Black (RAL9005)
597946165	74	165	93°C, 200°F	Jet Black (RAL9005)
56794X135	59	139	68°C, 155°F	Custom
56794X165	74	165	93°C, 200°F	Custom

Clean Room Seal	
Part No.	Approvals & Listings
	UL
569081001	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-L

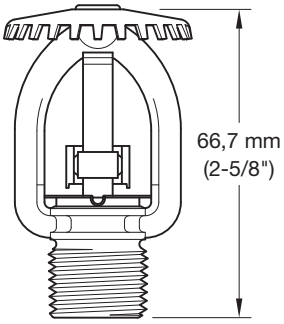
Upright, Pendent, & Recessed Pendent

K Factor	K= 80 (5.6) • K=115 (8.0)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, LPCB
Temperature	74°C (165°F), 100°C (212°F), 138°C (280°F)
Escutcheon	Style 20 • Style 30
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax over Lead Coated, Wax Coated
SIN	TY3111, TY3211, TY4111 TY4211, TY4811, TY4911
Wrench Type	W-TYPE 9 / W-TYPE 10 (for recessed escutcheons)
Tech Data Sheet	**TFP110**

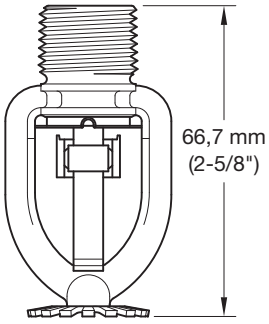
All hazard ■ Solder type ■ Discharges a hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in light, ordinary, and extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.

TY-L, K=80 (5.6), 1/2" NPT

Upright • K=80 [5.6]
1/2" NPT • SIN TY3111



Pendent • K=80 [5.6]
1/2" NPT • SIN TY3211



K=80 [5.6] • 1/2" NPT • TFP110								
Part No.		Temperature		Finish Code	Approvals & Listings			
Upright SIN TY3111	Pendent SIN TY3211	°C	°F		FM	UL	LPCB	CE
531111165	531121165	74	[165]	1	√	√	√	U
531111212	531121212	100	[212]	1	√	√	√	U
531111280	531121280	138	[280]	1	√	√	√	U
531116165	531126165	74	[165]	6	♦	♦	-	U
531116212	531126212	100	[212]	6	♦	♦	-	U
531116280	531126280	138	[280]	6	♦	-	-	U
531117165	531127165	74	[165]	7	♦	♦	-	U
531117212	531127212	100	[212]	7	♦	♦	-	U
531117280	531127280	138	[280]	7	-	♦	-	U
531118165	531128165	74	[165]	8	♦	♦	-	U
531118212	531128212	100	[212]	8	♦	♦	-	U
531119165	531129165	74	[165]	9	√	√	√	U
531119212	531129212	100	[212]	9	√	√	√	U
531119280	531129280	138	[280]	9	√	√	√	U

U=Upright Approved, √=Both Approved, ♦=Recessed Pendent Not Approved

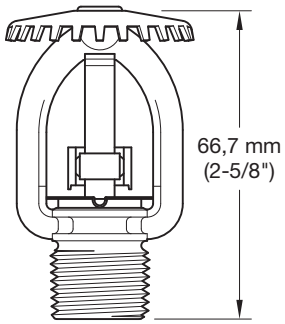
Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

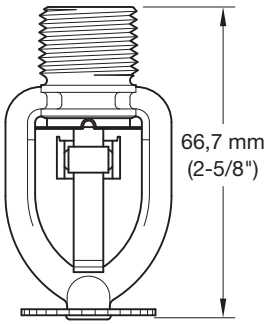
Standard Spray Sprinklers

TY-L, K=115 (8.0), ½" NPT

Upright • K=115 [8.0]
½" NPT • SIN TY4811



Pendent • K=115 [8.0]
½" NPT • SIN TY4911

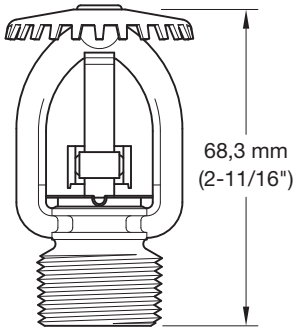


K=115 [8.0] • ½" NPT • TFP110							
Part No.		Temperature		Finish Code	Approvals & Listings		
Upright SIN TY4811	Pendent SIN TY4911	°C	°F		FM	UL	LPCB
531061165	531071165	74	[165]	1	♦	√	♦
531061212	531071212	100	[212]	1	♦	√	♦
531061280	531071280	138	[280]	1	√	√	√
531066165	531076165	74	[165]	6	♦	♦	-
531066212	531076212	100	[212]	6	♦	♦	-
531067165	531077165	74	[165]	7	♦	♦	-
531067212	531077212	100	[212]	7	♦	♦	-
531067280	531077280	138	[280]	7	-	√ ♦	-
531068165	531078165	74	[165]	8	♦	♦	-
531068212	531078212	100	[212]	8	♦	♦	-
531069165	531079165	74	[165]	9	♦	√	♦
531069212	531079212	100	[212]	9	♦	√	♦
531069280	531079280	138	[280]	9	√	√	√

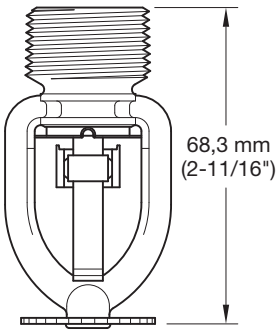
√=Both Approved, ♦=Recessed Pendent Not Approved;

TY-L, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4111



Pendent • K=115 [8.0]
¾" NPT • SIN TY4211



K=115 [8.0] • ¾" NPT • TFP110							
Part No.		Temperature		Finish Code	Approvals & Listings		
Upright SIN TY4111	Pendent SIN TY4211	°C	°F		FM	UL	LPCB
531011165	531021165	74	[165]	1	♦	√	U
531011212	531021212	100	[212]	1	♦	√	U
531011280	531021280	138	[280]	1	√	√	U
531016165	531026165	74	[165]	6	♦	♦	-
531016212	531026212	100	[212]	6	♦	♦	-
531016280	531026280	138	[280]	6	♦	-	-
531017165	531027165	74	[165]	7	♦	♦	-
531017212	531027212	100	[212]	7	♦	♦	-
531017280	531027280	138	[280]	7	-	√	-
531018165	531028165	74	[165]	8	♦	♦	-
531018212	531028212	100	[212]	8	♦	♦	-
531019165	531029165	74	[165]	9	♦	√	U
531019212	531029212	100	[212]	9	♦	√	U
531019280	531029280	138	[280]	9	√	√	U

U=Upright Approved, √=Both Approved, ♦=Recessed Pendent Not Approved

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-L

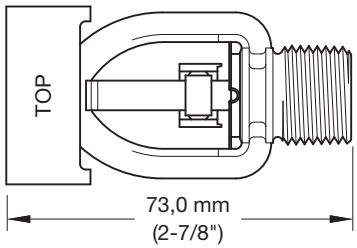
Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	74°C (165°F), 100°C (212°F), 138°C (280°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3311
Wrench Type	W-TYPE 9
Tech Data Sheet	**TFP120**

Light hazard / Ordinary hazard ■ Solder type ■ Suited for hotels, nursing homes and hospitals ■ Design allows piping to be confined to corridors, closets or service areas ■ They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling.

TY-L, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 [5.6]
½" NPT · SIN TY3311



K=80 [5.6] · ½" NPT · TFP120					
Part No.	Temperature		Finish Code	Approvals & Listings	
HSW SIN TY3311	°C	°F		FM	UL
531131165	74	[165]	1	√	√
531131212	100	[212]	1	√	√
531131280	138	[280]	1	√	√
531136165	74	[165]	6	-	√
531136212	100	[212]	6	-	√
531137165	74	[165]	7	-	√
531137212	100	[212]	7	-	√
531137280	138	[280]	7	-	-
531138165	74	[165]	8	-	√
531138212	100	[212]	8	-	√
531139165	74	[165]	9	√	√
531139212	100	[212]	9	√	√
531139280	138	[280]	9	√	√

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Standard Spray Sprinklers

TY-FRL

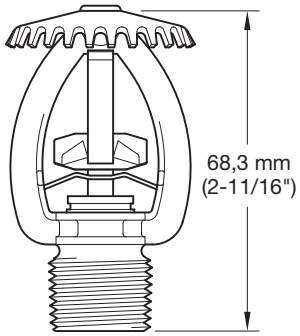
Upright, Pendent, & Recessed Pendent

K Factor	K= 40 (2.8) · K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	40 =UL, C-UL, NYC 80 =UL, C-UL, FM, NYC, LPCB 115 = UL, C-UL, FM, NYC
Temperature	74°C (165°F), 100°C (212°F)
Escutcheon	1/2" NPT - Style 20 3/4" NPT - Style 30
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Painted White
SIN	TY1121, TY1221, TY3121 TY3221, TY4121, TY4221
Wrench Type	W-TYPE 9 / W-TYPE 12 (for recessed escutcheons)
Tech Data Sheet	**TFP130**

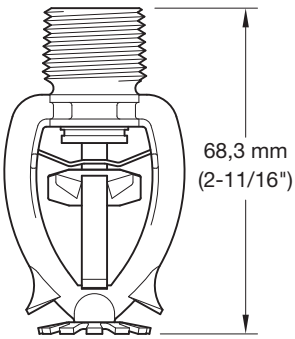
Light hazard/Ordinary hazard - light hazard K= 40 (2.8) ■ Solder type ■ Typically used in hotels, motels, office buildings, and other commercial and industrial applications

TY-FRL, K=40 (2.8), 1/2" NPT

Upright · K=40 [2.8]
1/2" NPT · SIN TY1121



Pendent · K=40 [2.8]
1/2" NPT · SIN TY1221



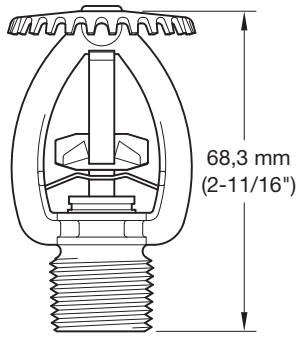
K=40 [2.8] · 1/2" NPT · TFP130					
Part No.		Temperature		Finish Code	Approvals & Listings
Upright SIN TY1121	Pendent SIN TY1221	°C	°F		UL
589731165	589711165	74	[165]	1	√
589731212	589711212	100	[212]	1	√
589739165	589719165	74	[165]	9	√
589739212	589719212	100	[212]	9	√

Finish Code: 1=Plain Brass, 9=Chrome Plated

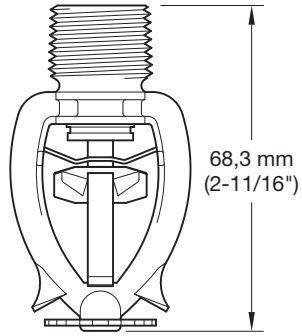
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRL, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY3121



Pendent • K=80 [5.6]
½" NPT • SIN TY3221



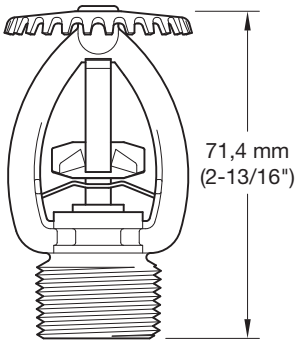
K=80 [5.6] • ½" NPT • TFP130								
Part No.		Temperature		Finish Code	Approvals & Listings			
Upright SIN TY3121	Pendent SIN TY3221	°C	°F		FM	UL	LPCB *	CE
589741165	589821165	74	[165]	1	♦	√	√	√
589741212	589821212	100	[212]	1	♦	√	√	√
589749165	589829165	74	[165]	9	♦	√	√	√
589749212	589829212	100	[212]	9	♦	√	√	√

* LPCB Approved with Unpainted Frame

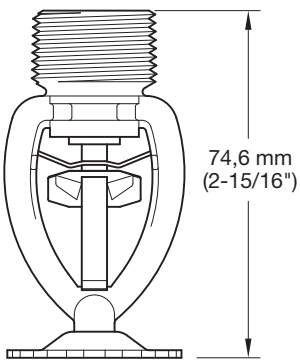
♦=Recessed Pendent Not Approved

TY-FRL, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4121



Pendent • K=115 [8.0]
¾" NPT • SIN TY4221



K=115 [8.0] • ¾" NPT • TFP130						
Part No.		Temperature		Finish Code	Approvals & Listings	
Upright SIN TY4121	Pendent SIN TY4221	°C	°F		FM	UL
581741165	581721165	74	[165]	1	√	√
581741212	581721212	100	[212]	1	√	√
581749165	581729165	74	[165]	9	√	√
581749212	581729212	100	[212]	9	√	√

Finish Code: 1=Plain Brass, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Standard Spray Sprinklers

TY-FRL

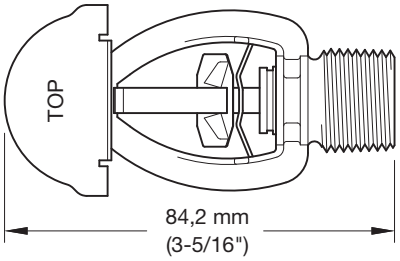
Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3321
Wrench Type	W-TYPE 9
Tech Data Sheet	**TFP140**

Light hazard/Ordinary hazard ■ Solder type ■ Designed for compact installation along a wall or on the side of a beam just beneath a smooth ceiling ■ Generally used in lieu of pendent or upright sprinklers because of aesthetics, building construction, where piping across the ceiling is not desirable.

TY-FRL, K=80 (5.6), 1/2" NPT

Horizontal Sidewall · K=80 [5.6]
1/2" NPT · SIN TY3321



K=80 [5.6] · 1/2" NPT · TFP140					
Part No.	Temperature		Finish Code	Approvals & Listings	
HSW SIN TY3321	°C	°F		FM	UL
589461165	74	[165]	1	√	√
589461212	100	[212]	1	√	√
589469165	74	[165]	9	√	√
589469212	100	[212]	9	√	√

Finish Code: 1=Plain Brass, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RFII-HSW

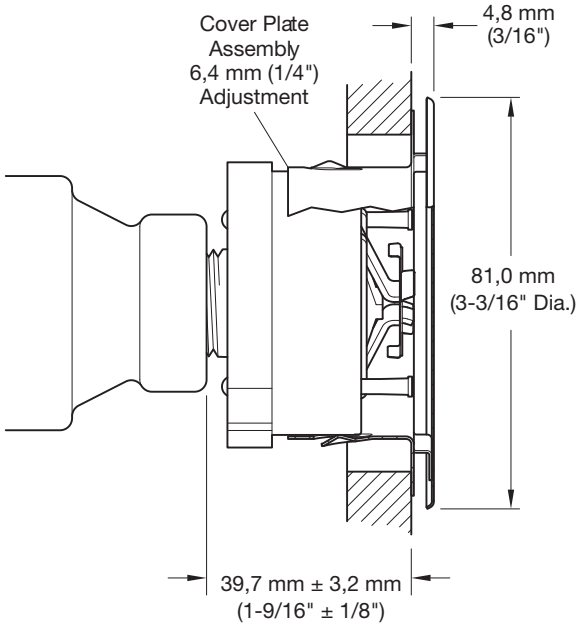
Concealed Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	71°C (160°F) - Sprinkler, 59°C (139°F) - Cover Plate 100°C (212°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Chrome, Brushed Brass, Custom Paint
SIN	TY3521
Wrench Type	W-TYPE 37
Tech Data Sheet	**TFP185**

Light hazard/Ordinary hazard ■ Solder Type ■ Internally threaded closure with 12,7 mm (½") of adjustment ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration ■ Separable, two-piece design of the mounting cup and cover plate allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling ■ Available with optional dust and air seal

RFII, K=80 (5.6), ½" NPT

Concealed HSW • K=80 [5.6]
½" NPT • SIN: TY3521



K=80 [5.6] • ½" NPT • TFP185					
Part No.	Temp.		Finish Code	Approvals & Listings	
RFI-HSW SIN TY3521	°C	°F		UL	C-UL
505501165	71	[160]	1	√	√
505501212	100	[212]	1	√	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
562040135	59	139	71°C, 160°F	Ivory (RAL1015)
562040165	74	165	100°C, 212°F	
562042135	59	139	71°C, 160°F	Beige (RAL1001)
562042165	74	165	100°C, 212°F	
562043135	59	139	71°C, 160°F	Pure White (RAL9010)
562043165	74	165	100°C, 212°F	
562044135	59	139	71°C, 160°F	Signal White (RAL9003)
562044165	74	165	100°C, 212°F	
562045135	59	139	71°C, 160°F	Grey White (RAL9002)
562045165	74	165	100°C, 212°F	
562046135	59	139	71°C, 160°F	Brown (RAL8028)
562046165	74	165	100°C, 212°F	
562047135	59	139	71°C, 160°F	Black (RAL9005)
562047165	74	165	100°C, 212°F	
562048135	59	139	71°C, 160°F	Brushed Brass
562048165	74	165	100°C, 212°F	
562049135	59	139	71°C, 160°F	Brushed Chrome
562049165	74	165	100°C, 212°F	
56204X135	59	139	71°C, 160°F	Custom Paint
56204X165	74	165	100°C, 212°F	

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Standard Spray Sprinklers

ILLUSION™

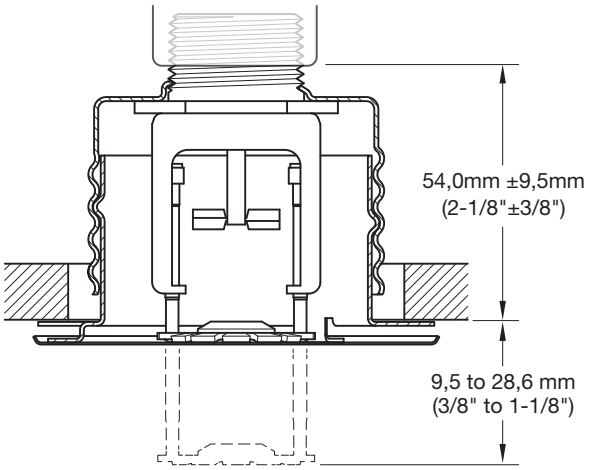
Concealed Standard Coverage Pendent Sprinklers

K Factor	K= 161 (11.2)
Thread Size	¾" NPT
Approvals	UL, C-UL
Temperature	71°C (160°F), - Sprinkler - 59°C (139°F) - Cover Plate, 100°C (212°F) - Sprinkler - 74°C (165°F) - Cover Plate
Cover Plate Finish	Chrome, Brush Chrome, Brass, Signal White, Grey White, Pure White, Custom
SIN	TY5521
Wrench Type	W-TYPE 18
Tech Data Sheet	**TFP184**

Extra large orifice/Special hazard ■ Coverage per NFPA 13 ■ Available with optional dust and air seal ■ The ILLUSION is concealed in an enclosed escutcheon plate with flat cover for use in those applications where architecturally sensitive areas such as casinos, hotel lobbies, office buildings, churches, and restaurants

ILLUSION, K=161 (11.2), ¾" NPT

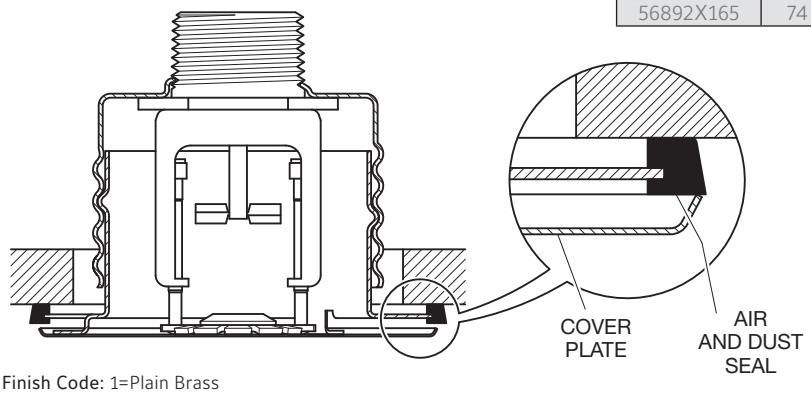
Concealed Pendent • K=161 [11.2]
¾" NPT • SIN SR: TY5521



K=161 [11.2] • ¾" NPT • TFP184				
Part No.	Temp.		Finish Code	Approvals & Listings
SIN TY5521	°C	°F		UL
507111160	71	[160]	1	√
507111212	100	[212]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
568921135	59	139	68°C, 155°F	Brass
568921165	74	165	93°C, 200°F	Brass
568920135	59	139	68°C, 155°F	Grey White (RAL9002)
568920165	74	165	93°C, 200°F	Grey White (RAL9002)
568923135	59	139	68°C, 155°F	Pure White (RAL9010)
568923165	74	165	93°C, 200°F	Pure White (RAL9010)
568924135	59	139	68°C, 155°F	Signal White (RAL9003)
568924135	74	165	93°C, 200°F	Signal White (RAL9003)
568928135	59	139	68°C, 155°F	Brushed Chrome
568928165	74	165	93°C, 200°F	Brushed Chrome
568929135	59	139	68°C, 155°F	Chrome
568929165	74	165	93°C, 200°F	Chrome
56892X135	59	139	68°C, 155°F	Custom
56892X165	74	165	93°C, 200°F	Custom

Clean Room Seal



Clean Room Seal	
Part No.	Approvals & Listings
	UL
569081001	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

Intended for protection of areas larger than those specified in standard installation rules and specific light, ordinary and extra hazard occupancies.

- Airports
- Assembly Spaces
- "Big Box" Retailing
- Colleges/Universities
- Hotels
- Hospitals
- Libraries
- Loading Docks
- Parking Garages
- Schools
- Transportation Terminals

Extended Coverage Sprinklers

EC-25

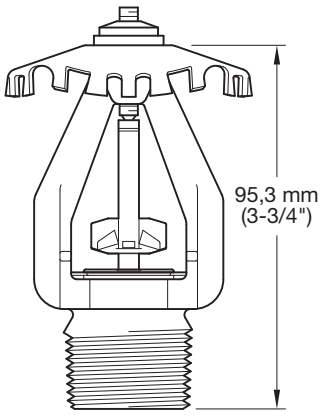
Upright

K Factor	K= 363 (25.2)
Thread Size	1" NPT or ISO 7-R1
Approvals	Standard Response = UL, C-UL, FM, NYC Quick Response = CMDA, CMSA
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY9128
Wrench Type	W-TYPE 1
Tech Data Sheet	**TFP213**

For use in high density applications such as "big box" retailing, extra hazard, and high-piled storage occupancies ■ Solder type ■ CMDA and CMSA Applications and FM Approved for storage and non-storage applications ■ Minimum operating pressure of 0,48 bar (7 psi) ■ The maximum coverage area per sprinkler is 18,2 m² (196 ft.²), which is almost double the area offered by standard coverage sprinklers used for similar applications.

EC-25, K=363 (25.2), 1" ISO or NPT

Upright • K=363 [25.2]
1" NPT or ISO • SIN TY9128



K=363 [25.2] • 1" NPT or ISO 7-R1 • TFP213								
Upright Part No.		Temperature		Finish Code	Approvals & Listings			
1" NPT SIN TY9128	1" ISO 7-R1 SIN TY9128	°C	°F		FM	UL	PAVUS	Fire Academy of Russia
584501165	584511165	74	[165]	1	√	√	√	√
584501214	584511214	100	[212]	1	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

EC-11 & EC-14

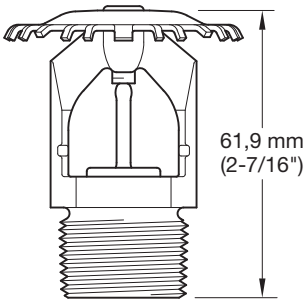
Upright, Pendent & Recessed Pendent

K Factor	K= 161 (11.2) · K= 201 (14.0)
Thread Size	¾" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), Open
Escutcheon	Style 30 · Style 40 · Style 60
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White, Jet Black, Lead Coated
SIN	TY5137, TY5237, TY6137, TY6237
Wrench Type	W-TYPE 3 / W-TYPE 22 (for recessed escutcheons)
Tech Data Sheet	**TFP220**

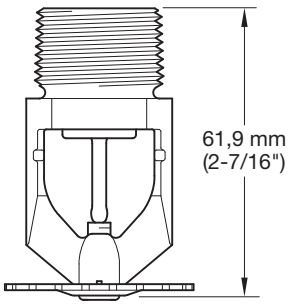
Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for maximum coverage applications of 37,2 m² (400 ft²) 4,3 m x 4,3 m (14' x 14') up to 6,1 m x 6,1 m (20' x 20') ■ Low profile decorative glass bulb spray sprinklers ■ Series EC-11 and EC-14 Sprinklers feature a UL and C-UL Listing that permits their use with unobstructed or non-combustible obstructed ceiling construction as defined and permitted by NFPA 13, as well as a specific application listing for use under concrete tees.

EC-11, K=160 (11.2)

Upright · K=160 [11.2]
¾" NPT · SIN TY5137



Pendent · K=160 [11.2]
¾" NPT · SIN TY5237



K=160 [11.2] · ¾" NPT · TFP220							
Part No.		Temp.		Finish Code	Approvals & Listings		
Upright SIN TY5137	Pendent SIN TY5237	°C	°F		FM	UL	PAVUS
518941135	518931135	57	[135]	1	√ *	√	√
518941155	518931155	68	[155]	1	√ *	√	√
518941175	518931175	79	[175]	1	√ * †	√	√
518941200	518931200	93	[200]	1	❍ †	√	√
518941286	518931286	141	[286]	1	❍ †	√ ♦ †	√
518941000	518931000	Open		1	-	-	√
518944135	518934135	57	[135]	4	√ *	√	√
518944155	518934155	68	[155]	4	√ *	√	√
518944175	518934175	79	[175]	4	√ * †	√	√
518944200	518934200	93	[200]	4	❍ †	√	√
518944286	518934286	141	[286]	4	❍ †	√ ♦ †	√
518944000	518934000	Open		4	-	-	√
518945155	518935155	68	[155]	5	√ *	√	√
518945200	518935200	93	[200]	5	√ *	√	√
518947135	518937135	57	[135]	7	√ *	√ †	√
518947155	518937155	68	[155]	7	√ *	√ †	√
518947175	518937175	79	[175]	7	√ * ♦ †	√ †	√
518947200	518937200	93	[200]	7	❍ †	√ †	√
518947286	518937286	141	[286]	7	❍ †	√ ♦ †	√
518947000	518937000	Open		7	-	-	√
518949135	518939135	57	[135]	9	√ *	√	√
518949155	518939155	68	[155]	9	√ *	√	√
518949175	518939175	79	[175]	9	√ * †	√	√
518949200	518939200	93	[200]	9	❍ †	√	√
518949286	518939286	141	[286]	9	❍ †	√ ♦ †	√
518949000	518939000	Open		9	-	-	√

√=Approved
* Pendent Only for Light Hazard
♦ Light Hazard Only
† Recessed Pendent Not Approved
❍ Ordinary Hazard Only

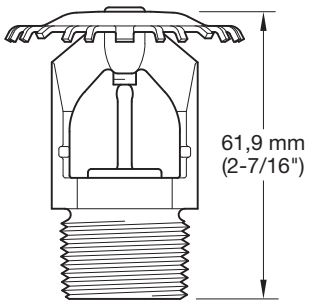
Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

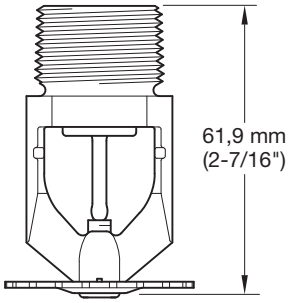
Extended Coverage Sprinklers

EC-14, K=200 (14.0), ¾" NPT

Upright • K=200 [14.0]
¾" NPT • SIN TY6137



Pendent • K=200 [14.0]
¾" NPT • SIN TY6237



K=200 [14.0] • ¾" NPT • TFP220								
Part No.		Temp.		Finish Code	Approvals & Listings			
Upright SIN TY6137	Pendent SIN TY6237	°C	°F		FM	UL	PAVUS	Fire Academy of Russia
518961135	518951135	57	[135]	1	√ *	√	√	√
518961155	518951155	68	[155]	1	√ *	√	√	√
518961175	518951175	79	[175]	1	√ * †	√	√	√
518961200	518951200	93	[200]	1	❍ †	√	√	√
518961286	518951286	141	[286]	1	❍ †	√ ♦ †	√	√
518961000	518951000	Open		1	-	-	√	√
518964135	518954135	57	[135]	4	√ *	√	√	√
518964155	518954155	68	[155]	4	√ *	√	√	√
518964175	518954175	79	[175]	4	√ * †	√	√	√
518964200	518954200	93	[200]	4	❍ †	√	√	√
518964286	518954286	141	[286]	4	❍ †	√ ♦ †	√	√
518964000	518954000	Open		4	-	-	√	√
518965155	518955155	68	[155]	5	√ *	√	√	√
518965200	518955200	93	[200]	5	√ *	√	√	√
518967135	518957135	57	[135]	7	√ *	√ †	√	√
518967155	518957155	68	[155]	7	√ *	√ †	√	√
518967175	518957175	79	[175]	7	√ * ♦ †	√ †	√	√
518967200	518957200	93	[200]	7	❍ †	√ †	√	√
518967286	518957286	141	[286]	7	❍ †	√ ♦ †	√	√
518967000	518957000	Open		7	-	-	√	√
518969135	518959135	57	[135]	9	√ *	√	√	√
518969155	518959155	68	[155]	9	√ *	√	√	√
518969175	518959175	79	[175]	9	√ * †	√	√	√
518969200	518959200	93	[200]	9	❍ †	√	√	√
518969286	518959286	141	[286]	9	❍ †	√ ♦ †	√	√
518969000	518959000	Open		9	-	-	√	√

√=Approved
* Pendent Only for Light Hazard
♦ Light Hazard Only
† Recessed Pendent Not Approved
❍ Ordinary Hazard Only

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

EC-8

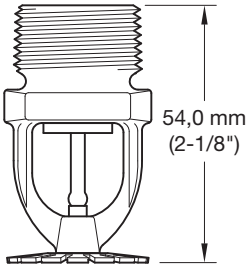
Pendent & Recessed Pendent

K Factor	K= 115 (8.0)
Thread Size	¾" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F)
Escutcheon	Style 30 • Style 40
Escutcheon Finish	Natural Brass, Signal White, Chrome Plated
Sprinkler Finish	Natural Brass, Signal White Polyester, Chrome Plated
SIN	TY4232
Wrench Type	W-TYPE 3 / W-TYPE 23 (for recessed escutcheons)
Tech Data Sheet	**TFP223**

Light hazard ■ 3 mm bulb ■ Covers areas as large as 6,1 m x 6,1 m (20' x 20') ■ The recessed version of the EC-8, intended for use in areas with a finished ceiling, uses either of the two-piece Recessed Escutcheon ■ The Series EC-8 Extended Coverage Pendent Sprinklers are decorative glass bulb sprinklers designed for use in light hazard occupancies

EC-8, K=115 (8.0), ¾" NPT

Pendent • K=115 [8.0]
¾" NPT • SIN TY4232



K=115 [8.0] • ¾" NPT • TFP223					
Part No.	Temp.		Finish Code	Approvals & Listings	
Pendent SIN TY4232	°C	°F		FM	UL
508011135	57	[135]	1	√	√
508011155	68	[155]	1	-	√
508014135	57	[135]	4	√ ‡	√
508014155	68	[155]	4	-	√
508019135	57	[135]	9	√ ‡	√
508019155	68	[155]	9	-	√

√=Approved
‡ Recessed Pendent Style 30 Escutcheon only is Approved
† Recessed Pendents Not Approved

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

EC-8C

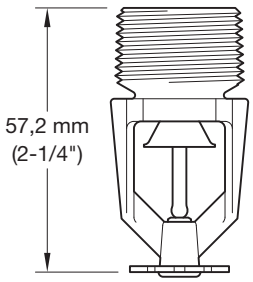
Pendent & Recessed Pendent

K Factor	K= 115 (8.0)
Thread Size	3/4" NPT
Approvals	UL
Temperature	68°C/155°F, 93°C/200°F
Escutcheon	Style 30 · Style 40
Escutcheon Finish	Natural Brass, Signal White, Pure White, Jet Black, Chrome Plated
Sprinkler Finish	Natural Brass, Signal White, Pure White, Jet Black, Chrome Plated
SIN	TY4282
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP226**

Light hazard ■ 3 mm bulb ■ Specifically designed for use in long, narrow spaces such as corridors or hallways with a maximum coverage area of 8,5 m x 3,1 m (28' by 10') ■ The recessed version of the EC-8C, intended for use in areas with a finished ceiling, uses either the two-piece Recessed Escutcheon ■ The Series EC-8C Extended Coverage Pendent Sprinklers are decorative glass bulb sprinklers designed for use in light hazard occupancies.

EC-8C, K=115 (8.0), ¾" NPT

Pendent · K=115 [8.0]
¾" NPT · SIN TY4282



K=115 [8.0] · ¾" NPT · TFP223				
Part No.	Temp.		Finish Code	Approvals & Listings
Pendent SIN TY4282	°C	°F		UL
573511155	68	[155]	1	√
573511200	93	[200]	1	√
573513155	68	[155]	3	√
573513200	93	[200]	3	√
573514155	68	[155]	4	√
573514200	93	[200]	4	√
573515155	68	[155]	5	√
573515200	93	[200]	5	√
573519155	68	[155]	9	√
573519200	93	[200]	9	√

√=Approved

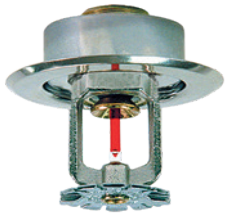
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

EC-5

Pendent & Recessed Pendent

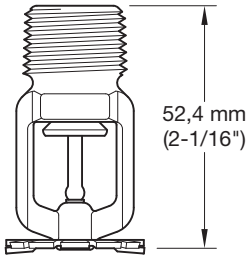


K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F)
Escutcheon	Style 50
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White Polyester
SIN	TY3232
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP228**

Light hazard ■ 3 mm bulb ■ Coverage up to 6,1 m x 6,1 m (20' x 20')

EC-5, K=80 (5.6), 1/2" NPT

Pendent · K=80 [5.6]
1/2" NPT · SIN TY3232



K=80 [5.6] · 1/2" NPT · TFP228					
Part No.	Temp.		Finish Code	Approvals & Listings	
Pendent SIN TY3232	°C	°F		FM	UL
510511135	57	[135]	1	-	√
510511155	68	[155]	1	√	√
510513135	57	[135]	3	-	√
510513155	68	[155]	3	√	√
510514135	57	[135]	4	-	√
510514155	68	[155]	4	√	√
510519135	57	[135]	9	-	√
510519155	68	[155]	9	√	√

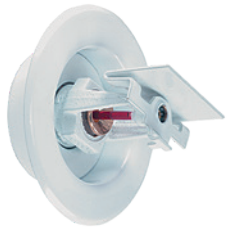
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

EC-5

Horizontal Sidewall & Recessed Horizontal Sidewall

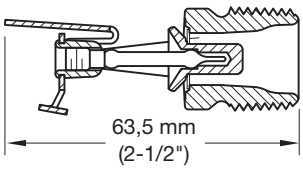


K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F), 93°C (200°F)
Escutcheon	Style 50
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Signal White, Pure White, Natural Brass, Chrome Plated
SIN	TY3302
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP298**

Light hazard ■ 3 mm bulb ■ Coverage up to 4,9 m x 7,3 m (16' x 24') ■ Designed for use in hydraulically calculated sprinkler systems in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

EC-5, K=80 (5.6), 1/2" NPT

Horizontal Sidewall · K=80 [5.6]
1/2" NPT · SIN TY3302



K=80 [5.6] · 1/2" NPT · TFP298					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY3302	°C	°F		FM	UL
510531135	57	[135]	1	-	√
510531155	68	[155]	1	√	√
510531200	93	[200]	1	-	√
510533135	57	[135]	3	-	√
510533155	68	[155]	3	√	√
510533200	93	[200]	3	-	√
510534135	57	[135]	4	-	√
510534155	68	[155]	4	√	√
510534200	93	[200]	4	-	√
510539135	57	[135]	9	-	√
510539155	68	[155]	9	√	√
510539200	93	[200]	9	-	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

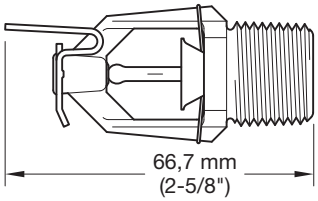
Horizontal Sidewall & Recessed Horizontal Sidewall

K Factor	K= 80 (5.6) • K= 115 (8.0)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F)
Escutcheon	Style 10 • Style 20 • Style 30 • Style 40
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Pure White, Signal White, Jet Black, Chrome Plated
SIN	TY3332, TY4332
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	**TFP296**

Light hazard ■ 3 mm bulb ■ Two-piece escutcheon converts sidewall sprinklers into low profile sprinkler assemblies with coverage areas up to 4,9 m x 6,7 m (16' x 22') for K=5.6 and 4,9 m x 7,3 m (16' x 24') for K=8.0 ■ Provides 19,1 mm NPT (3/4") of horizontal adjustment from the recessed sidewall position ■ Quick & Standard Response (see tech data sheet) ■ Decorative sprinklers designed for use in hydraulically calculated sprinkler systems in light hazard, commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

TY-FRB, K=80 (5.6), 1/2" NPT

Horizontal Sidewall • K=80 [5.6]
1/2" NPT • SIN TY3332



K=80 [5.6] • 1/2" NPT • TFP296												
Part No.	Temp.		Finish Code	Approvals & Listings							
HSW SIN TY3332	°C	°F		FM	UL	PAVUS	Ukrainian	Belarusian	Fire Academy of Russia	VKF	TSU
573761135	57	[135]	1	√ ‡	√	√	√	√	√	√	√
573761155	68	[155]	1	√ ‡	√	√	√	√	√	√	√
573761175	79	[175]	1	√ ‡	√	√	√	√	√	√	√
573763135	57	[135]	3	√ ‡	√	√	√	√	√	√	√
573763155	68	[155]	3	√ ‡	√	√	√	√	√	√	√
573763175	79	[175]	3	√ ‡	√	√	√	√	√	√	√
573764135	57	[135]	4	√ ‡	√	√	√	√	√	√	√
573764155	68	[155]	4	√ ‡	√	√	√	√	√	√	√
573764175	79	[175]	4	√ ‡	√	√	√	√	√	√	√
573765135	57	[135]	5	√ ‡	√	√	√	√	√	√	√
573765155	68	[155]	5	√ ‡	√	√	√	√	√	√	√
573765175	79	[175]	5	√ ‡	√	√	√	√	√	√	√
573769135	57	[135]	9	√ ‡	√	√	√	√	√	√	√
573769155	68	[155]	9	√ ‡	√	√	√	√	√	√	√
573769175	79	[175]	9	√ ‡	√	√	√	√	√	√	√

√=Approved
‡ Recessed Style 10 Escutcheon Not Approved

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

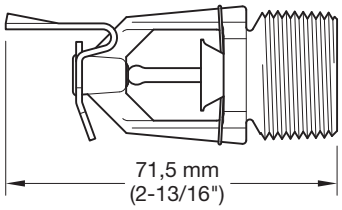
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

TY-FRB - Horizontal Sidewall & Recessed Horizontal Sidewall

TY-FRB, K=115 (8.0), ¾" NPT

Horizontal Sidewall • K=115 [8.0]
¾" NPT • SIN TY4332



K=115 [8.0] • ¾" NPT • TFP296									
Part No.	Temp.		Finish Code						
HSW SIN TY4332	°C	°F		FM	UL	PAVUS	Belarusian	Fire Academy of Russia	TSU
573961135	57	[135]	1	√ ‡	√	√	√	√	√
573961155	68	[155]	1	√ ‡	√	√	√	√	√
573961175	79	[175]	1	√	√	√	√	√	√
573963135	57	[135]	3	√ ‡	√	√	√	√	√
573963155	68	[155]	3	√ ‡	√	√	√	√	√
573963175	79	[175]	3	√	√	√	√	√	√
573964135	57	[135]	4	√ ‡	√	√	√	√	√
573964155	68	[155]	4	√ ‡	√	√	√	√	√
573964175	79	[175]	4	√	√	√	√	√	√
573965135	57	[135]	5	√ ‡	√	√	√	√	√
573965155	68	[155]	5	√ ‡	√	√	√	√	√
573965175	79	[175]	5	√	√	√	√	√	√
573969135	57	[135]	9	√ ‡	√	√	√	√	√
573969155	68	[155]	9	√ ‡	√	√	√	√	√
573969175	79	[175]	9	√	√	√	√	√	√

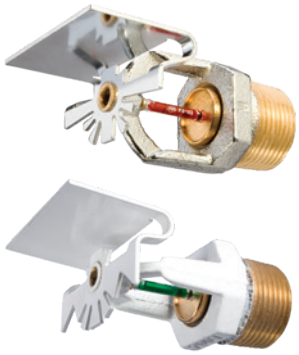
√=Approved
‡ Recessed Style 40 Escutcheon Not Approved

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ELO SW-20/SW-24

Horizontal Sidewall

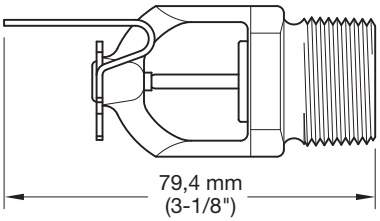


K Factor	K= 161 (11.2)
Thread Size	¾" NPT
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F), 93°C (200°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5332, TY5337
Wrench Type	W-TYPE 3
Tech Data Sheet	**TFP230**

Extended Coverage Ordinary Hazard (ECOH) ■ 3 mm bulb ■ SW-20 Listed to a 4,9 m (16'-0") wide and a 6,1 m (20'-0") throw maximum coverage area, SW-24 Listed to a 4,9 m (16'-0") wide and a 7,3 m (24'-0") throw maximum coverage area ■ Standard Response, Extended Coverage Ordinary Hazard (ECOH) Horizontal Sidewall Sprinklers are decorative glass bulb sprinklers designed for use in ordinary hazard occupancies per NFPA 13

ELO SW-20, K=161 (11.2), ¾" NPT

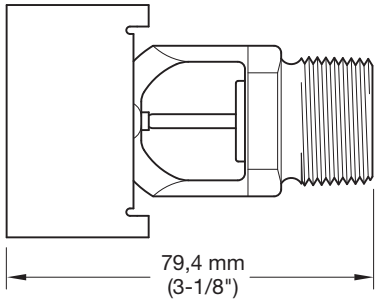
Horizontal Sidewall · K=161 [11.2]
¾" NPT · SIN TY5332



K=161 [11.2] · ¾" NPT · TFP230				
Part No.	Temp.			Approvals & Listings
HSW SIN TY5332	°C	°F	Finish Code	UL
510721155	68	[155]	1	√
510721200	93	[200]	1	√
510724155	68	[155]	4	√
510724200	93	[200]	4	√
510729155	68	[155]	9	√
510729200	93	[200]	9	√

ELO SW-24, K=161 (11.2), ¾" NPT

Horizontal Sidewall · K=161 [11.2]
¾" NPT · SIN TY5337



K=161 [11.2] · ¾" NPT · TFP230				
Part No.	Temp.			Approvals & Listings
HSW SIN TY5337	°C	°F	Finish Code	UL
510731200	93	[200]	1	√
510734200	93	[200]	4	√
510739200	93	[200]	9	√

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Extended Coverage Sprinklers

TY-FRL

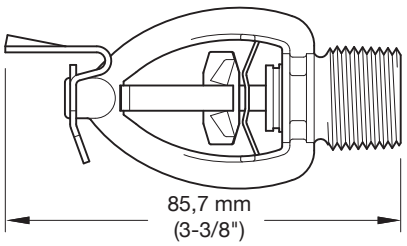
Horizontal Sidewall

K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	74°C (165°F)
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3322, TY4322
Wrench Type	W-TYPE 9
Tech Data Sheet	**TFP280**

Light hazard ■ Solder type ■ Coverage up to 4,9 m (16 feet) wide by 7,3 m (24 feet) long, they are designed for installation along a wall or the side of a beam and just beneath a smooth, flat, horizontal ceiling ■ Designed for use in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

TY-FRL, K=80 (5.6), 1/2" NPT

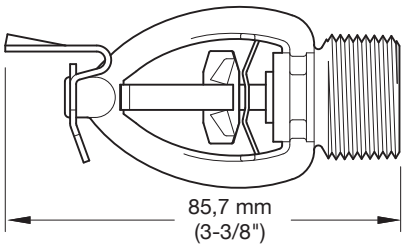
Horizontal Sidewall · K=80 [5.6]
1/2" NPT · SIN TY3322



K=80 [5.6] · 1/2" NPT · TFP280					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY3322	°C	°F		FM	UL
589701165	74	[165]	1	√	√
589709165	74	[165]	9	√	√

TY-FRL, K=115 (8.0), 3/4" NPT

Horizontal Sidewall · K=115 [8.0]
3/4" NPT · SIN TY4322



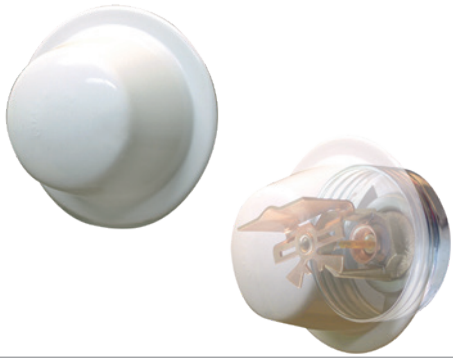
K=115 [8.0] · 3/4" NPT · TFP280					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY4322	°C	°F		FM	UL
581701165	74	[165]	1	√	√
581709165	74	[165]	9	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CHEC

Concealed Horizontal Extended Coverage Sidewall

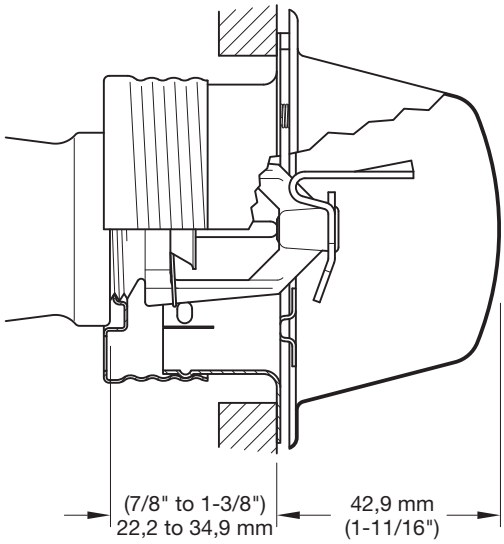


K Factor	K= 115 (8.0)
Thread Size	¾" NPT
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate
Cover Plate Finish	Signal White, Pure White, Chrome, Custom
SIN	TY4332
Wrench Type	W-TYPE 7
Tech Data Sheet	**TFP265**

Light hazard ■ 3 mm bulb ■ Coverage up to 4,9 m x 4,9 m (16' x 16') ■ Lowest flows & pressures allowed by NFPA 13 ■ 12,7 mm (½") adjustment ■ 12" maximum deflector distance from ceiling ■ No "Slots" in cover plate ■ It is the best choice for architecturally sensitive areas such as dormitories, hotel rooms, reception areas, office buildings, banquet facilities, conference rooms, and hospitals.

CHEC, K=115 (8.0), ¾" NPT

Horizontal Sidewall · K=115 [8.0]
¾" NPT · SIN TY4332



K=115 [8.0] · ¾" NPT · TFP265						
Part No.	Temp.		Finish Code	Approvals & Listings		
HSW SIN TY4332	°C	°F		UL	Belarusian	Fire Academy of Russia
513963155	68	[155]	3	√	√	√

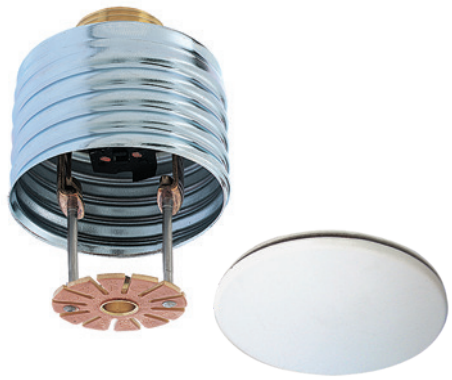
Cover Plate			
Part No.	Temp.		Cover Plate Finish
Cover Plate	°C	°F	
563963135	59	139	Pure White (RAL9010)
563964135	59	139	Signal White (RAL9003)
563969135	59	139	Chrome
56396X135	59	139	Custom

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

ELOC

Extra Large Orifice Concealed Pendent

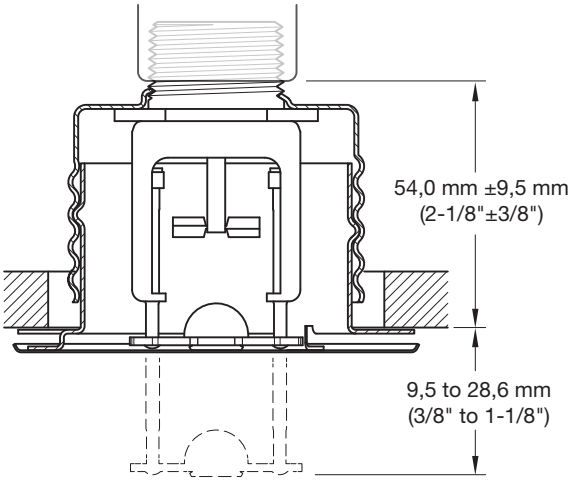


K Factor	K= 161 (11.2)
Thread Size	¾" NPT
Approvals	UL, C-UL, NYC
Temperature	71°C (160°F) – Sprinkler - 59°C (139°F) – Cover Plate, 100°C (212°F) – Sprinkler - 74°C (165°F) – Cover Plate
Cover Plate Finish	Chrome Plated, Brass Plated, Signal White, Grey White, Custom
SIN	TY5522
Wrench Type	W-TYPE 18
Tech Data Sheet	**TFP250**

Light hazard ■ Extra Large Orifice Concealed (ELOC) Pendent Sprinklers are decorative, fast response solder type sprinklers featuring a flat cover plate designed to conceal the sprinkler ■ Covers 37,2 m² (400 sq. ft.) using less pressure than a standard 12,7 mm (½") sprinkler at 20,3 m² (225 sq. ft.) ■ Available with optional dust and air seal ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration.

ELOC, K=161 (11.2), ¾" NPT

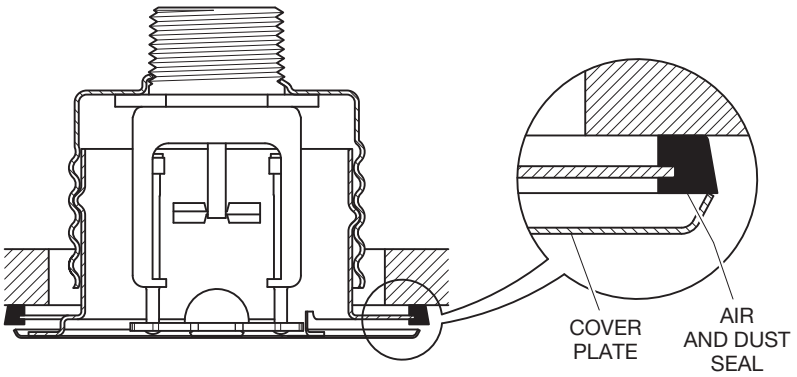
Concealed Pendent • K=161 [11.2]
¾" NPT • SIN TY5522



K=161 [11.2] • ¾" NPT • TFP250				
Part No.	Temp.		Finish Code	Approvals & Listings
SIN TY5522	°C	°F		UL
507011160	71	[160]	1	√
507011212	100	[212]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
568921135	59	139	68°C, 155°F	Brass
568921165	74	165	93°C, 200°F	Brass
568920135	59	139	68°C, 155°F	Grey White (RAL9002)
568920165	74	165	93°C, 200°F	Grey White (RAL9002)
568923135	59	139	68°C, 155°F	Pure White (RAL9010)
568923165	74	165	93°C, 200°F	Pure White (RAL9010)
568924135	59	139	68°C, 155°F	Signal White (RAL9003)
568924135	74	165	93°C, 200°F	Signal White (RAL9003)
568929135	59	139	68°C, 155°F	Chrome
568929165	74	165	93°C, 200°F	Chrome
56892X135	59	139	68°C, 155°F	Custom
56892X165	74	165	93°C, 200°F	Custom

Clean Room Seal



Clean Room Seal	
Part No.	Approvals & Listings
	UL
569081001	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RFII

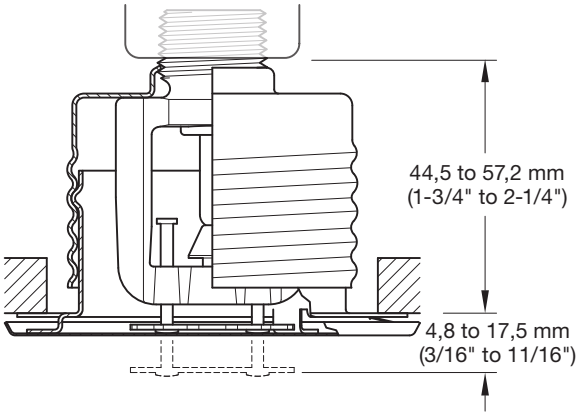
Concealed Pendent

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F) - Sprinkler 59°C (139°F) - Cover Plate, 93°C (200°F) - Sprinkler 74°C (165°F) - Cover Plate
Cover Plate Finish	Chrome, Brass, Pure White, Signal White, Grey White, Jet Black, Custom
SIN	TY3532
Wrench Type	RFII
Tech Data Sheet	**TFP260**

Light hazard ■ 3 mm bulb ■ Maximum 6,1 m x 6,1 m (20' x 20') QR Listing ■ Internally threaded closure with 12,7 mm (1/2") of adjustment ■ Separable, two-piece design of the mounting cup and cover allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration.

RFII, K=80 (5.6), 1/2" NPT or ISO

Concealed Pendent · K=80 [5.6]
1/2" NPT · SIN TY3532



K=80 [5.6] · 1/2" NPT · TFP260				
Part No.	Temp.		Finish Code	Approvals & Listings
RFII SIN TY3532	°C	°F		UL
517941155	68	[155]	1	√
517941200	93	[200]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
567921135	59	139	68°C, 155°F	Brass
567921165	74	165	93°C, 200°F	Brass
567920135	59	139	68°C, 155°F	Grey White (RAL9002)
567920165	74	165	93°C, 200°F	Grey White (RAL9002)
567923135	59	139	68°C, 155°F	Pure White (RAL9010)
567923165	74	165	93°C, 200°F	Pure White (RAL9010)
567924135	59	139	68°C, 155°F	Signal White (RAL9003)
567924165	74	165	93°C, 200°F	Signal White (RAL9003)
567926135	59	139	68°C, 155°F	Jet Black (RAL9005)
597926165	74	165	93°C, 200°F	Jet Black (RAL9005)
567929135	59	139	68°C, 155°F	Chrome
567929165	74	165	93°C, 200°F	Chrome
56792X135	59	139	68°C, 155°F	Custom
56792X165	74	165	93°C, 200°F	Custom

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Extended Coverage Sprinklers

RFII-MRI

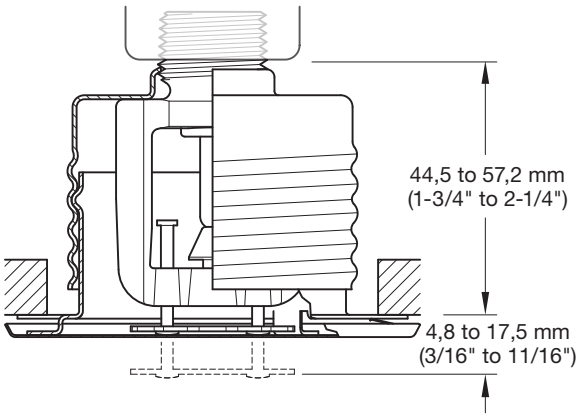
Concealed Pendent

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	68°C (155°F) - Sprinkler 59°C (139°F) - Cover Plate, 93°C (200°F) - Sprinkler 74°C (165°F) - Cover Plate
Cover Plate Finish	Brass, Signal White, Grey White, Jet Black, Custom
SIN	TY3537
Wrench Type	RFII
Tech Data Sheet	**TFP262**

Non-magnetic flat-plate concealed sprinkler for MRI room applications ■ Tested up to 7 Tesla (standard MRI apparatus is typically 3 Tesla) ■ Concealed in an enclosed escutcheon plate with flat cover ■ Separable, two-piece design of the mounting cup and cover allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling ■ Internally threaded closure with 12,7 mm (1/2") of adjustment ■ Extended coverage option designed to protect standardised MRI rooms with fewer sprinklers (up to 5 fewer than standard coverage) ■ Maximum 6,1 m x 6,1 m (20' x 20') QR Listing

RFII-MRI, K=80 (5.6), 1/2" NPT

Concealed Pendent · K=80 [5.6]
1/2" NPT · SIN TY3537



K=80 [5.6] · 1/2" NPT · TFP262				
Part No.	Temp.		Finish Code	Approvals & Listings
RFII-MRI SIN TY3537	°C	°F		UL
518021155	68	[155]	1	√
518021200	93	[200]	1	√

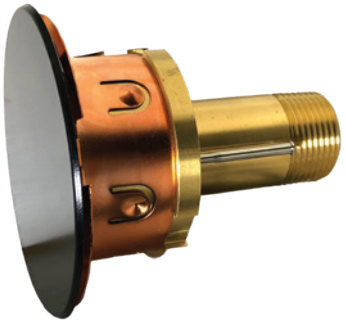
Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
567941135	59	139	68°C, 155°F	Brass
567941165	74	165	93°C, 200°F	Brass
567940135	59	139	68°C, 155°F	Grey White (RAL9002)
567940165	74	165	93°C, 200°F	Grey White (RAL9002)
567944135	59	139	68°C, 155°F	Signal White (RAL9003)
567944165	74	165	93°C, 200°F	Signal White (RAL9003)
567946135	59	139	68°C, 155°F	Jet Black (RAL9005)
597946165	74	165	93°C, 200°F	Jet Black (RAL9005)
56794X135	59	139	68°C, 155°F	Custom
56794X165	74	165	93°C, 200°F	Custom

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RFIII

Flat Plate Concealed Horizontal Extended Coverage Sidewall

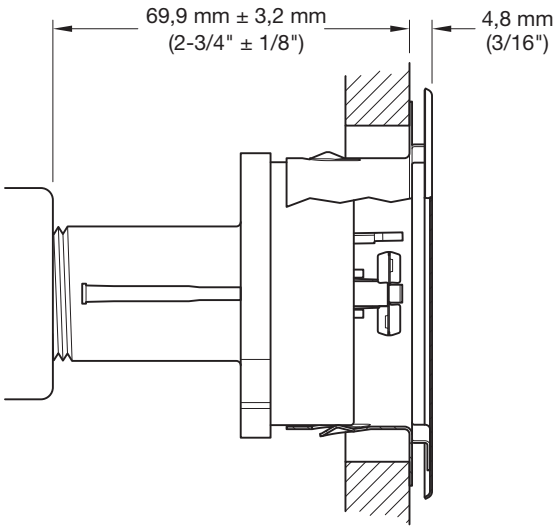


K Factor	K= 115 (8.0)
Thread Size	¾" NPT
Approvals	UL, C-UL
Temperature	71°C (160°F) - Sprinkler 59°C (139°F) - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Chrome, Brushed Brass, Custom Paint
SIN	TY4522
Wrench Type	W-Type 37
Tech Data Sheet	**TFP270**

Light hazard ■ Decorative, link type, sprinkler featuring a unique flat cover designed to conceal the sprinkler within a wall ■ The sprinkler is the best choice for architecturally sensitive areas such as dormitories, hotel rooms, reception areas, office buildings, banquet facilities, conference rooms, and hospitals ■ The Model RFIII ECLH Concealed HSW Sprinklers are designed for installation along a wall or the side of a beam, and beneath a smooth level ceiling.

RFIII, K=115 (8.0), ¾" NP

Concealed Pendent • K=115 [8.0]
¾" NPT • SIN TY4522



K=115 [8.0] • ¾" NPT • TFP270				
Part No.	Temp.			Approvals & Listings
RFIII SIN TY4522	°C	°F	Finish Code	UL
511131160	71	[160]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
562040135	59	139	71°C, 160°F	Ivory (RAL1015)
562042135	59	139	71°C, 160°F	Beige (RAL1001)
562043135	59	139	71°C, 160°F	Pure White (RAL9010)
562044135	59	139	71°C, 160°F	Signal White (RAL9003)
562045135	59	139	71°C, 160°F	Grey White (RAL9002)
562046135	59	139	71°C, 160°F	Brown (RAL8028)
562047135	59	139	71°C, 160°F	Black (RAL9005)
562048135	59	139	71°C, 160°F	Brushed Brass
562049135	59	139	71°C, 160°F	Brushed Chrome
56204X135	59	139	71°C, 160°F	Custom Paint

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

Intended for use in specific storage applications and include a broad offering of early suppression fast response (ESFR) sprinklers.

- High-Piled Storage
- Warehouse
- Box-In-Box Cold Storage
- High Challenge Occupancies
- In-Rack Storage
- Beneath Open Gridded Catwalks

ESFR-34

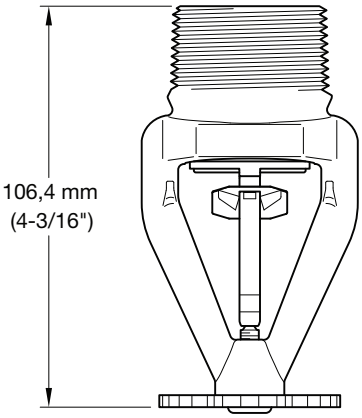
Pendent

K Factor	K= 480 (33.6)
Thread Size	1-1/4" NPT or ISO 7-R1-1/4
Approvals	FM
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY9286
Wrench Type	W-TYPE 26
Tech Data Sheet	**TFP338**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ Suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage.

ESFR-34, K=480 (33.,6), 1-1/4" ISO or NPT

Upright • K=480 [33.6]
1-1/4" NPT or ISO • SIN TY9286



K=480 [33.6] • 1-1/4" NPT or ISO 7-R1 • TFP338					
Upright Part No.		Temperature		Finish Code	Approvals & Listings
1-1/4" NPT SIN TY9286	ISO 7-R1-1/4 SIN TY9286	°C	°F		FM
516811165	516821165	74	[165]	1	√
516811212	516821212	100	[212]	1	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

EC-25

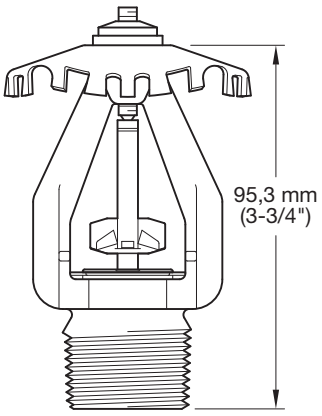
Upright

K Factor	K= 363 (25.2)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM, NYC
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY9128
Wrench Type	W-TYPE 1
Tech Data Sheet	**TFP213**

For use in high density applications such as "big box" retailing, extra hazard, and high-piled storage occupancies ■ Solder type ■ CMDA and CMSA Applications and FM Approved for storage and non-storage applications ■ Minimum operating pressure of 0,48 bar (7 psi) ■ The maximum coverage area per sprinkler is 18,2 m² (196 ft.²), which is almost double the area offered by standard coverage sprinklers used for similar applications.

EC-25, K=363 (25.2), 1" ISO or NPT

Upright • K=363 [25.2]
1" NPT or ISO • SIN TY9128



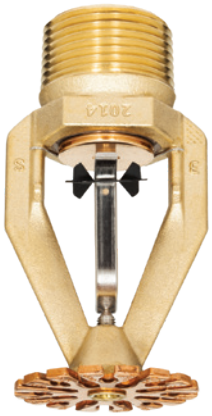
K=363 [25.2] • 1" NPT or ISO 7-R1 • TFP213								
Upright Part No.		Temperature		Finish Code	Approvals & Listings			
1" NPT SIN TY9128	1" ISO 7-R1 SIN TY9128	°C	°F		FM	UL	PAVUS	Fire Academy of Russia
584501165	584511165	74	[165]	1	√	√	√	√
584501214	584511214	100	[212]	1	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ESFR-25

Pendent

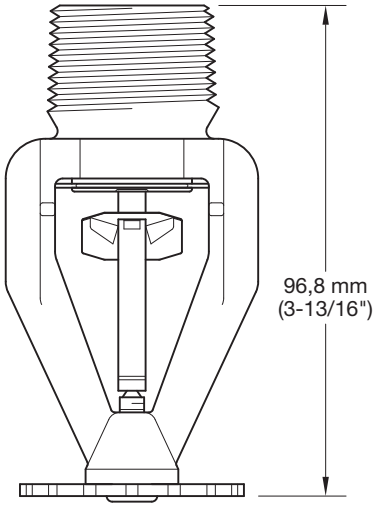


K Factor	K= 363 (25.2)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM, NYC, LPCB, VdS, CE
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY9226
Wrench Type	W-TYPE 1
Tech Data Sheet	**TFP312**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ The TYCO Model ESFR-25 Pendent Sprinklers are listed by UL for Specific Applications with a ceiling height greater than 13,7 m (45 ft.) up to and including 14,6 m (48 ft.), and a storage arrangement up to and including 13,1 m (43 ft.) ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ Patented frame design substantially reduces the frame shadow effects that often produce non-uniformity in spray pattern, novel orifice seal and unique fast response link design are the very latest in sprinkler technology ■ Suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage.

ESFR-25, K=363 (25.2), 1" ISO or NPT

Pendent · K=363 [25.2]
1" NPT or ISO · SIN TY9226



K=363 [25.2] · 1" ISO or NPT · TFP312																
Pendent Part No.		Temp.		Finish Code	Approvals & Listings											
1" NPT SIN TY9226	1" ISO 7-R1 SIN TY9226	°C	°F		CE	VdS	LPCB	FM	UL	CE	CNBOP	PAVUS	Ukrainian	Belarusian	Fire Academy of Russia	T/S/U
584411165	584421165	74	[165]	1	√	√	√	√	√	√	√	√	√	√	√	√
584411214	584421214	100	[212]	1	√	√	√	√	√	√	√	√	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ESFR-22

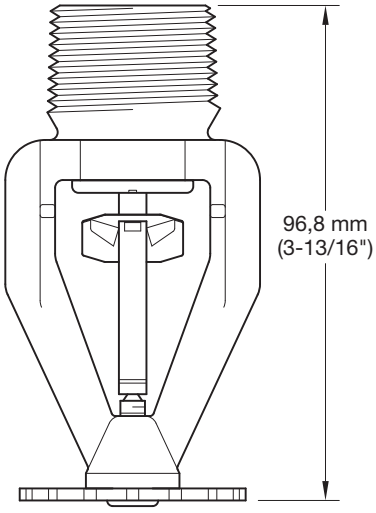
Pendent

K Factor	K= 320 (22.4)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY8223
Wrench Type	W-TYPE 1
Tech Data Sheet	**TFP321**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ The TYCO Model ESFR-22 Pendent Sprinklers are listed by UL and C-UL for Specific Applications with a ceiling height of 13,7 m (45 ft.) and a storage arrangement up to and including 12,2 m (40 ft.)

ESFR-22, K=320 (22.4), 1" ISO or NPT

Pendent • K=320 [22.4]
1" NPT or ISO • SIN TY8223



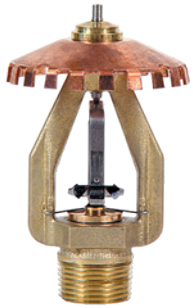
K=320 [22.4] • 1" NPT • TFP321						
Pendent Part No.		Temp.		Finish Code	Approvals & Listings	
1" NPT SIN TY8223	1" ISO SIN TY8223	°C	°F		FM	UL
584641165	584651165	74	[165]	1	√	√
584641212	584651212	100	[212]	1	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ESFR-17

Upright

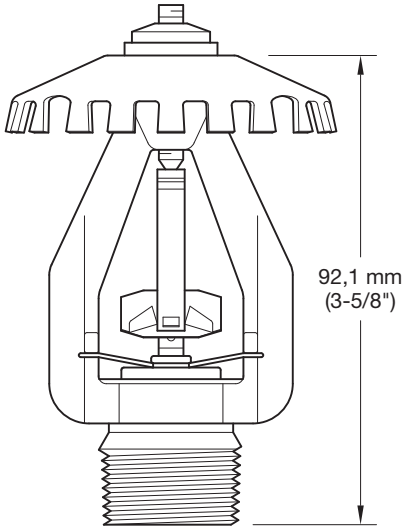


K Factor	K= 242 (16.8)
Thread Size	¾" NPT or ISO 7-1
Approvals	FM, CE
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY7126
Wrench Type	W-TYPE 21
Tech Data Sheet	**TFP316**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Unique, upright design and large K-Factor overcome many pendent obstruction problems ■ Use of this sprinkler is especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting rack storage arrangements, Primarily designed for use in ceiling only sprinkler systems.

ESFR-17, K=242 (16.8), ¾" ISO or NPT

Upright • K=242 [16.8]
¾" NPT or ISO • SIN TY7126



K=242 [16.8] • ¾" NPT or ISO 7-1 • TFP316																
Upright Part No.		Temp.		Finish Code	Approvals & Listings											
¾" NPT SIN TY7126	¾" ISO 7-1 SIN TY7126	°C	°F1s		CE	VdS	LPCB	FM	UL	CE	CNBOP	PAVUS	Ukrainian	Belarusian	Fire Academy of Russia	T/S/U
584471165	584481165	74	[165]	1	√	√	√	√	√	√	√	√	√	√	√	√
584471214	584481214	100	[212]	1	√	√	√	√	√	√	√	√	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ESFR-17

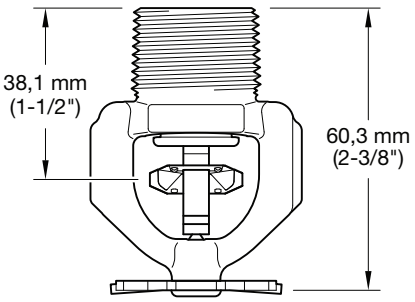
Pendent

K Factor	K= 242 (16.8)
Thread Size	3/4" NPT
Approvals	UL, C-UL, FM
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY7223
Wrench Type	W-TYPE 35
Tech Data Sheet	**TFP317**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Primarily designed for use in ceiling only sprinkler systems ■ Model ESFR-17 Pendent Sprinklers are designed to operate at substantially lower-end head pressures, as compared to ESFR Sprinklers having a nominal K-factor of 14.0 ■ They are suppression mode sprinklers that are especially advantageous as a means of eliminating in-rack sprinklers when protecting high-piled storage.

ESFR-17, K=242 (16.8), ¾" ISO or NPT

Pendent • K=242 [16.8]
¾" NPT or ISO • SIN TY7223



K=242 [16.8] • ¾" NPT • TFP317						
Pendent Part No.		Temp.		Finish Code	Approvals & Listings	
¾" NPT SIN TY7223	¾" ISO SIN TY7223	°C	°F		FM	UL
584571165	584581165	74	[165]	1	√	√
584571214	584581214	100	[212]	1	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

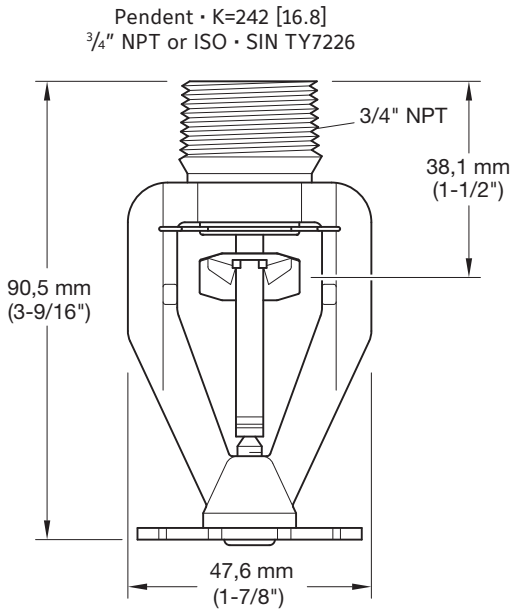
ESFR-17

Pendent

K Factor	K= 242 (16.8)
Thread Size	¾" NPT or ISO 7-1
Approvals	FM, VdS, LPCB, CE
Temperature	74°C (165°F), 101°C (214°F)
Sprinkler Finish	Natural Brass
SIN	TY7226
Wrench Type	W-TYPE 21
Tech Data Sheet	**TFP315**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Primarily designed for use in ceiling only sprinkler systems ■ Model ESFR-17 Pendent Sprinklers are designed to operate at substantially lower-end head pressures, as compared to ESFR Sprinklers having a nominal K-factor of 201,6 (14.0) ■ They are suppression mode sprinklers that are especially advantageous as a means of eliminating in-rack sprinklers when protecting high-piled storage.

ESFR-17, K=242 (16.8), ¾" ISO or NPT



K=242 [16.8] · ¾" NPT or ISO 7-1 · TFP315															
Pendent Part No.		Temp.		Finish Code	Approvals & Listings										
¾" NPT SIN TY7226	¾" ISO 7-1 SIN TY7226	°C	°F		FM	CE	VdS	CNBOP	PAVUS	Ukrainian	Belarusian	LPCB	TSU	Fire Academy of Russia
584451165	584461165	74	[165]	1	√	√	√	√	√	√	√	√	√	√
584451214	584461214	101	[214]	1	√	√	√	√	√	√	√	√	√	√

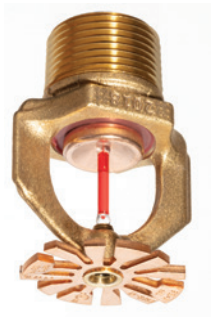
Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ESFR-17

Pendent

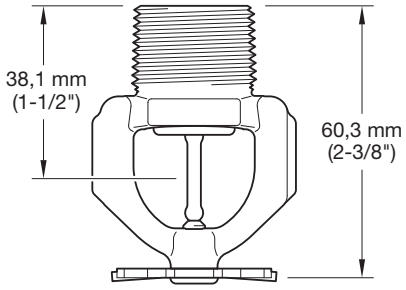


K Factor	K= 242 (16.8)
Thread Size	3/4" NPT or ISO 7-R 3/4
Approvals	UL, C-UL, FM
Temperature	68°C (155°F), 93°C (200°F)
Sprinkler Finish	Natural Brass
SIN	TY7236
Wrench Type	W-TYPE 35
Tech Data Sheet	**TFP322**

Early Suppression, Fast Response (ESFR) ■ 3mm bulb type ■ Primarily designed for use in ceiling only sprinkler systems ■ Use of this sprinkler is especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting rack storage arrangements ■ Available in two temperature ratings and Listed or Approved accordingly; 68°C (155°F) is UL and C-UL Listed and FM Approval; and 93°C (200°F) is UL and C-UL Listing only.

ESFR-17, K=242 (16.8), ¾" ISO or NPT

Pendent • K=242 [16.8]
¾" NPT or ISO • SIN TY7236



K=242 [16.8] • ¾" NPT • TFP322						
Pendent Part No.		Temp.		Finish Code	Approvals & Listings	
¾" NPT SIN TY7236	¾" ISO SIN TY7236	°C	°F		FM	UL
584621165	584631165	74	[165]	1	√	√
584621214	584631214	100	[212]	1	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ESFR-17

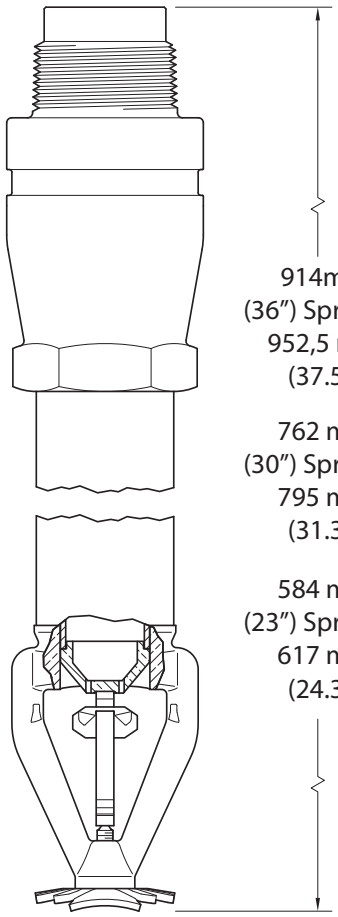
Dry-Type Pendent

K Factor	K= 242 (16.8)
Thread Size	1-¼" NPT or ISO 7-1
Grooved End	2" Standard Cut Grooved per Tech Data Sheet TFP1898
Approvals	UL, FM
Temperature	74°C (165°F), 100°C (212°F)
Sprinkler Finish	Natural Brass
SIN	TY7229
Wrench Type	W-TYPE 26
Tech Data Sheet	**TFP320**

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Eliminates in-rack sprinklers for box-in-box applications ■ Suppression mode sprinklers that are especially advantageous as a means of eliminating in-rack sprinklers when protecting high-piled box-in-box refrigerated storage areas ■ The drop between the inlet and sprinkler remains dry until the sprinkler operates, allowing for a pendent sprinkler installation on a wet pipe sprinkler system where the dry drop and sprinkler are located in an area subjected to freezing temperatures ■ Less costly to install and maintain than pre-action or antifreeze systems ■ The Model ESFR-17 Dry Type Pendent Sprinkler is FM Approved and has successfully undergone full-scale fire testing at FM Global, when used in conformance with applicable FM Global Property Loss Prevention Data Sheets ■ The Model ESFR-17 Dry Type Sprinklers are primarily used for ceiling only sprinkler protection and used to protect solid piled, palletized, and rack storage that is subject to freezing temperatures

ESFR-17, K=242 (16.8), 1-¼" ISO or NPT

Pendent • K=242 [16.8]
1-¼" NPT or ISO • SIN TY7229



K=242 [16.8] • 1-¼" NPT or ISO • TFP320								
Pendent Part No.		Temp.		Finish Code	Approvals & Listings			
1-¼" NPT SIN TY7229	1-¼" ISO 7-1 SIN TY7229	°C	°F		FM	UL	PAVUS	Fire Academy of Russia
914 mm (36") Sprinkler								
614411360	I614411360	74	[165]	1	√	√	√	√
614421360	I614421360	100	[212]	1	-	√	√	√
762 mm (30") Sprinkler								
614411300	I614411300	74	[165]	1	√	√	√	√
614421300	I614421300	100	[212]	1	-	√	√	√
584 mm (23") Sprinkler								
614411230	I614411230	74	[165]	1	√	√	√	√
614421230	I614421230	100	[212]	1	-	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ESFR-14

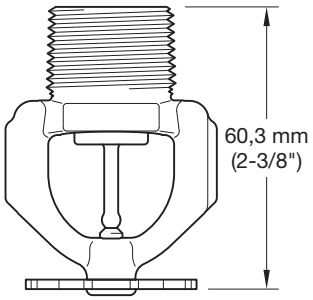
Pendent

K Factor	K= 201 (14.0)
Thread Size	¾" NPT or ISO 7-1
Approvals	UL, C-UL, FM
Temperature	68°C (155°F), 93°C (200°F)
Sprinkler Finish	Natural Brass
SIN	TY6236
Wrench Type	W-TYPE 34
Tech Data Sheet	**TFP319**

Early Suppression, Fast Response (ESFR) ■ 3mm bulb type ■ Designed for the protection of rack storage ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ They are suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage.

ESFR-14, K=201 (14.0), ¾" ISO or NPT

Pendent • K=201 [14.0]
¾" NPT or ISO • SIN TY6236



K=201 [14.0] • ¾" NPT or ISO 7-1 • TFP319									
Pendent Part No.		Temp.		Finish Code	Approvals & Listings				
¾" NPT SIN TY6236	¾" ISO 7-1 SIN TY6236	°C	°F		FM	UL	VdS	PAVUS	Fire Academy of Russia
584491155	584431155	68	[155]	1	√	√	√	√	√
584491200	584431200	93	[200]	1	√	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ULTRA K-17

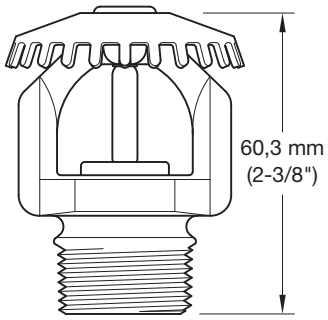
Upright, Control Mode Specific Application

K Factor	K= 242 (16.8)
Thread Size	¾" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	68°C (155°F), 93°C (200°F)
Sprinkler Finish	Natural Brass
SIN	TY7153
Wrench Type	W-TYPE 8
Tech Data Sheet	**TFP330**

5 mm bulb ■ Approved for storage heights of 7,6 m (25') and building heights to 9,1 m (30') ■ Full-scale fire testing has shown that the Ultra K17 can control fires with commodities up to Group A plastics, and eliminate the need for in-rack sprinklers.

Ultra K-17, K=242 (16.8), ¾" NPT

Upright • K=242 [16.8]
¾" NPT • SIN TY7153



K=242 [16.8] • ¾" NPT • TFP330						
Upright Part No. SIN TY7153	Temperature		Finish Code	Approvals & Listings		
	°C	°F		FM	UL	Fire Academy of Russia
518871155	68	[155]	1	√	√	√
518871200	93	[200]	1	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ULTRA K-17

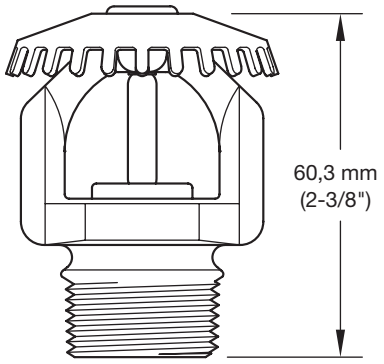
Upright, Control Mode Specific Application, 286° F

K Factor	K= 242 (16.8)
Thread Size	¾" NPT
Approvals	UL, C-UL, FM
Temperature	141°C (286°F)
Sprinkler Finish	Natural Brass
SIN	TY7103
Wrench Type	W-TYPE 8
Tech Data Sheet	**TFP331**

5 mm bulb ■ Control mode sprinkler

Ultra K-17, K=242 (16.8), ¾" NPT

Upright • K=242 [16.8]
¾" NPT • SIN TY7103



K=242 [16.8] • ¾" NPT • TFP331						
Upright Part No. SIN TY7103	Temperature		Finish Code	Approvals & Listings		
	°C	°F		FM	UL	Fire Academy of Russia
518871286*	141	[286]	1	√	√	√

* for use with Quell systems

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

K17-231

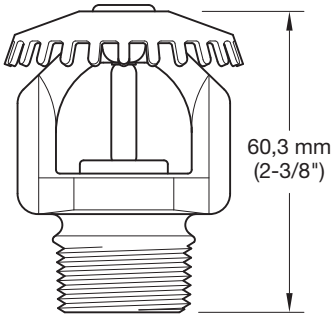
Upright & Pendent

K Factor	K= 242 (16.8)
Thread Size	¾" NPT
Approvals	Upright= UL, C-UL, FM, NYC Pendent= UL, C-UL, NYC
Temperature	68°C (155°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass
SIN	TY7151, TY7251
Wrench Type	W-TYPE 8
Tech Data Sheet	**TFP332**

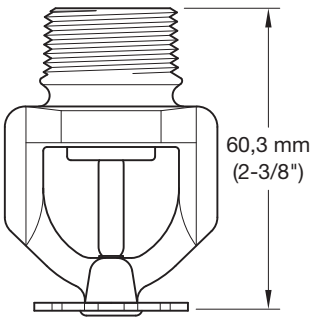
5 mm bulb ■ They are "standard response spray sprinklers" which produce a hemispherical water distribution pattern below the deflector ■ Low-pressure requirement (as low as 0,5 bar (7 psi)) can save cost by reducing branch line size, taking advantage of maximised spacing, and upgrading existing densities ■ Very large orifice sprinkler for use in high challenge storage occupancies.

K17-231, K=242 (16.8), ¾" NPT

Upright • K=242 [16.8]
¾" NPT • SIN TY7151



Pendent • K=242 [16.8]
¾" NPT • SIN TY7251



K=242 [16.8] • ¾" NPT • TFP332									
Part No.		Temp.		Finish Code	Approvals & Listings				
Upright SIN TY7151	Pendent SIN TY7251	°C	°F		FM	UL	CNBOP	PAVUS	Fire Academy of Russia
518881155	518891155	68	[155]	1	U	√	√	√	√
518881200	518891200	93	[200]	1	U	√	√	√	√
518881286	518891286	141	[286]	1	U	√	√	√	√

U=Upright Approved, √=Both Approved

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ELO-231B

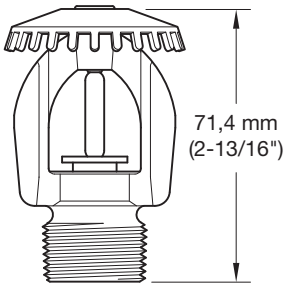
Upright & Pendent

K Factor	K= 161 (11.2)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	68°C (155°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY5151, TY5251, TY5851
Wrench Type	W-TYPE 3
Tech Data Sheet	**TFP342**

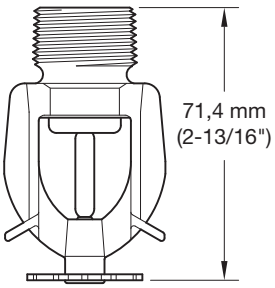
5 mm bulb ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

ELO-231B, K=161 (11.2), 3/4" NPT

Upright · K=161 [11.2]
3/4" NPT · SIN TY5151



Pendent · K=161 [11.2]
3/4" NPT · SIN TY5251



K=161 [11.2] · 3/4" NPT · TFP342													
Part No.		Temp.		Finish Code	Approvals & Listings								
Upright SIN TY5151	Pendent SIN TY5251	°C	°F		FM	UL	VdS	CNBOP	PAVUS	Belarusian	Fire Academy of Russia	T/S/U
505101155	505121155	68	[155]	1	√	√	√	√	√	√	√	√
505101200	505121200	93	[200]	1	√	√	√	√	√	√	√	√
505101286	505121286	141	[286]	1	√	√	√	√	√	√	√	√
505106155	505126155	68	[155]	6	√	U	√	√	√	√	√	√
505106200	505126200	93	[200]	6	√	U	√	√	√	√	√	√
505106286	505126286	141	[286]	6	√	U	√	√	√	√	√	√
505107155	505127155	68	[155]	7	√	U	√	√	√	√	√	√
505107200	505127200	93	[200]	7	√	U	√	√	√	√	√	√
505107286	505127286	141	[286]	7	√	U	√	√	√	√	√	√
505108155	505128155	68	[155]	8	√	U	√	√	√	√	√	√
505108200	505128200	93	[200]	8	√	U	√	√	√	√	√	√
505108286	505128286	141	[286]	8	√	U	√	√	√	√	√	√
505109155	505129155	68	[155]	9	√	√	√	√	√	√	√	√
505109200	505129200	93	[200]	9	√	√	√	√	√	√	√	√
505109286	505129286	141	[286]	9	√	√	√	√	√	√	√	√

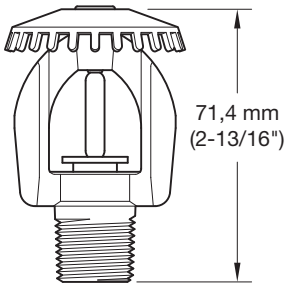
U=Upright Approved, √=Both Approved

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ELO-231B, K=161 (11.2), ½" NPT

Upright • K=161 [11.2]
½" NPT • SIN TY5851



K=161 [11.2] • ½" NPT • TFP342									
Part No.	Temp.		Finish Code	Approvals & Listings				
Upright SIN TY5851	°C	°F		FM	UL	VdS	PAVUS	T/S/U
505011155	68	[155]	1	√	√	√	√	√
505011200	93	[200]	1	√	√	√	√	√
505011286	141	[286]	1	√	√	√	√	√
505016155	68	[155]	6	√	√	√	√	√
505016200	93	[200]	6	√	√	√	√	√
505016286	141	[286]	6	√	√	√	√	√
505017155	68	[155]	7	√	√	√	√	√
505017200	93	[200]	7	√	√	√	√	√
505017286	141	[286]	7	√	√	√	√	√
505018155	68	[155]	8	√	√	√	√	√
505018200	93	[200]	8	√	√	√	√	√
505018286	141	[286]	8	√	√	√	√	√
505019155	68	[155]	9	√	√	√	√	√
505019200	93	[200]	9	√	√	√	√	√
505019286	141	[286]	9	√	√	√	√	√

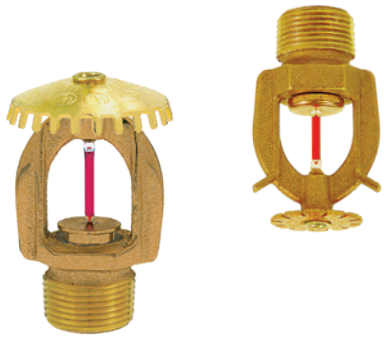
Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ELO-231 FRB

Upright & Pendent

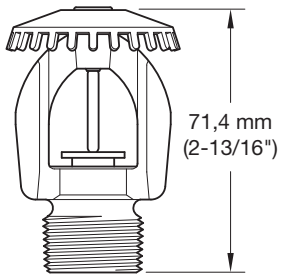


K Factor	K= 161 (11.2)
Thread Size	½" NPT • ¾" NPT
Approvals	UL, C-UL, FM, NYC, VdS, LPCB
Temperature	68°C (155°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY5131, TY5231, TY5831 (½" NPT)
Wrench Type	W-TYPE 3
Tech Data Sheet	**TFP344**

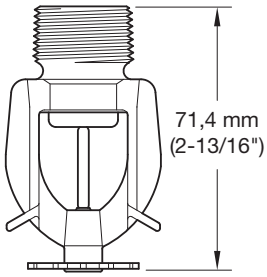
3 mm bulb ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

ELO-231 FRB, K=161 (11.2), ¾" NPT

Upright • K=161 [11.2]
¾" NPT • SIN TY5131



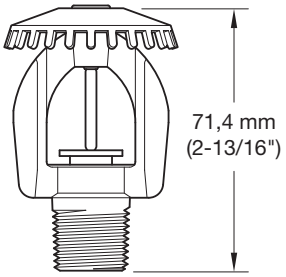
Pendent • K=161 [11.2]
¾" NPT • SIN TY5231



K=161 [11.2] • ¾" NPT • TFP344											
Part No.		Temp.		Finish Code	Approvals & Listings						
Upright SIN TY5131	Pendent SIN TY5231	°C	°F		FM	UL	VdS	LPCB	Belarusian	Fire Academy of Russia
505001155	505021155	68	[155]	1	√	√	√	√	√	√
505001200	505021200	93	[200]	1	√	√	√	√	√	√
505001286	505021286	141	[286]	1	√	√	√	√	√	√
505009155	505029155	68	[155]	9	√	√	√	√	√	√
505009200	505029200	93	[200]	9	√	√	√	√	√	√
505009286	505029286	141	[286]	9	√	√	√	√	√	√

ELO-231 FRB, K=161 (11.2), ½" NPT

Upright • K=161 [11.2]
½" NPT • SIN TY5831



K=161 [11.2] • ½" NPT • TFP344				
Part No.	Temp.		Finish Code	Approvals & Listings
Upright SIN TY5831	°C	°F		UL
505001155	68	[155]	1	√ *
505001200	93	[200]	1	√*
505001286	141	[286]	1	-
505009155	68	[155]	9	-
505009200	93	[200]	9	-
505009286	141	[286]	9	-

* Retrofit Only

Finish Code: 1=Plain Brass, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ELO-231

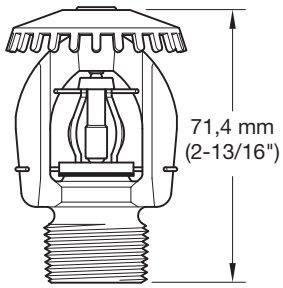
Pendent & Upright

K Factor	K= 161 (11.2)
Thread Size	½" NPT • ¾" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	74°C (165°F), 100°C (212°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY5111, TY5211, TY5811
Wrench Type	W-TYPE 3
Tech Data Sheet	**TFP340**

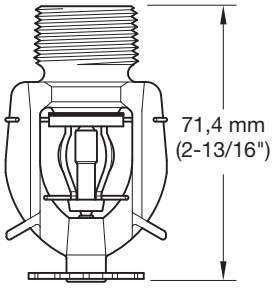
Solder type ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

ELO-231, K=161 (11.2), ¾" NPT

Upright • K=161 [11.2]
¾" NPT • SIN TY5111



Pendent • K=161 [11.2]
¾" NPT • SIN TY5211



K=161 [11.2] • ¾" NPT • TFP340						
Part No.		Temp.		Finish Code	Approvals & Listings	
Upright SIN TY5111	Pendent SIN TY5211	°C	°F		FM	UL
501101165	501121165	74	[165]	1	√	√
501101212	501121212	100	[212]	1	√	√
501101286	501121286	141	[286]	1	√	√
501106165	501126165	74	[165]	6	U	√
501106212	501126212	100	[212]	6	U	√
501106286	501126286	141	[286]	6	U	√
501107165	501127165	74	[165]	7	U	√
501107212	501127212	100	[212]	7	U	√
501107286	501127286	141	[286]	7	U	√
501108165	501128165	74	[165]	8	U	√
501108212	501128212	100	[212]	8	U	√
501108286	501128286	141	[286]	8	U	√
501109165	501129165	74	[165]	9	√	√
501109212	501129212	100	[212]	9	√	√
501109286	501129286	141	[286]	9	√	√

U=Upright Approved, √=Both Approved

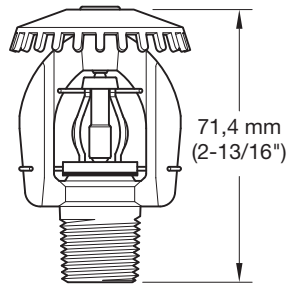
Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

ELO-231, K=161 (11.2), ½" NPT

Upright • K=161 [11.2]
½" NPT • SIN TY5811



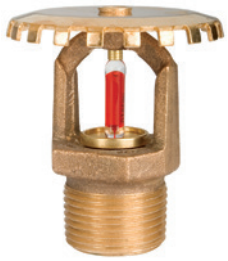
K=161 [11.2] • ½" NPT • TFP340					
Part No.	Temp.		Finish Code	Approvals & Listings	
Upright SIN TY5811	°C	°F		FM	UL
502101165	74	[165]	1	√	√
502101212	100	[212]	1	√	√
502101286	141	[286]	1	√	√
502106165	74	[1565]	6	√	√
502106212	100	[212]	6	√	√
502106286	141	[286]	6	√	√
502107165	74	[165]	7	√	√
502107212	100	[212]	7	√	√
502107286	141	[286]	7	√	√
502108165	74	[165]	8	√	√
502108212	100	[212]	8	√	√
502108286	141	[286]	8	√	√
502109165	74	[165]	9	√	√
502109212	100	[212]	9	√	√
502109286	141	[286]	9	√	√

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LD "Large Drop"

Upright, Control Mode Specific Application

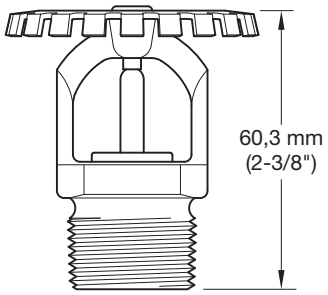


K Factor	K= 161 (11.2)
Thread Size	¾" NPT
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass
SIN	TY5153
Wrench Type	W-TYPE 3
Tech Data Sheet	**TFP335**

5 mm bulb ■ Control mode sprinkler ■ Can provide a higher level of protection than standard spray sprinklers ■ Can provide an advantage by eliminating in-rack sprinklers ■ Designed for the protection of high-piled storage

LD "Large Drop", K=161 (11.2), ¾" NPT

Upright • K=161 [11.2]
¾" NPT • SIN TY5153



K=161 [11.2] • ¾" NPT • TFP335				
Part No.	Temp.		Finish Code	Approvals & Listings
Upright SIN TY5153	°C	°F		UL
504002155	68	[155]	2	√
504002200	93	[200]	2	√
504002286	141	[286]	2	√

Finish Code: 2= Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

TY-B

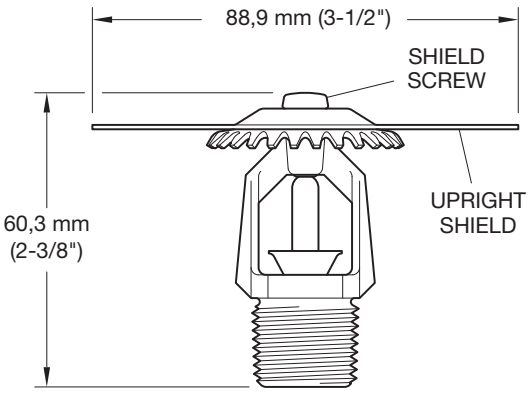
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Sprinkler Finish	Natural Brass, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3153, TY3251, TY4153, TY4251
Wrench Type	W-TYPE 6
Tech Data Sheet	**TFP351**

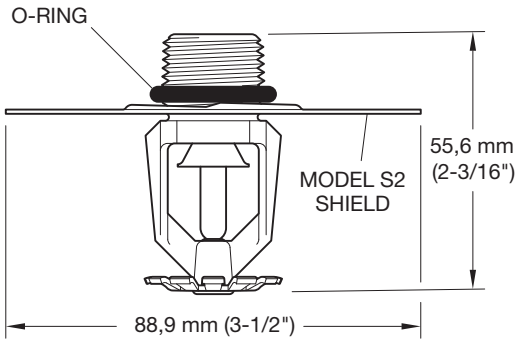
5 mm bulb ■ Intermediate level (in-rack) with shield ■ Used where sprinkler guards are not required ■ Upright factory assembled unit having an integral water shield ■ Both the Pendent and Upright Sprinklers produce a hemispherical water distribution pattern below the deflector.

TY-B, K=80 (5.6), 1/2" NPT

Upright · K=80 [5.6]
1/2" NPT · SIN TY3153



Pendent · K=80 [5.6]
1/2" NPT · SIN TY3251



K=80 [5.6] · 1/2" NPT · TFP351							
Part No.			Temp.		Finish Code	Approvals & Listings	
Upright SIN TY3153	Pendent SIN TY3251	Pendent * Shield & O-Ring	°C	°F		FM	UL
575331135	575711135	560709332	57	135	1	√	√
575331155	575711155		68	155	1	√	√
575331175	575711175		79	175	1	√	√
575331200	575711200		93	200	1	√	√
575331286	575711286		141	286	1	√	√
575331360	575711360		182	360	1	√	√
–	575716135	560709332	57	135	6	P	P
–	575716155		68	155	6	P	P
–	575716175		79	175	6	P	P
–	575716200		93	200	6	P	P
–	575716286		141	286	6	P	P
575337135	575717135	560709332	57	135	7	√	√
575337155	575717155		68	155	7	√	√
575337175	575717175		79	175	7	√	√
575337200	575717200		93	200	7	√	√
575337286	575717286		141	286	7	√	√
575337360	575717360		182	360	7	√	√
–	575718135	560709332	57	135	8	P	P
–	575718155		68	155	8	P	P
–	575718175		79	175	8	P	P
–	575718200		93	200	8	P	P
–	575718286		141	286	8	P	P

* Pendent Shield & O-Ring Ordered Separately

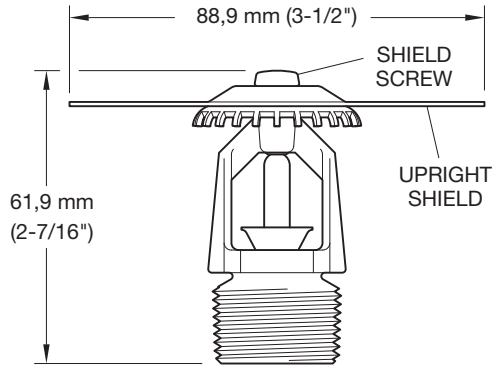
P=Pendent Approved, √=Both Approved

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated

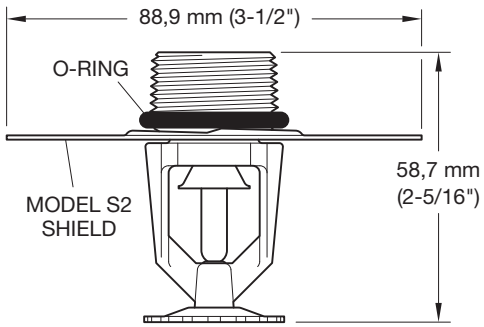
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B, K=115 (8.0), ¾" NPT

Upright · K=115 [8.0]
¾" NPT · SIN TY4153



Pendent · K=115 [8.0]
¾" NPT · SIN TY4251



K=115 [8.0] · ¾" NPT · TFP351							
Part No.			Temp.		Finish Code	Approvals & Listings	
Upright SIN TY4153	Pendent SIN TY4251	Pendent * Shield & O-Ring	°C	°F		FM	UL
575431135	575911135	560709342	57	135	1	√	√
575431155	575911155		68	155	1	√	√
575431175	575911175		79	175	1	√	√
575431200	575911200		93	200	1	√	√
575431286	575911286		141	286	1	√	√
575431360	575911360		182	360	1	√	√
-	575916135	560709342	57	135	6	P	P
-	575916155		68	155	6	P	P
-	575916175		79	175	6	P	P
-	575916200		93	200	6	P	P
-	575916286		141	286	6	P	P
575437135	575917135	560709342	57	135	7	√	√
575437155	575917155		68	155	7	√	√
575437175	575917175		79	175	7	√	√
575437200	575917200		93	200	7	√	√
575437286	575917286		141	286	7	√	√
575437360	575917360		182	360	7	√	√
-	575918135	560709342	57	135	8	P	P
-	575918155		68	155	8	P	P
-	575918175		79	175	8	P	P
-	575918200		93	200	8	P	P
-	575918286		141	286	8	P	P

* Pendent Shield & O-Ring Ordered Separately

Finish Code: 1=Plain Brass, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

TY-B

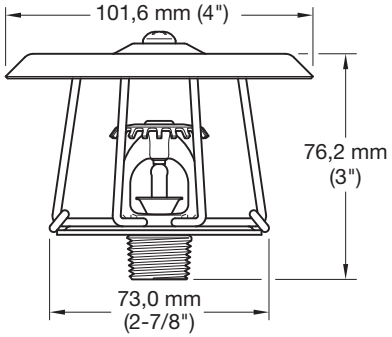
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, FM
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Sprinkler Finish	Natural Brass
Guard Finish	Red or Zinc
SIN	TY315, TY325
Wrench Type	W-TYPE 6
Tech Data Sheet	**TFP352, TFP780**

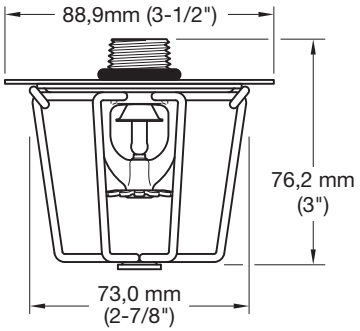
5 mm bulb ■ Factory assembled unit having an integral water shield ■ Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems where their thermally sensitive elements must be shielded from the water spray of higher elevation sprinklers that could operate earlier during a fire ■ May also be used in other applications such as beneath open gridded catwalks.

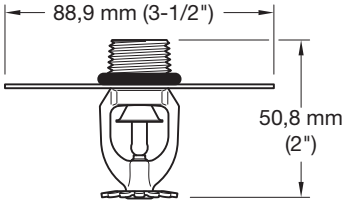
TY-B, K=80 (5.6), ½" NPT

Upright · K=80 [5.6]
½" NPT · SIN TY315



Pendent · K=80 [5.6]
½" NPT · SIN TY325





K=80 [5.6] · ½" NPT · TFP352						
Part No.		Temp.		Finish Code	Approvals & Listings	
Upright SIN TY315	Pendent SIN TY325	°C	°F		FM	UL
775701135	775711135	57	135	1	√	√
775701155	775711155	68	155	1	√	√
775701175	775711175	79	175	1	√	√
775701200	775711200	93	200	1	√	√
775701286	775711286	141	286	1	√	√
775701360	775711360	182	360	1		√

Guards and Shields · TFP780				
Part No.		Finish	Approvals & Listings	
Upright G1/S1 Guard & Shield	Pendent G1 Guard, Shield & O-Ring		FM	UL
569381066	569381001	Red Painted	√	√
569389066	569389001	Zinc Chromate	√	√

Pendent Shields with O-Ring · TFP780			
Part No. Pendent S2 Shield with O-Ring	Finish	Approvals & Listings	
		FM	UL
560709332	Zinc Chromate	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

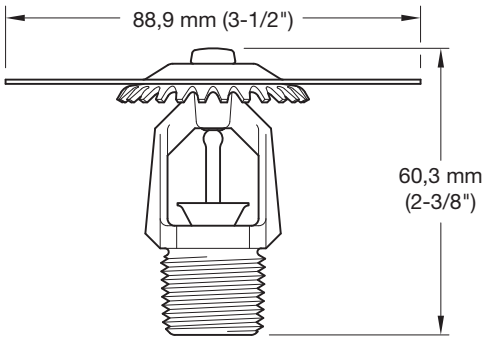
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Lead Coated
SIN	TY3133, TY3231, TY4133, TY4231
Wrench Type	W-TYPE 6
Tech Data Sheet	**TFP356**

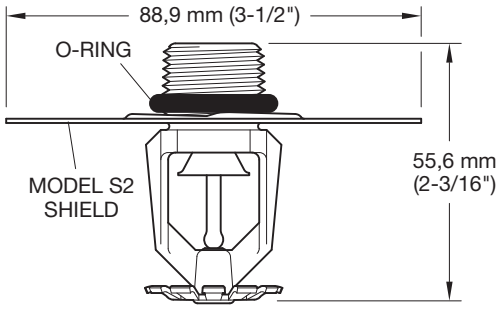
3 mm bulb ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

TY-FRB, K=80 (5.6), 1/2" NPT

Upright · K=80 [5.6]
1/2" NPT · SIN TY3133



Pendent · K=80 [5.6]
1/2" NPT · SIN TY3231



K=80 [5.6] · 1/2" NPT · TFP356							
Part No.			Temp.		Finish Code	Approvals & Listings	
Upright SIN TY3133	Pendent SIN TY3231	Pendent * Shield & O-Ring	°C	°F		FM	UL
573331135	573711135	560709332	57	135	1	√	√
573331155	573711155		68	155	1	√	√
573331175	573711175		79	175	1	√	√
573331200	573711200		93	200	1	√	√
573331286	573711286		141	286	1	√	√
573337135	573717135	560709332	57	135	7	U	U
573337155	573717155		68	155	7	U	U
573337175	573717175		79	175	7	U	U
573337200	573717200		93	200	7	U	U
573337286	573717286		141	286	7	U	U

U=Upright Approved, √=Both Approved

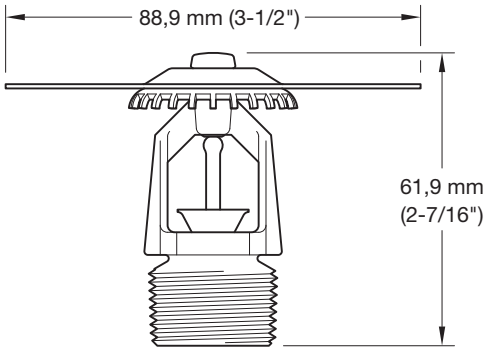
Finish Code: 1=Plain Brass, 7=Lead Coated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

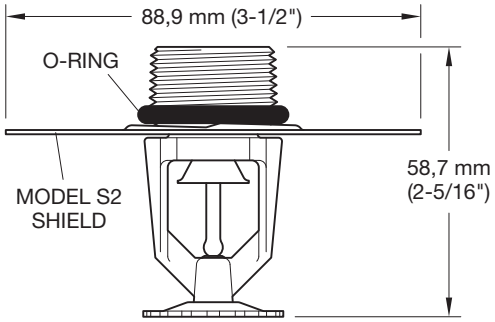
Storage Sprinklers

TY-FRB, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4133



Pendent • K=115 [8.0]
¾" NPT • SIN TY4231



K=115 [8.0] • ¾" NPT • TFP356							
Part No.			Temp.		Finish Code	Approvals & Listings	
Upright SIN TY4133	Pendent SIN TY4231	Pendent * Shield & O-Ring	°C	°F		FM	UL
573431135	573911135	560709342	57	135	1	√	√
573431155	573911155		68	155	1	√	√
573431175	573911175		79	175	1	√	√
573431200	573911200		93	200	1	√	√
573431286	573911286		141	286	1	√	√
573431360	573911360		182	360	1	√	√
573437135	573917135	560709342	57	135	7	U	U
573437155	573917155		68	155	7	U	U
573437175	573917175		79	175	7	U	U
573437200	573917200		93	200	7	U	U
573437286	573917286		141	286	7	U	U
573437360	573917360		182	360	7	U	U

U=Upright Approved, **√**=Both Approved

Finish Code: 1=Plain Brass, 7=Lead Coated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

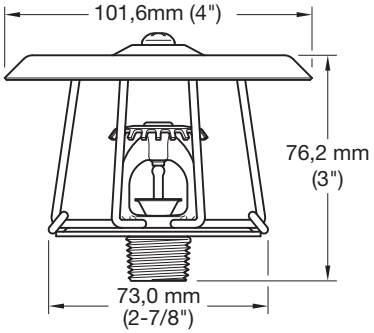
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass
Guard Finish	Red or Zinc
SIN	TY313, TY323
Wrench Type	W-TYPE 6
Tech Data Sheet	**TFP357, TFP780**

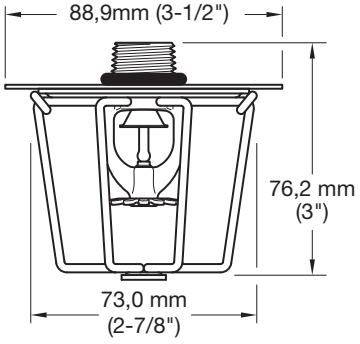
3 mm bulb ■ Factory assembled unit having an integral water shield ■ Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems where their thermally sensitive elements must be shielded from the water spray of higher elevation sprinklers that could operate earlier during a fire ■ May also be used in other applications such as beneath open gridded catwalks

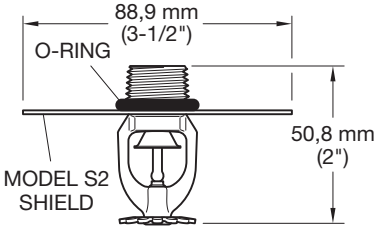
TY-FRB, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY313



Pendent • K=80 [5.6]
½" NPT • SIN TY323





K=80 [5.6] • ½" NPT • TFP357						
Part No.		Temp.		Finish Code	Approvals & Listings	
Upright SIN TY313	Pendent SIN TY323	°C	°F		FM	UL
773501135	773511135	57	135	1	√	√
773501155	773511155	68	155	1	√	√
773501175	773511175	79	175	1	√	√
773501200	773511200	93	200	1	√	√
773501286	773511286	141	286	1	√	√

Use Suffix "I" for ISO 7-1 connection; for example, 773501286-I.

Guards and Shields • TFP780				
Part No.		Finish	Approvals & Listings	
Upright G1/S1 Guard & Shield	Pendent G1 Guard, Shield & O-Ring		FM	UL
569381066	569381001	Red Painted	√	√
569389066	569389001	Zinc Chromate	√	√

Pendent Shields with O-Ring • TFP780			
Part No. Pendent S2 Shield with O-Ring	Finish	Approvals & Listings	
		FM	UL
560709332	Zinc Chromate	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

TY-L

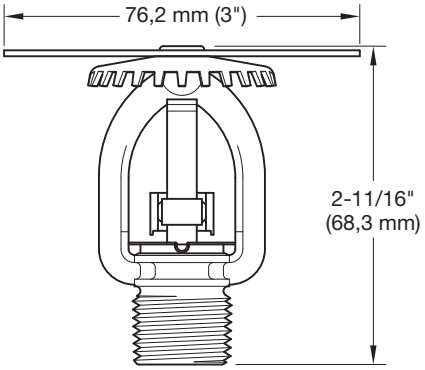
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	½" NPT · ¾" NPT
Approvals	UL, C-UL, FM
Temperature	74°C (165°F), 100°C (212°F), 138°C (280°F)
Sprinkler Finish	Natural Brass
SIN	TY3113, TY3211, TY4113, TY4211
Wrench Type	W-TYPE 9
Tech Data Sheet	**TFP350**

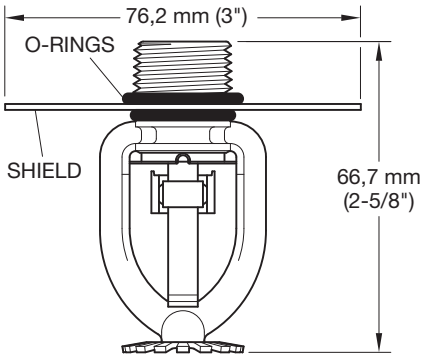
Solder type ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

TY-L, K=80 (5.6), ½" NPT

Upright · K=80 [5.6]
½" NPT · SIN TY3113



Pendent · K=80 [5.6]
½" NPT · SIN TY3211



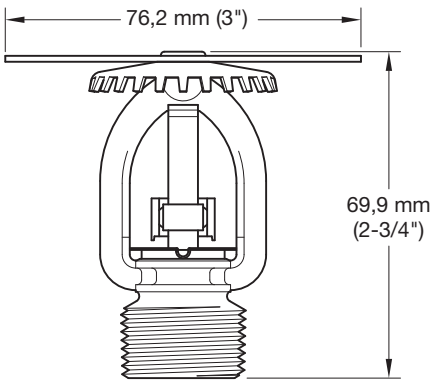
K=80 [5.6] · ½" NPT · TFP350							
Part No.			Temperature		Finish Code	Approvals & Listings	
Upright SIN TY3113	Pendent SIN TY3211	Pendent Shield & O-Ring	°C	°F		FM	UL
532531165	511121165	560156802	74	[165]	1	√	√
532531212	511121212		100	[212]	1	√	√
532531280	511121280		138	[280]	1	√	√

Finish Code: 1=Plain Brass

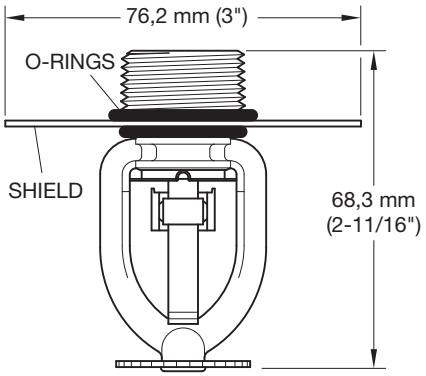
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-L, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4113



Pendent • K=115 [8.0]
¾" NPT • SIN TY4211



K=115 [8.0] • ¾" NPT • TFP350							
Part No.			Temp.		Finish Code	Approvals & Listings	
Upright SIN TY4113	Pendent SIN TY4211	Pendent Shield & O-Ring	°C	°F		FM	UL
531531135	511021135	560156803	74	165	1	√	√
531531286	511021286		100	212	1	√	√
531531360	511021360		138	280	1	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

TY-FRL

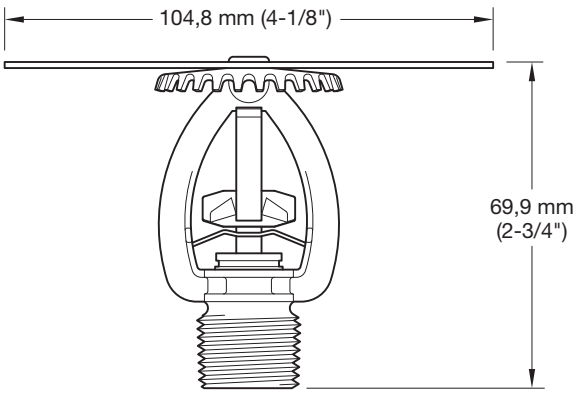
Pendent & Upright, Intermediate Level

K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	74°C (165°F)
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3123, TY3221, TY4123, TY4221
Wrench Type	W-TYPE 9
Tech Data Sheet	**TFP355**

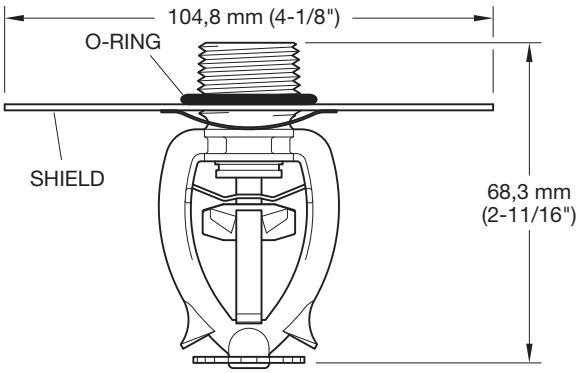
Solder type ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

TY-FRL, K=80 (5.6), 1/2" NPT

Upright · K=80 [5.6]
1/2" NPT · SIN TY3123



Pendent · K=80 [5.6]
1/2" NPT · SIN TY3221



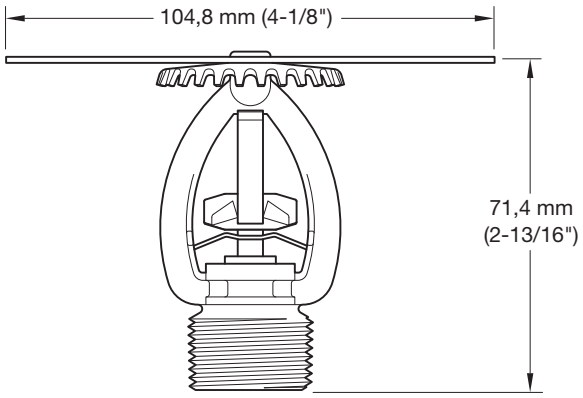
K=80 [5.6] · 1/2" NPT · TFP355							
Part No.			Temperature		Finish Code	Approvals & Listings	
Upright SIN TY3123	Pendent SIN TY3221	Pendent Shield & O-Ring	°C	°F		FM	UL
589861165	589821165	560156802	74	[165]	1	√	√
589869165	589829165		74	[165]	9	√	√

Finish Code: 1=Plain Brass, 9=Chrome Plated

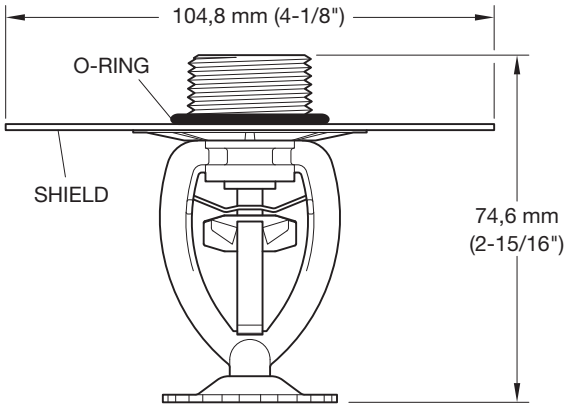
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRL, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4123



Pendent • K=115 [8.0]
¾" NPT • SIN TY4221



K=115 [8.0] • ¾" NPT • TFP355							
Part No.			Temperature		Finish Code	Approvals & Listings	
Upright SIN TY4123	Pendent SIN TY4221	Pendent Shield & O-Ring	°C	°F		FM	UL
581531165	581721165	560156802	74	[165]	1	√	√
581539165	581729165		74	[165]	9	√	√

Finish Code: 1=Plain Brass, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Storage Sprinklers

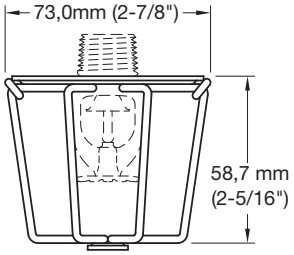
Sprinkler Guards

Model G1 & G4 Sprinkler Guards
Model G1/S1 & G4/S3 Guards with Shields

Approvals	UL, C-UL, FM
Guard Finishes	Plain Brass, Red Painted, Chrome Plated, Zinc Chromate
Tech Data Sheet	**TFP780**

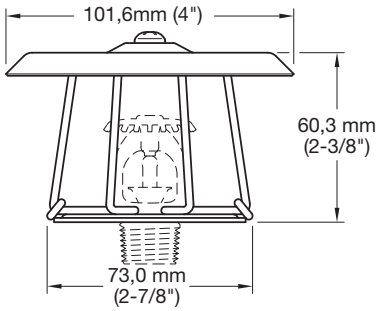
Designed for use with specific types of Series TY-B, TY-FRB, TY-L, and TY-FRL Sprinklers that may be located in areas that make them susceptible to mechanical or physical damage ■ Rugged guard design to minimise possible damage to sprinklers ■ Shields are for use in storage racks or beneath grated mezzanine, or other areas requiring the sprinklers to be shielded from possible discharge from sprinklers above ■ Can be used with either ½" or ¾" NPT sprinklers

G1



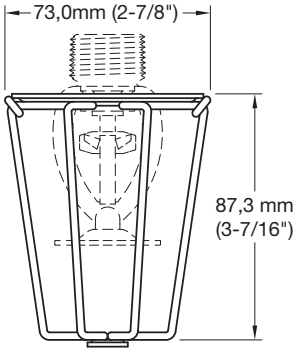
G1 - Guards · TFP780			
Part No. G1 Guard	Finish	Approvals & Listings FM	UL
569381001	Red Painted	√	√
569389001	Zinc Chromate	√	√

G1/S1



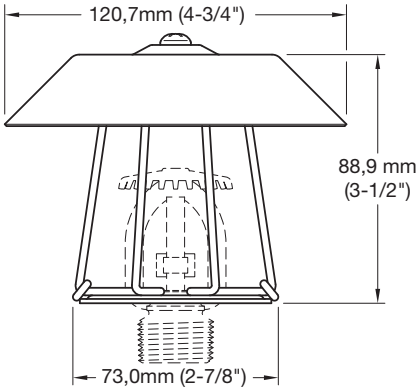
G1/S1 - Guards and Shields · TFP780			
Part No. G1/S1 Guard & Shield	Finish	Approvals & Listings FM	UL
569381001	Red Painted	√	√
569389001	Zinc Chromate	√	√

G4



G4 - Guards · TFP780			
Part No. G4 Guard	Finish	Approvals & Listings FM	UL
569371001	Red Painted	√	√
569379001	Zinc Chromate	√	√

G4/S3 with Shield



G4/S3 - Guards and Shields · TFP780			
Part No. G4/S3 Guard & Shield	Finish	Approvals & Listings FM	UL
569371066	Red Painted	√	√
569379066	Zinc Chromate	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

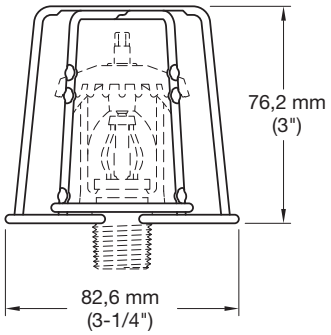
Sprinkler Guards

Model G2 Sprinkler Guard, Model WS-2 Shield, and Model WSG-2 Sprinkler Guard with Shield

Approvals	UL, C-UL, FM
Guard Finishes	Red Painted, Zinc Coated
Tech Data Sheet	**TFP780**

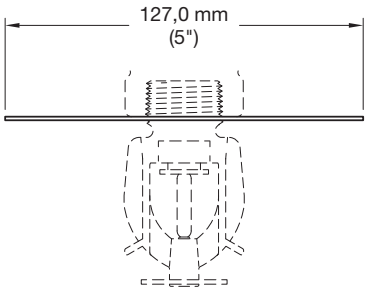
Designed for use with Series ELO-231, ELO-231B, or ELO-231FRB Sprinklers that may be located in areas that make them susceptible to mechanical or physical damage ■ Rugged guard design to minimise possible damage to sprinklers ■ Shields are for use in storage racks or beneath grated mezzanine, or other areas requiring the sprinklers to be shielded from possible discharge from sprinklers above ■ Can be used with either ½" or ¾" NPT sprinklers

G2



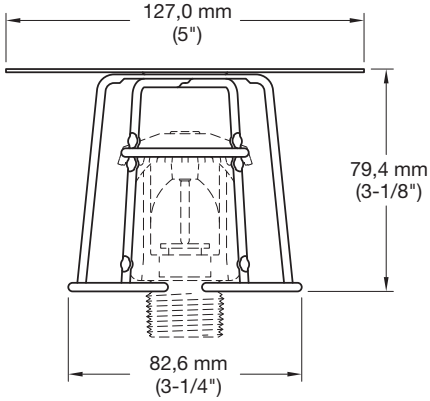
G2 - Guards • TFP780			
Part No. G2 Guard	Finish	Approvals & Listings FM	UL
560001087	Red Painted	√	√
560001086	Zinc Coated	√	√

WS-2 Shield



WS-2 - Shields • TFP780			
Part No. WS-2 Shield	Thread Size	Finish	Approvals & Listings UL
560001081	½" NPT	Red Painted	√
560001083	¾" NPT		√
560001080	½" NPT	Zinc Coated	√
560001082	¾" NPT		√

WSG-2 with Shield



WSG-2 - Guards & Shields • TFP780		
Part No. WSG-2 Guard & Shield	Finish	Approvals & Listings UL
560001098	Red Painted	√
560001097	Zinc Coated	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

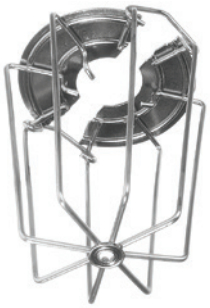
Storage Sprinklers

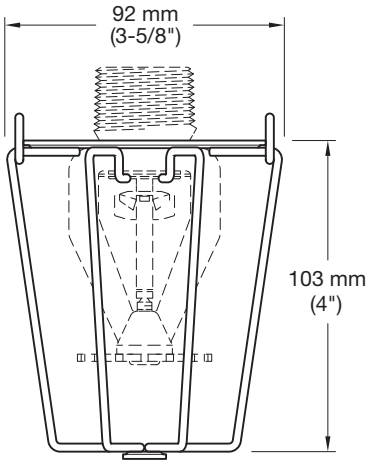
Sprinkler Guards

Model EG-25 Sprinkler Guard for Model ESFR-25 Pendent Sprinkler

Approvals	FM
Guard Finishes	Red Painted, Zinc Chromate
Tech Data Sheet	**TFP784**

Designed for use with the TYCO Model ESFR-25 Pendent Sprinkler and may be located in areas that make it susceptible to mechanical or physical damage ■ Provides protection from mechanical and/or physical damage, for example, rack storage sprinkler installations ■ Welded assembly fabricated from carbon steel





EG-25 - Guards · TFP784		
Part No.	Finish	Approvals & Listings
EG-25 Guard		FM
569391025	Red Painted	√
569399025	Zinc Chromate	√

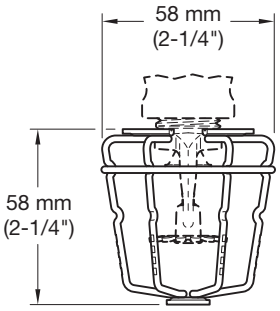
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Sprinkler Guards

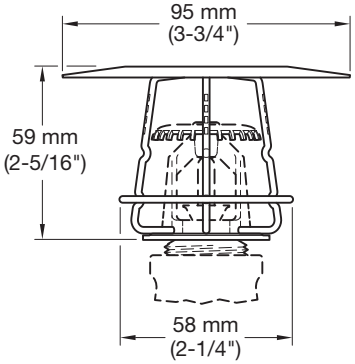
Model GUMC/GUWSU Sprinkler Guard
for use with Series TY-B/TY-FRB Sprinklers Only

Approvals	FM
Guard Finishes	Zinc Chromate
Tech Data Sheet	**TFP781**

Designed for use with Series TY-B and TY-FRB sprinklers and may be located in areas that make it susceptible to mechanical or physical damage ■ Installation of Guards on Sprinklers form Intermediate Level Sprinkler assemblies intended for use in fire sprinkler systems. ■ Welded assembly fabricated from carbon steel



GUMC - Guards · TFP781		
Part No. GUMC Guards	Thread Size	Finish
GUMC15	15mm (1/2")	Zinc Chromate
GUMC20-1	20mm (3/4")	



GUWSU - Guards & Shields · TFP781		
Part No. GUWSU - Guards & Shields	Thread Size	Finish
GUWSU15	15mm (1/2")	Zinc Chromate
GUWSU20-1	20mm (3/4")	

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

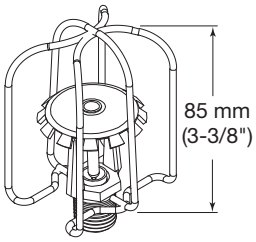
Storage Sprinklers

Sprinkler Guards

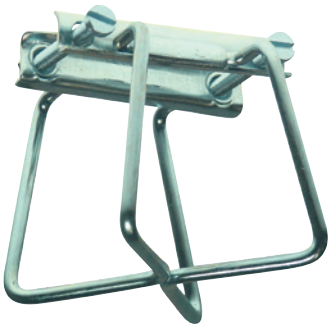
Type 011 Sprinkler Guard
for use with Series TY-B & TY-FRB Sprinklers

Approvals	FM
Guard Finishes	Red Painted, Zinc Chromate
Tech Data Sheet	**TFP781**

Designed for use with Series TY-B and TY-FRB sprinklers and may be located in areas that make it susceptible to mechanical or physical damage ■ Installation of Guards on Sprinklers form Intermediate Level Sprinkler assemblies intended for use in fire sprinkler systems. ■ Welded assembly fabricated from carbon steel



Type 011 - Guards	
Part No. Type 011 Guards	Finish
0110000	Red Painted
0110100	Zinc Chromate



Guard 2-Screw - Guards • TFP781		
Part No. Guard 2-Screw Guard	Height	Finish
55	55mm (2-3/16")	Zinc Chromate
77	77mm (3")	

Guard 2-Screw - Guards & Shields • TFP781			
Part No. Guard 2-Screw - Guard & Shield	Diameter	Height	Finish
55-B-160	160 (6-1/3")	55mm (2-3/16")	Zinc Chromate
77-B-150	150 (6")	77mm (3")	

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RAPID RESPONSE® Residential Sprinkler Systems

Offer optimum design and flow characteristics for all residential applications.

- Townhomes
- Multi-family
- Single-family
- Hotel / motel
- Assisted Living
- Student Housing
- Beam and sloped ceilings

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Learn more at www.tyco-fire.com/custompaint.

rapid response®
Residential Fire Sprinkler System

Rapid Response® Sprinklers

LFII

Pendent & Recessed Pendent

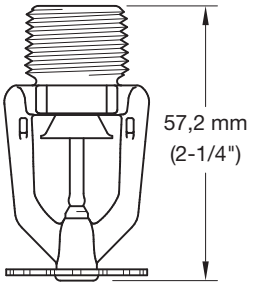
K Factor	K= 70 (4.9)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Pure White, Signal White, Chrome Plated, Natural Brass
SIN	TY2236
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP403**

3 mm bulb type ■ Approved for special applications with beamed ceilings

Intended for use in wet & dry pipe scenarios:
- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=70 (4.9), 1/2" NPT

Pendent · K=70 [4.9]
1/2" NPT · SIN TY2236



K=70 [4.9] · 1/2" NPT · TFP403					
Part No.	Temp.		Finish Code	Approvals & Listings	
Pendent SIN TY2236	°C	°F		UL	NSF/ANSI61
512121155	68	[155]	1	√	√
512121175	79	[175]	1	√	√
512123155	68	[155]	3	√	√
512123175	79	[175]	3	√	√
512124155	68	[155]	4	√	√
512124175	79	[175]	4	√	√
512125155	68	[155]	5	√	√
512125175	79	[175]	5	√	√
512129155	68	[155]	9	√	√
512129175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII

Pendent & Recessed Pendent

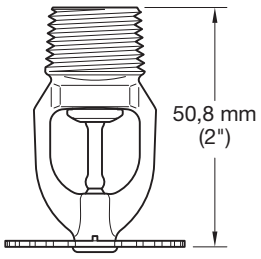
K Factor	K= 83 (5.8)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Signal White, Pure White, Chrome Plated, Natural Brass, Jet Black
SIN	TY3934
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP401**

3 mm bulb type

Intended for use in these wet pipe scenarios:
- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=83 (5.8), 1/2" NPT

Pendent • K=83 [5.8]
1/2" NPT • SIN TY3934



K=83 [5.8] • 1/2" NPT • TFP401					
Part No.	Temp.		Finish Code	Approvals & Listings	
Pendent SIN TY3934	°C	°F		UL	NSF/ANSI61
510581155	68	[155]	1	√	√
510581175	79	[175]	1	√	√
510583155	68	[155]	3	√	√
510583175	79	[175]	3	√	√
510584155	68	[155]	4	√	√
510584175	79	[175]	4	√	√
510585155	68	[155]	5	√	√
510585175	79	[175]	5	√	√
510589155	68	[155]	9	√	√
510589175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Rapid Response® Sprinklers

LFII

Pendent & Recessed Pendent

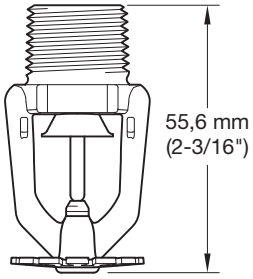
K Factor	K= 43 (3.0)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY1234
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP402**

3 mm bulb type ■ Decorative, fast response, frangible bulb sprinklers designed for use in residential occupancies such as homes, apartments, dormitories, and hotels.

Intended for use in these wet pipe scenarios:
- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=43 (3.0), ½" NPT

Pendent · K=43 [3.0]
½" NPT · SIN TY1234



K=43 [3.0] · ½" NPT · TFP402					
Part No.	Temp.		Finish Code	Approvals & Listings	
Pendent SIN TY1234	°C	°F		UL	NSF/ANSI61
510101155	68	[155]	1	√	√
510101175	79	[175]	1	√	√
510104155	68	[155]	4	√	√
510104175	79	[175]	4	√	√
510109155	68	[155]	9	√	√
510109175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII

Horizontal & Recessed Horizontal Sidewall

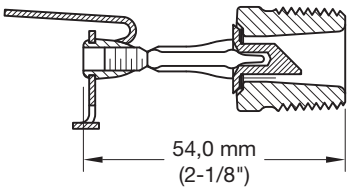
K Factor	K= 63 (4.4)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP412**

3 mm bulb type

Intended for use in these wet pipe scenarios:
- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=63 (4.4), ½" NPT

Horizontal Sidewall • K=63 [4.4]
½" NPT • SIN TY2334



K=63 [4.4] • ½" NPT • TFP412					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY2334	°C	°F		UL	NSF/ANSI61
512151155	68	[155]	1	√	√
512151175	79	[175]	1	√	√
512154155	68	[155]	4	√	√
512154175	79	[175]	4	√	√
512159155	68	[155]	9	√	√
512159175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Rapid Response® Sprinklers

LFII

Horizontal & Recessed Horizontal Sidewall

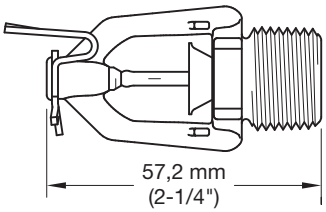
K Factor	K= 60 (4.2)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Pure White, Signal White, Chrome Plated, Natural Brass
SIN	TY1334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP410**

3 mm bulb type ■ Approved for special applications with beamed ceilings

Intended for use in the following scenarios:
- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=60 (4.2), ½" NPT

Horizontal Sidewall • K=60 [4.2]
½" NPT • SIN TY1334



K=60 [4.2] • ½" NPT • TFP410					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY1334	°C	°F		UL	NSF/ANSI61
512111155	68	[155]	1	√	√
512111175	79	[175]	1	√	√
512113155	68	[155]	3	√	√
512113175	79	[175]	3	√	√
512114155	68	[155]	4	√	√
512114175	79	[175]	4	√	√
512119155	68	[155]	9	√	√
512119175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII

Flat Plate Concealed Pendent

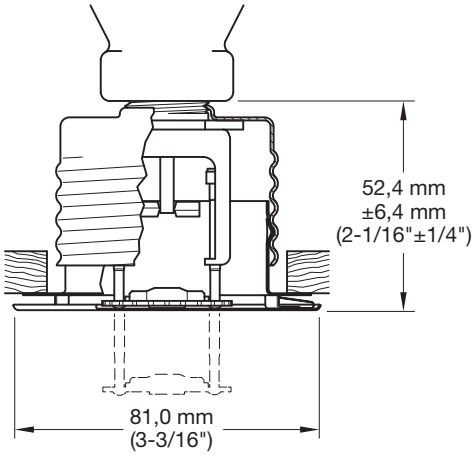
K Factor	K= 70 (4.9)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC, NSF/ANSI 61
Temperature	71°C (160°F) - Sprinkler, 59°C (139°F) - Cover Plate 100°C (212°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Brass, Brushed Chrome, Custom Paint
SIN	TY3596
Wrench Type	W-TYPE 18
Tech Data Sheet	**TFP442**

Solder type ■ Provides 12,7 mm (1/2") vertical adjustment. This adjustment provides flexibility when cutting fixed sprinkler drops ■ Cover plate conceals sprinkler components above the ceiling

Intended for use in the following scenarios:
- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=70 (4.9), 1/2" NPT

Concealed Pendent · K=70 [4.9]
1/2" NPT · SIN TY3596



K=70 [4.9] · 1/2" NPT · TFP442					
Part No.	Temp.			Approvals & Listings	
Pendent SIN TY3596	°C	°F	Finish Code	UL	NSF/ANSI61
511121160	71	160	1	√	√
511121212	100	212	1	√	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
562040135	59	139	71°C, 160°F	Ivory (RAL1015)
562040165	74	165	100°C, 212°F	
562042135	59	139	71°C, 160°F	Beige (RAL1001)
562042165	74	165	100°C, 212°F	
562043135	59	139	71°C, 160°F	Pure White (RAL9010)
562043165	74	165	100°C, 212°F	
562044135	59	139	71°C, 160°F	Signal White (RAL9003)
562044165	74	165	100°C, 212°F	
562045135	59	139	71°C, 160°F	Grey White (RAL9002)
562045165	74	165	100°C, 212°F	
562046135	59	139	71°C, 160°F	Brown (RAL8028)
562046165	74	165	100°C, 212°F	
562047135	59	139	71°C, 160°F	Black (RAL9005)
562047165	74	165	100°C, 212°F	
562048135	59	139	71°C, 160°F	Brushed Brass
562048165	74	165	100°C, 212°F	
562049135	59	139	71°C, 160°F	Brushed Chrome
562049165	74	165	100°C, 212°F	
562041135	59	139	71°C, 160°F	Brass
562041165	74	165	100°C, 212°F	
56204X135	59	139	71°C, 160°F	Custom Paint
56204X165	74	165	100°C, 212°F	

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Rapid Response® Sprinklers

LFII

Domed Plate Concealed Pendent

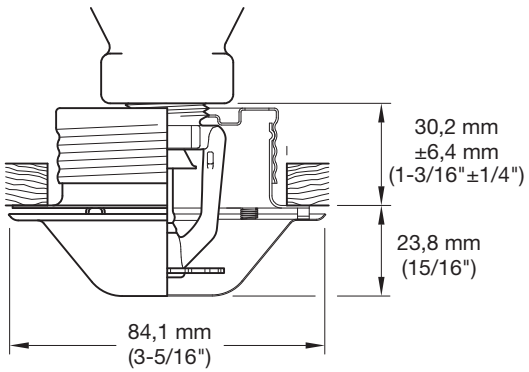
K Factor	K= 70 (4.9)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate
Cover Plate Finish	Pure White, Signal White, Chrome, Custom
SIN	TY2234
Wrench Type	W-TYPE 7
Tech Data Sheet	**TFP450**

3 mm bulb type ■ Can be used for horizontal and sloped ceilings ■ Cover plate conceals sprinkler components above the ceiling

Intended for use in the following scenarios:
- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=70 (4.9), ½" NPT

Concealed Pendent · K=70 [4.9]
½" NPT · SIN TY2234



K=70 [4.9] · ½" NPT · TFP450				
Part No.	Temp.		Finish Code	Approvals & Listings
SIN TY2234	°C	°F		UL
518731155	68	[155]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
568733135	59	139	68°C, 155°F	Pure White (RAL9010)
568734135	59	139	68°C, 155°F	Signal White (RAL9003)
568739135	59	139	68°C, 155°F	Chrome
56873X135	59	139	68°C, 155°F	Custom Paint

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII

Concealed Horizontal Sidewall

K Factor	K= 60 (4.2)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	71°C (160°F) - Sprinkler, 59°C (139°F) - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Brass, Brushed Chrome, Custom
SIN	TY2324
Wrench Type	W-TYPE 37
Tech Data Sheet	**TFP445**

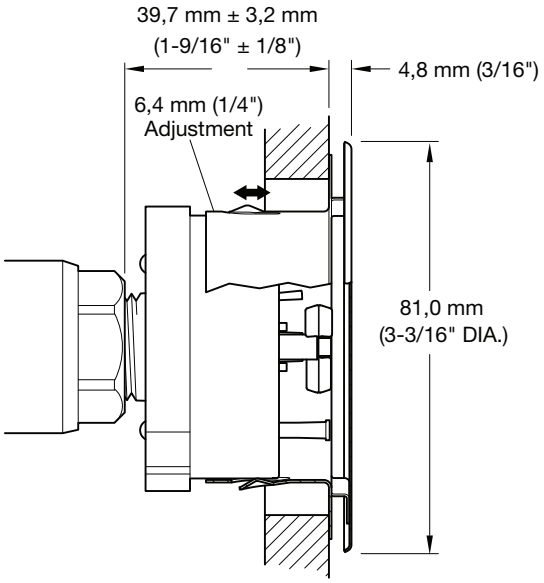
Solder type ■ Can be used for horizontal and sloped ceilings ■ Cover plate conceals sprinkler components above the ceiling

Intended for use in the following scenarios:

- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=60 (4.2), ½" NPT

Concealed HSW • K=60,5 [4.2]
½" NPT • SIN TY2324



K=60 [4.2] • ½" NPT • TFP445						
Part No.	Temp.			Approvals & Listings		
HSW SIN TY2324	°C	°F	Finish Code	UL	C-UL	NSF/ANSI61
505201160	71	160	1	√	√	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
562040135	59	139	71°C, 160°F	Ivory (RAL1015)
562042135	59	139	71°C, 160°F	Beige (RAL1001)
562043135	59	139	71°C, 160°F	Pure White (RAL9010)
562044135	59	139	71°C, 160°F	Signal White (RAL9003)
562045135	59	139	71°C, 160°F	Grey White (RAL9002)
562046135	59	139	71°C, 160°F	Brown (RAL8028)
562047135	59	139	71°C, 160°F	Black (RAL9005)
562048135	59	139	71°C, 160°F	Brushed Brass
562049135	59	139	71°C, 160°F	Brushed Chrome
56204X135	59	139	71°C, 160°F	Custom Paint

Rapid Response® Sprinklers

LFII

Cover Plate & Protective Cap Utility Tool for Concealed Sprinklers

Used with the following Sprinklers	TY2524, TY3531, TY3532, TY3551, TY3596
Tech Data Sheet	**Contact Customer Service for details: tfsbpintlcustservices@tycoint.com**

Install and remove cover plates for LFII, RFII, and RFIII concealed sprinklers ■ Also used for removing protective caps before cover plate installation

LFII

Dry Type Recessed Pendent

K Factor	K= 70 (4.9)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, NSF/ANSI 61
Temperature	68°C (155°F) 79°C (175°F) (wet pipe only)
Escutcheon Finish	Signal White, Chrome Plated, Natural Brass
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2235
Wrench Type	W-TYPE 7
Tech Data Sheet	**TFP460**

3 mm bulb type ■ Where sprinklers are required on dry pipe systems that are exposed to freezing temperatures, or where sprinklers are seasonally drained to avoid freezing ■ Offer the features of non-water filled pipe in addition to not having to increase the number of design sprinklers (hydraulic design area) for systems designed to NFPA 13, 13D, or 13R

Intended for use in the following residential sprinkler systems scenarios:
- one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- the residential portions of any occupancy per NFPA 13

P/N* 63 — XXX — X — XXX

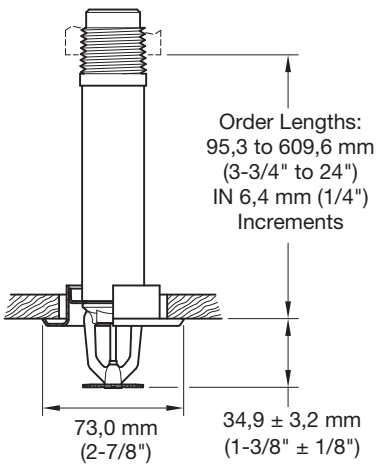
		SIN
10	PENDENT WITH RECESSED ESCUTCHEON	TY2235

	TEMPERATURE RATING
1	155°F (68°C)
2	175°F (79°C)**

	SPRINKLER FINISH	ESCUTCHEON FINISH
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
9	CHROME PLATED	CHROME PLATED

	ORDER LENGTH (EXAMPLES)
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
240	24.00 in.

Notes:
* Use Prefix "I" for ISO 7-R 1 Inlet Thread Connection (e.g., I-63-101-9-180)
** Wet pipe system only



Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Rapid Response® Sprinklers

LFII

Dry Type Recessed Horizontal Sidewall

K Factor	K= 63 (4.4)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, NSF/ANSI 61
Temperature	68°C (155°F)
Escutcheon Finish	Signal White, Chrome Plated, Natural Brass
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2335
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP461**

3 mm bulb type ■ The Series LFII Dry Type Residential Horizontal Sidewall Sprinklers are typically used where sprinklers and/or a portion of the connecting piping are exposed to freezing temperatures ■ Offer the features of non-water filled pipe in addition to not having to increase the number of design sprinklers (hydraulic design area) for systems designed to NFPA 13, 13D, or 13R

Intended for use in the following residential sprinkler systems scenarios:
- one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- the residential portions of any occupancy per NFPA 13

P/N* 63 — XXX — X — XXX

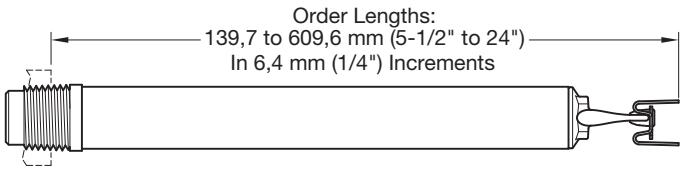
		SIN
12	HORIZONTAL SIDEWALL WITH RECESSED ESCUTCHEON	TY2335
13	HORIZONTAL SIDEWALL WITHOUT ESCUTCHEON	TY2335

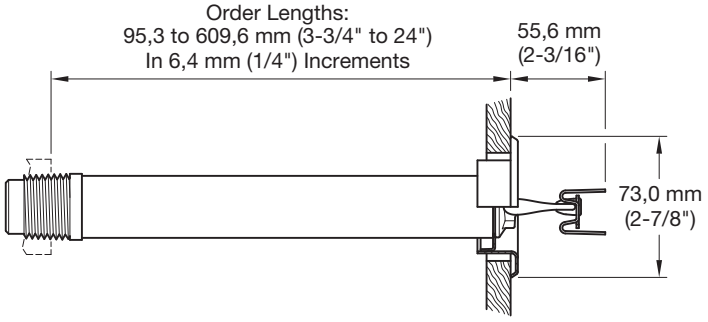
	TEMPERATURE RATING
1	155°F (68°C)

	SPRINKLER FINISH	ESCUTCHEON FINISH
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
9	CHROME PLATED	CHROME PLATED

	ORDER LENGTH (EXAMPLES)
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
240	24.00 in.

Notes:
* Use Prefix "I" for ISO 7-R 1 Inlet Thread Connection (e.g., I-63-121-9-180)





Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII · NFPA 13 Optimised Sprinklers

The large orifice K=99 (6.9), K=83 (5.8), and K=80 (5.6) sprinklers are primarily intended for residential use where there is a 0.1 gpm/sq. ft. density NFPA 13 design requirement, and are generally used for installations in excess of four stories. They are optimised for residential applications where this higher water-flow demand is required, and can meet those requirements with less pressure and smaller pipe sizes.

Pendent, Recessed Pendent & Domed Concealed

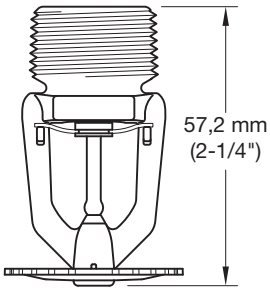
K Factor	K= 99 (6.9)
Thread Size	¾" NPT
Approvals	UL, C-UL, FM, NYC, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F), 59°C (139°F) - Cover Plate
Escutcheon	Style 30
Escutcheon & Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
Cover Plate Finish	Pure White, Signal White, Chrome, Custom
SIN	TY4234
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP408**

3 mm bulb type

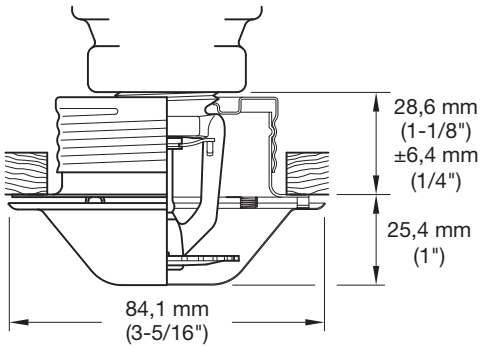
Intended for use in the following scenarios:
- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=99 (6.9), ¾" NPT

Pendent · K=99 [6.9]
¾" NPT · SIN TY4234



Concealed Pendent · K=99,4 [6.9]
¾" NPT · SIN TY4234



K=99 [6.9] · ¾" NPT · TFP408						
Part No.	Temp.		Finish Code	Approvals & Listings		
Pendent SIN TY4234	°C	°F		FM	UL	NSF/ ANSI61
510691155	68	[155]	1	√	√	√
510691175	79	[175]	1	√	√	√
510693155	68	[155]	3	√	√	√
510693175	79	[175]	3	√	√	√
510694155	68	[155]	4	√	√	√
510694175	79	[175]	4	√	√	√
510699155	68	[155]	9	√	√	√
510699175	79	[175]	9	√	√	√

K=99 [6.9] · ¾" NPT · TFP408				
Part No.	Temp.		Finish Code	Approvals & Listings
Concealed Pendent Sprinkler Assembly	°C	°F		UL
510681155	68	[155]	1	√
510681175	79	[175]	1	√

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
568733135	59	139	68°C, 155°F	Pure White (RAL9010)
568734135	59	139	68°C, 155°F	Signal White (RAL9003)
568739135	59	139	68°C, 155°F	Chrome
56873X135	59	139	68°C, 155°F	Custom Paint

Finish Code: 1=Plain Brass,3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Rapid Response® Sprinklers

LFII · NFPA 13 Optimised Sprinklers

The large orifice K=99 (6.9), K=83 (5.8), and K=80 (5.6) sprinklers are primarily intended for residential use where there is a 0.1 gpm/sq. ft. density NFPA 13 design requirement, and are generally used for installations in excess of four stories. They are optimised for residential applications where this higher water-flow demand is required, and can meet those requirements with less pressure and smaller pipe sizes.

Horizontal & Recessed Horizontal Sidewall Sprinklers

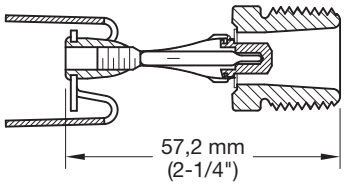
K Factor	K= 83 (5.8)
Thread Size	½" NPT
Approvals	UL, C-UL, FM, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY4334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP417**

3 mm bulb type ■ Can be used for horizontal and sloped ceilings

Intended for use in the following scenarios:
- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=83 (5.8), ½" NPT

Horizontal Sidewall · K=83 [5.8]
½" NPT · SIN TY4334



K=83 [5.8] · ½" NPT · TFP417						
Part No.	Temp.		Finish Code	Approvals & Listings		
HSW SIN TY4334	°C	°F		FM	UL	NSF/ ANSI61
515341155	68	[155]	1	√	√	√
515341175	79	[175]	1	√	√	√
515344155	68	[155]	4	√	√	√
515344175	79	[175]	4	√	√	√
515349155	68	[155]	9	√	√	√
515349175	79	[175]	9	√	√	√

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

LFII · NFPA 13 Optimised Sprinklers

The large orifice K=99 (6.9), K=83 (5.8), and K=80 (5.6) sprinklers are primarily intended for residential use where there is a 0.1 gpm/sq. ft. density NFPA 13 design requirement, and are generally used for installations in excess of four stories. They are optimised for residential applications where this higher water-flow demand is required, and can meet those requirements with less pressure and smaller pipe sizes.

Horizontal & Recessed Horizontal Sidewall Sprinklers

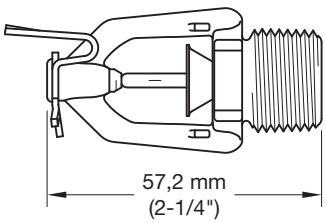
K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	68°C (155°F), 79°C (175°F)
Escutcheon	Style 20
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY3334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP415**

3 mm bulb type ■ Can be used for horizontal and sloped ceilings

Intended for use in the following scenarios:
- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 [5.6]
½" NPT · SIN TY3334



K=80 [5.6] · ½" NPT · TFP415					
Part No.	Temp.		Finish Code	Approvals & Listings	
HSW SIN TY3334	°C	°F		UL	NSF/ANSI61
515241155	68	[155]	1	√	√
515241175	79	[175]	1	√	√
515243155	68	[155]	3	√	√
515243175	79	[175]	3	√	√
515244155	68	[155]	4	√	√
515244175	79	[175]	4	√	√
515249155	68	[155]	9	√	√
515249175	79	[175]	9	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

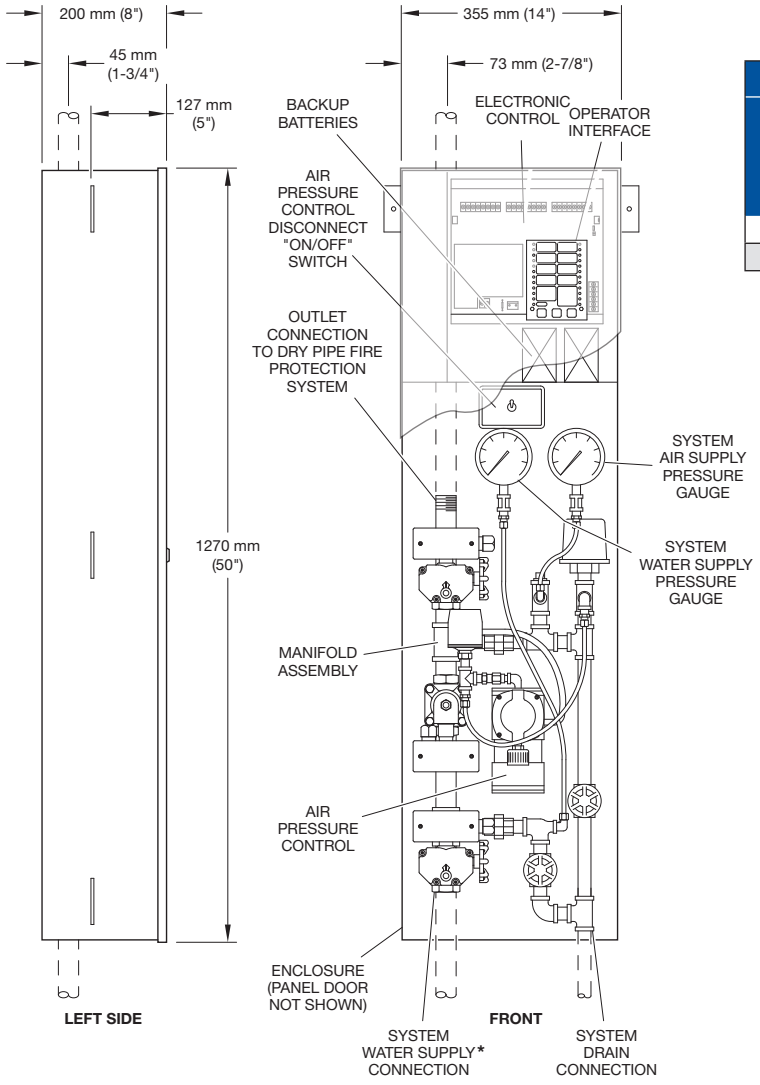
Rapid Response® Sprinklers

RCP-1

Residential Control Panel

Size Range	DN25 or DN40 (1" or 1-½")
Approvals	UL Listed
Maximum Water Pressure	20,7 bar (300 psi)
Air Pressure	0,7 bar (10 psi) to 4,5 bar (65 psi)
System	For use in residential dry pipe fire protection systems
Tech Data Sheet	**TFP480**

Model RCP-1 Residential Control Panel is an integrated valve manifold, air pressure, and electronic control package for controlling the release of water into residential dry pipe sprinkler systems ■ Pre-wired assembly containing pre-programmed control panel, system performance gauges, and an enclosed compressor ■ Supervised system valve system ■ Pre-engineered riser design ■ 48-hour battery backup



RCP-1 · TFP480		
Part No.	System Size	Approvals & Listings
		UL
523102601	1"	√
523102602	1-½"	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry Sprinklers

Specifically designed for areas where sprinklers may be subjected to freezing conditions.

- Unheated Warehouses
- Loading Docks
- Covered Exterior Platforms

Dry Sprinklers

DS-1

Pendent, Upright & Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	Upright & HSW = UL, C-UL, FM, NYC, CE, Fire Academy of Russia, LPCB Pendent = UL, C-UL,CE, FM, NYC, LPCB, Fire Academy of Russia, VdS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3255, TY3155, TY3355
Wrench Type	W-Type 7
Tech Data Sheet	**TFP500**

Standard coverage ■ All hazards (light hazards, horizontal sidewall) ■ 5 mm bulb ■ Lengths up to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates ■ Designed for use in applications requiring dry sprinklers, or where building construction or aesthetic considerations make the installation of dry horizontal sidewall sprinklers more desirable than the dry pendent type

P/N* 60 – XXX – X – XXX

		SIN
96	Pendent with Standard Escutcheon (1 in. NPT)	TY3255 (Figure 3)
93	Pendent with Deep Escutcheon (1 in. NPT)	TY3255 (Figure 5)
97	Pendent with Recessed Escutcheon (1 in. NPT)	TY3255 (Figure 4)
92	Pendent without Escutcheon (1 in. NPT)	TY3255 (Figure 6)
94	Sidewall with Standard Escutcheon (1 in. NPT)	TY3355 (Figure 8)
53	Sidewall with Deep Escutcheon (1 in. NPT)	TY3355 (Figure 9)
54	Sidewall without Escutcheon (1 in. NPT)	TY3355 (Figure 10)
98	Upright without Escutcheon (1 in. NPT)	TY3155 (Figure 7)

	SPRINKLER FINISH	ESCUTCHEON FINISH(1)
0	CHROME PLATED	SIGNAL WHITE (RAL9003) POLYESTER
1	NATURAL BRASS	SIGNAL WHITE (RAL9003) POLYESTER
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
9	CHROME PLATED	CHROME PLATED

	TEMPERATURE RATING(2)
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)
5	360°F (182°C)

	ORDER LENGTH(3)
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes:
1. Escutcheon Finish applies to sprinklers provided with escutcheons.
2. 360°F (182°C) temperature rating applies to non-recessed sprinkler assemblies.
3. Dry-type Sprinklers are furnished based upon "Order Length" as measured per Figures 3 through 10, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment.

* Use Prefix "I" for ISO 7-R 1 Connection (e.g., I-60-961-1-180).

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-1 - Pendent, Upright & Horizontal Sidewall

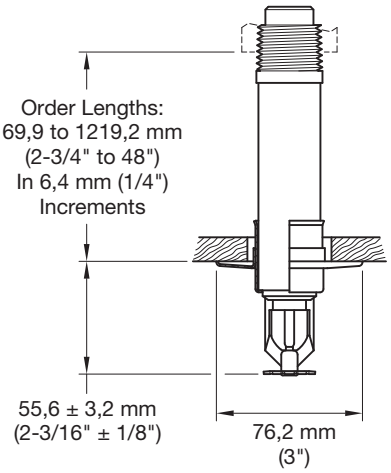


Figure 3 (TY3255)
Pendent
With Standard Escutcheon

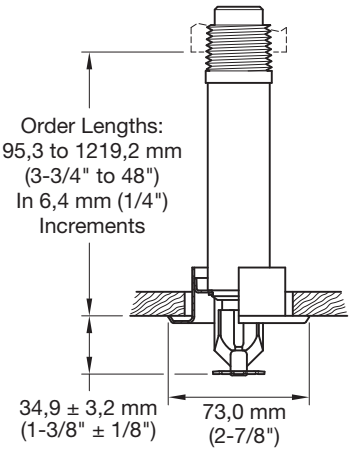


Figure 4 (TY3255)
Pendent With Standard
Recessed Escutcheon

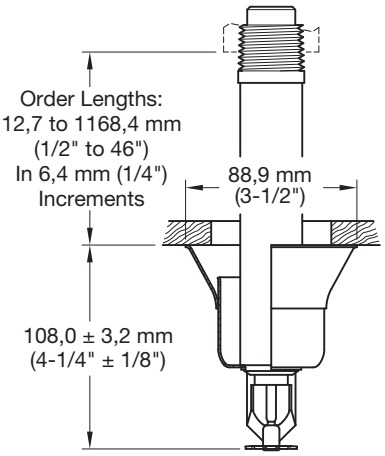


Figure 5 (TY3255)
Pendent
With Deep Escutcheon

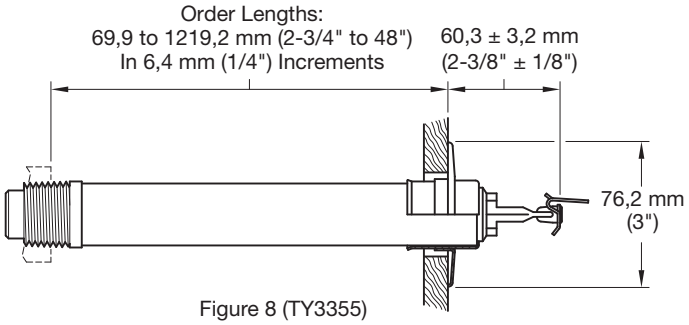


Figure 8 (TY3355)
Horizontal Sidewall With Standard Escutcheon

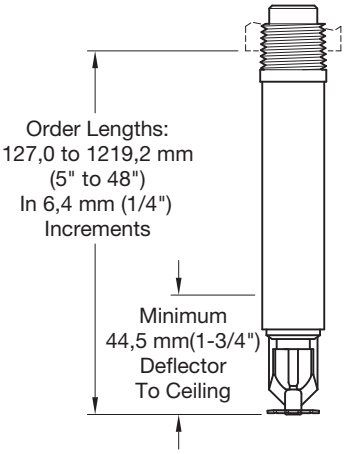


Figure 6 (TY3255)
Pendent
Without Escutcheon

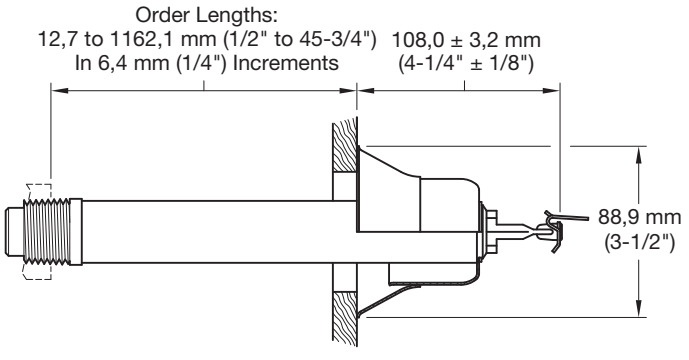


Figure 9 (TY3355)
Horizontal Sidewall With Deep Escutcheon

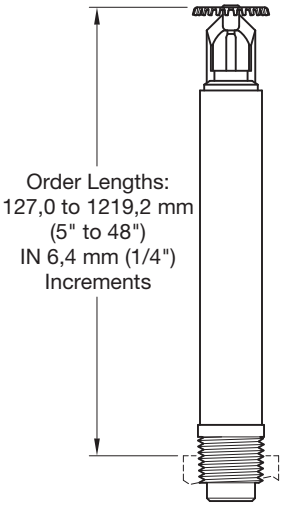


Figure 7 (TY3155)
Upright
Without Escutcheon

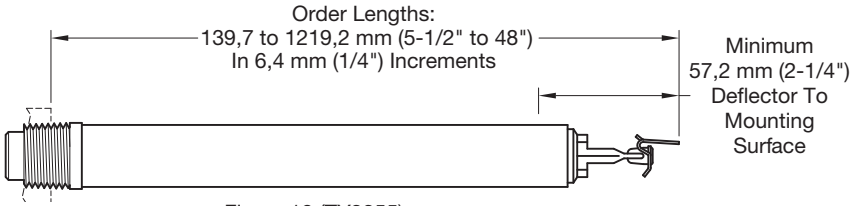


Figure 10 (TY3355)
Horizontal Sidewall Without Escutcheon

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry Sprinklers

DS-1

Pendent, Upright & Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	¾" NPT, 1" NPT (Std. Order) or ISO 7-R1
Approvals	¾"= UL, C-UL 1"= UL, C-UL, FM, NYC, Fire Academy of Russia
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3235, TY3135, TY3335, TY3935, TY3735
Wrench Type	W-Type 7
Tech Data Sheet	**TFP510**

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates ■ Designed for use in applications requiring dry sprinklers, or where building construction or aesthetic considerations make the installation of dry horizontal sidewall sprinklers more desirable than the dry pendent type

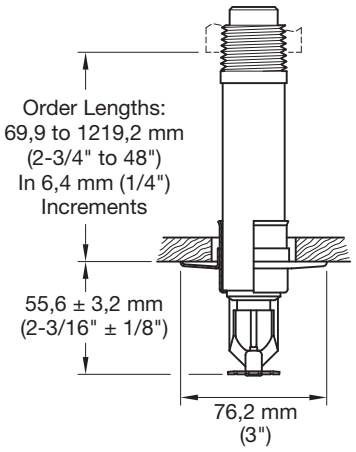


Figure 3
Pendent 1" TY3235 And ¾" TY3935
With Standard Escutcheon

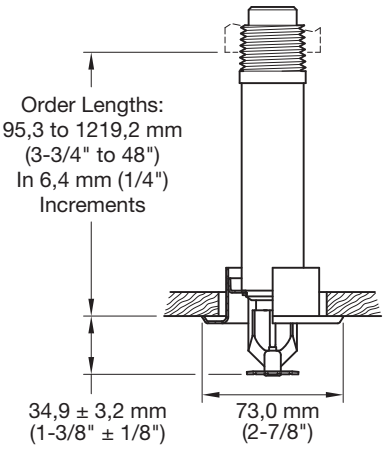


Figure 4
Pendent 1" TY3235 And ¾" TY3935
With Recessed Escutcheon

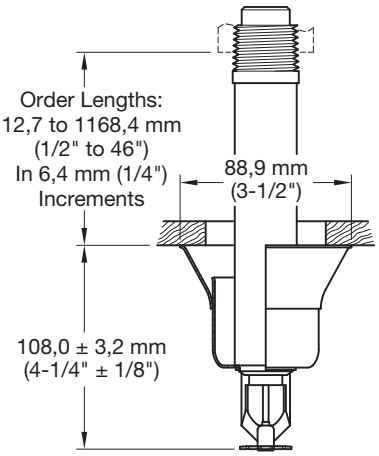


Figure 5
Pendent 1" TY3235 And ¾" TY3935
With Deep Escutcheon

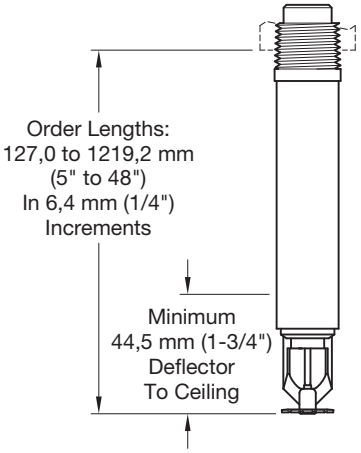


Figure 6
Pendent 1" TY3235
And ¾" TY3935
Without Escutcheon

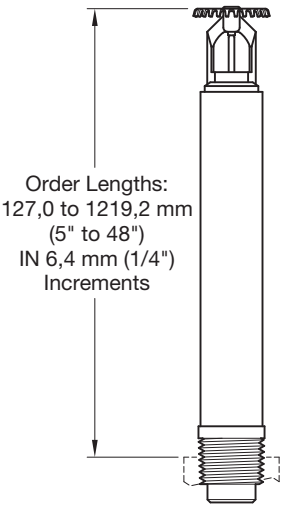


Figure 7
Upright TY3135
Without Escutcheon
1" NPT Only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

P/N* 60 – XXX – X – XXX

		SIN
01	Pendent with Standard Escutcheon (3/4" NPT)	TY3935 (Figure 3)
02	Pendent with Deep Escutcheon (3/4" NPT)	TY3935 (Figure 5)
03	Pendent with Recessed Escutcheon (3/4" NPT)	TY3935 (Figure 4)
04	Pendent without Escutcheon (3/4" NPT)	TY3935 (Figure 6)
05	Sidewall with Standard Escutcheon (3/4" NPT)	TY3735 (Figure 8)
06	Sidewall with Deep Escutcheon (3/4" NPT)	TY3735 (Figure 9)
07	Sidewall without Escutcheon (3/4" NPT)	TY3735 (Figure 10)
36	Pendent with Standard Escutcheon (1" NPT)	TY3235 (Figure 3)
33	Pendent with Deep Escutcheon (1" NPT)	TY3235 (Figure 5)
37	Pendent with Recessed Escutcheon (1" NPT)	TY3235 (Figure 4)
32	Pendent without Escutcheon (1" NPT)	TY3235 (Figure 6)
34	Sidewall with Standard Escutcheon (1" NPT)	TY3335 (Figure 8)
43	Sidewall with Deep Escutcheon (1" NPT)	TY3335 (Figure 9)
44	Sidewall without Escutcheon (1" NPT)	TY3335 (Figure 10)
38	Upright without Escutcheon (1" NPT)	TY3135 (Figure 7)

	SPRINKLER FINISH	ESCUTCHEON FINISH[1]
0	CHROME PLATED	SIGNAL WHITE (RAL9003)
1	NATURAL BRASS	SIGNAL WHITE (RAL9003)
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003)	SIGNAL WHITE (RAL9003)
9	CHROME PLATED	CHROME PLATED

	TEMPERATURE RATINGS
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)

	SAMPLE ORDER LENGTHS[2]
055	5.50”
082	8.25”
180	18.00”
187	18.75”
372	37.25”
480	48.00”

Notes:
1. Escutcheon Finish applies to sprinklers provided with escutcheons.
2. Dry-Type Sprinklers are furnished based upon “Order Length” as measured per Figures 3 through 10, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment.

* Use Prefix “I” for ISO 7-R 1 Connection (e.g., I-60-010-4-055).

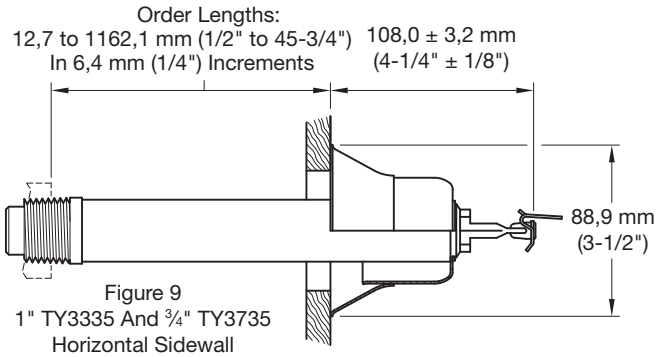


Figure 9
1" TY3335 And ¾" TY3735
Horizontal Sidewall
With Deep Escutcheon

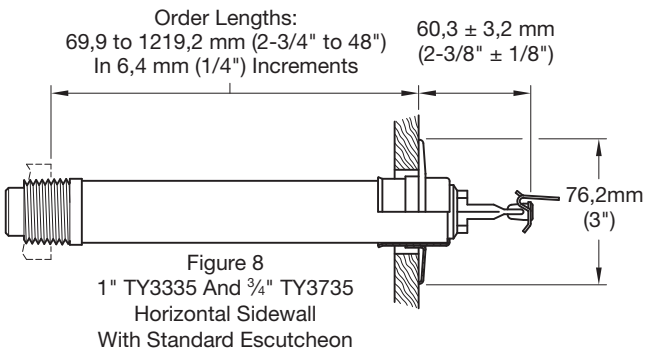


Figure 8
1" TY3335 And ¾" TY3735
Horizontal Sidewall
With Standard Escutcheon

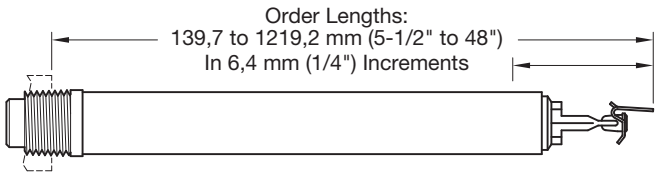
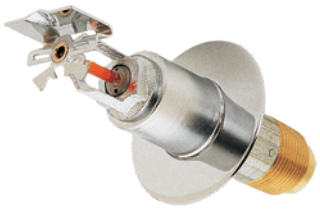


Figure 10
1" TY3335 And
¾" TY3735
Horizontal Sidewall
Without Escutcheon

Dry Sprinklers

DS-1

Extended Coverage Horizontal Sidewall



K Factor	K= 80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	57°C (135°F), 68°C (155°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3338, TY3358
Wrench Type	W-Type 7
Tech Data Sheet	**TFP520**

EC light hazard ■ 3mm and 5mm Glass Bulb ■ Lengths up to 1220 mm (48") ■ Designed for use in light hazard occupancy applications requiring a dry sprinkler to cover areas up to: 4,9 m x 6,1 m (16′ x 20′) or 5,5 m x 4,9 m (18′ x 16′) ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates

P/N* 60 – XXX – X – XXX

		SIN
350	EC Sidewall 3 mm Bulb (1 in. NPT), 135°F (57°C)	TY3338
351	EC Sidewall 3 mm Bulb (1 in. NPT), 155°F (68°C)	TY3338
950	EC Sidewall 5 mm Bulb (1 in. NPT), 135°F (57°C)	TY3358
951	EC Sidewall 5 mm Bulb (1 in. NPT), 155°F (68°C)	TY3358

	SPRINKLER FINISH	ESCUTCHEON FINISH
0	CHROME PLATED	SIGNAL WHITE (RAL9003)
1	NATURAL BRASS	SIGNAL WHITE (RAL9003)
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003)	SIGNAL WHITE (RAL9003)
9	CHROME PLATED	CHROME PLATED

	ORDER LENGTH**
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes:
* Use Prefix "I" for ISO 7-R 1 Connection (e.g., I-60-351-1-180).
** Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figure 2. After the measurement is taken, round it to the nearest 1/4 inch increment.

DS-1 - Extended Coverage Horizontal Sidewall

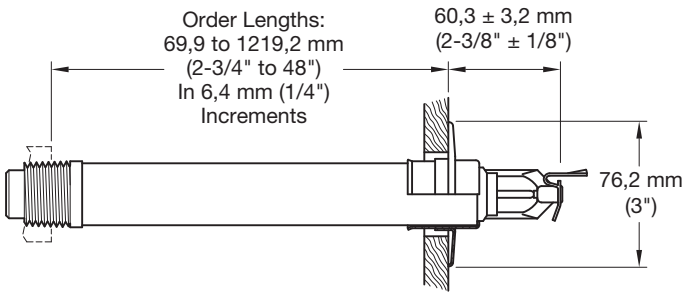


Figure 2
Extended Coverage Horizontal Sidewall With Standard Escutcheon
TY3338 (3 mm Bulb) And TY3358 (5 mm Bulb)

Dry Sprinklers

DS-1 Stainless Steel

Pendent

K Factor	K= 80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	TY3230 = UL, C-UL TY3250 = UL, C-UL, LPCB, CE
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Finish	Stainless Steel
Sprinkler Finish	Stainless Steel
SIN	TY3230, TY3250
Wrench Type	W-Type 7
Tech Data Sheet	**TFP560**

3mm and 5mm Glass Bulb ■ Quick and Standard Response ■ The stainless-steel construction of these sprinklers extends the life of a sprinkler beyond that of traditional copper alloy sprinklers exposed to corrosive atmospheres ■ Wet-pipe, dry-pipe, or preaction installations ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates.

P/N* 60 – XXX – X– XXX

		SIN
11	**SS Pendent Quick Response** with Standard Escutcheon (1 in. NPT)	TY3230 (Figure 10)
12	**SS Pendent Quick Response** with Recessed Escutcheon (1 in. NPT)	TY3230 (Figure 11)
13	**SS Pendent Quick Response** with Deep Escutcheon (1 in. NPT)	TY3230 (Figure 12)
14	**SS Pendent Quick Response** without Escutcheon (1 in. NPT)	TY3230 (Figure 13)
21	**SS Pendent Standard Response** with Standard Escutcheon (1 in. NPT)	TY3250 (Figure 10)
22	**SS Pendent Standard Response** with Recessed Escutcheon (1 in. NPT)	TY3250 (Figure 11)
23	**SS Pendent Standard Response** with Deep Escutcheon (1 in. NPT)	TY3250 (Figure 12)
24	**SS Pendent Standard Response** without Escutcheon (1 in. NPT)	TY3250 (Figure 13)

	FINISH
6	Stainless Steel for Sprinkler and Escutcheon

	TEMPERATURE RATING[2][3]
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)
5	360°F (182°C)

	ORDER LENGTH EXAMPLES[1]
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes:
1. Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figures 10 through 17 and for each individual sprinkler where it is to be installed. After taking the measurement, round it to the nearest 1/4 inch increment.
2. Temperature rating 360°F (182°C) applies to non-recessed sprinkler assemblies.

* Use Prefix "I" for ISO 7-R 1 Connection (e.g., I-60-110-6-055).

DS-1 Stainless Steel - Pendent

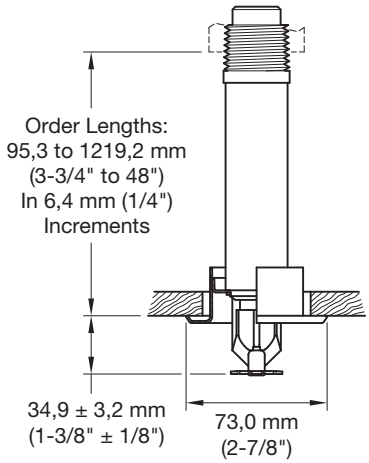


Figure 10
Pendent With Standard Escutcheon
TY3230 (3 mm Bulb)
And TY3250 (5 mm Bulb)

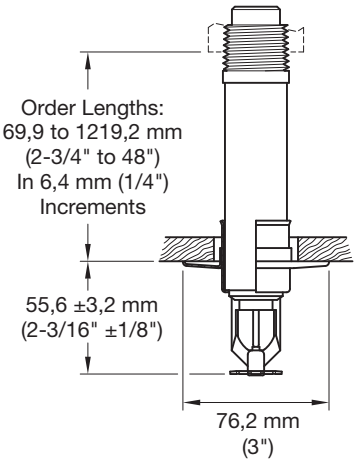


Figure 11
Pendent With Recessed Escutcheon
TY3230 (3 mm Bulb)
And TY3250 (5 mm Bulb)

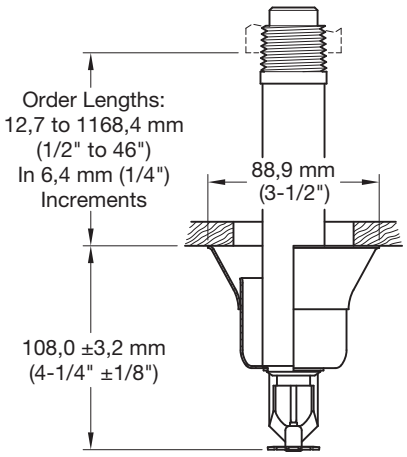


Figure 12
Pendent With Deep Escutcheon
TY3230 (3 mm Bulb)
And TY3250 (5 mm Bulb)

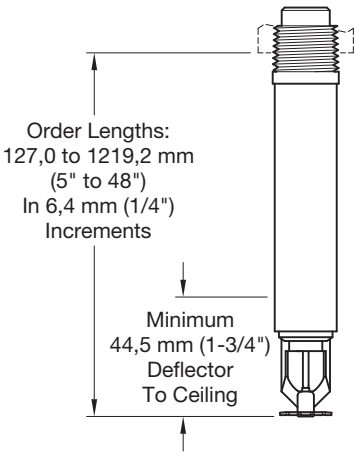


Figure 13
Pendent Without Escutcheon
TY3230 (3 mm Bulb) And
TY3250 (5 mm Bulb)

Dry Sprinklers

DS-1 Stainless Steel

Horizontal Sidewall, and Extended Coverage Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Finish	Stainless Steel
Sprinkler Finish	Stainless Steel
SIN	TY3337, TY3357, TY3339
Wrench Type	W-Type 7
Tech Data Sheet	**TFP560**

3mm and 5mm Glass Bulb ■ Quick and Standard Response ■ The stainless-steel construction of these sprinklers extends the life of a sprinkler beyond that of traditional copper alloy sprinklers exposed to corrosive atmospheres ■ Wet-pipe, dry-pipe, or preaction installations ■ Extended coverages protecting areas up to 4,9 x 6,1m (16' x 20') ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates.

P/N* 60 – XXX – X– XXX

		SIN
15	**SS HSW Quick Response Standard Coverage** with Standard Escutcheon (1 in. NPT)	TY3337 (Figure 14)
16	**SS HSW Quick Response Standard Coverage** with Deep Escutcheon (1 in. NPT)	TY3337 (Figure 15)
17	**SS HSW Quick Response Standard Coverage** without Escutcheon (1 in. NPT)	TY3337 (Figure 16)
25	**SS HSW Standard Response Standard Coverage** with Standard Escutcheon (1 in. NPT)	TY3357 (Figure 14)
26	**SS HSW Standard Response Standard Coverage** with Deep Escutcheon (1 in. NPT)	TY3357 (Figure 15)
27	**SS HSW Standard Response Standard Coverage** without Escutcheon (1 in. NPT)	TY3357 (Figure 16)
18	**SS HSW Quick Response Extended Coverage** with Standard Escutcheon (1 in. NPT)	TY3339(3) (Figure 17)

	FINISH
6	Stainless Steel for Sprinkler and Escutcheon

	TEMPERATURE RATING(2)(3)
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)
5	360°F (182°C)

	ORDER LENGTH EXAMPLES(1)
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes:
1. Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figures 10 through 17 and for each individual sprinkler where it is to be installed. After taking the measurement, round it to the nearest 1/4 inch increment.
2. Temperature rating 360°F (182°C) applies to non-recessed sprinkler assemblies.
3. TY3339 HSW Quick Response Extended Coverage sprinkler is available in 135°F (57°C) and 155°F (68°C) temperature ratings only.

* Use Prefix "I" for ISO 7-R 1 Connection (e.g., I-60-110-6-055).

DS-1 Stainless Steel - Horizontal Sidewall, and Extended Coverage Horizontal Sidewall

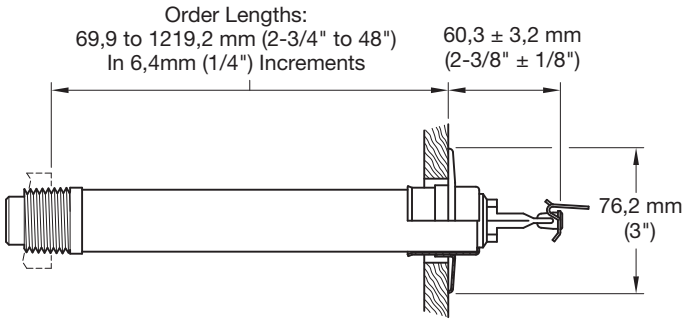


Figure 14
Standard Coverage Horizontal Sidewall
With Standard Escutcheon
TY3337 (3 mm Bulb) And TY3357 (5 mm Bulb)

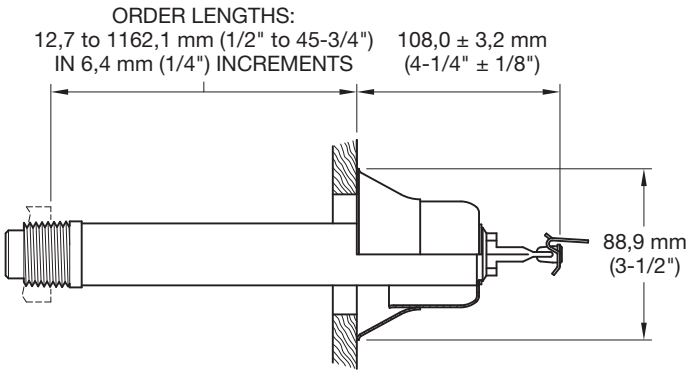


Figure 15
Standard Coverage Horizontal Sidewall
With Deep Escutcheon
TY3337 (3 mm Bulb) And TY3357 (5 mm Bulb)

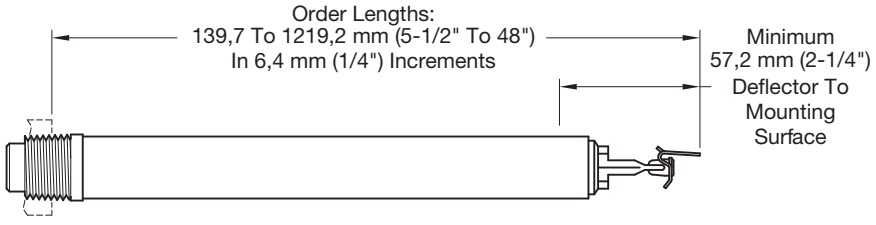


Figure 16
Standard Coverage Horizontal Sidewall Without Escutcheon
TY3337 (3 mm Bulb) And TY3357 (5 mm Bulb)

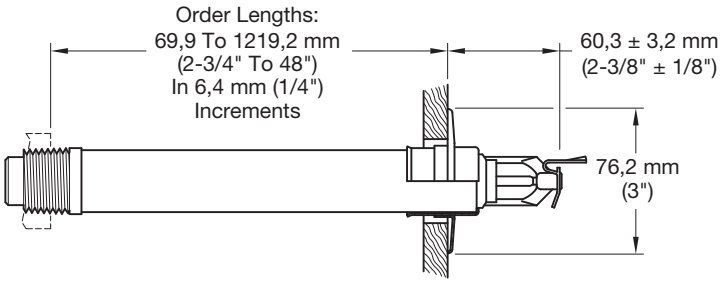


Figure 17
Extended Coverage Horizontal Sidewall Sprinkler With Standard Escutcheon
TY3339 (3 mm Bulb)

Dry Sprinklers

DS-8

Pendent, Standard and Quick Response

K Factor	K=115 (8.0)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Finish	Signal White Polyester, Chrome Plated, Brass Plated, Stainless Steel
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White Polyester
SIN	Standard Response: TY4255, (photo & drawing shown) Quick Response: TY4235
Wrench Type	W-Type 7
Tech Data Sheet	**Standard Response: TFP503 Quick Response: TFP513**

Standard coverage ■ All hazards (light hazards, horizontal sidewall) ■ 5 mm (SR) or 3mm (QR) bulb ■ Lengths up to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates ■ Designed for use in applications requiring dry sprinklers, or where building construction or aesthetic considerations make the installation of dry horizontal sidewall sprinklers more desirable than the dry pendent type

P/N* 65–XXX–X–XXX

	STANDARD RESPONSE, STANDARD COVERAGE	FIGURE REFERENCE
96	Pendent with Standard Escutcheon (1 in. NPT)	Figure 3
93	Pendent with Deep Escutcheon (1 in. NPT)	Figure 5
97	Pendent with Recessed Escutcheon (1 in. NPT)	Figure 4
92	Pendent without Escutcheon (1 in. NPT)	Figure 6

	QUICK RESPONSE, STANDARD COVERAGE	FIGURE REFERENCE
36	Pendent with Standard Escutcheon (1 in. NPT)	Figure 3
33	Pendent with Deep Escutcheon (1 in. NPT)	Figure 5
37	Pendent with Recessed Escutcheon (1 in. NPT)	Figure 4
32	Pendent without Escutcheon (1 in. NPT)	Figure 6

	SPRINKLER FINISH	ESCUTCHEON FINISH[1]
0	CHROME PLATED	SIGNAL WHITE (RAL9003) POLYESTER
1	NATURAL BRASS	SIGNAL WHITE (RAL9003) POLYESTER
2	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
8	CHROME PLATED	STAINLESS STEEL
9	CHROME PLATED	CHROME PLATED

	ORDER LENGTH[3]
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

	TEMPERATURE RATING[2]
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)
5	360°F (182°C)

Notes:
1. Escutcheon Finish applies to sprinklers provided with escutcheons.
2. 360°F (182°C) temperature rating applies to non-recessed sprinkler assemblies.
3. Dry-type Sprinklers are furnished based upon "Order Length" as measured per Figures 3 thru 6, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 in. increment.

* Use Prefix "I" for ISO 7-R 1 Connection (for example, I-65-961-9-180).

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-8 - Pendent, Standard and Quick Response

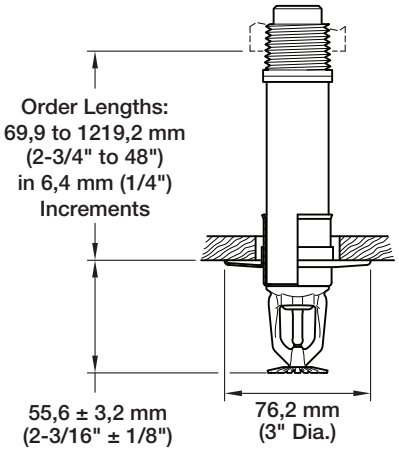


Figure 3
Pendent With Standard Escutcheon
TY4235 (3 mm Bulb)
And TY4255 (5 mm Bulb)

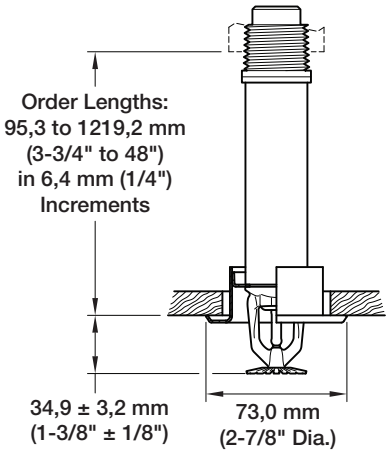


Figure 4
Pendent With Recessed Escutcheon
TY4235 (3 mm Bulb)
And TY4255 (5 mm Bulb)

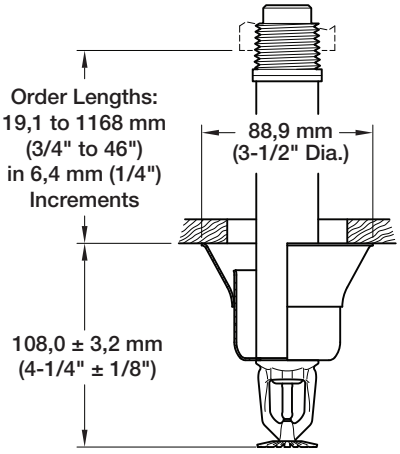


Figure 5
Pendent With Deep Escutcheon
TY4235 (3 mm Bulb)
And TY4255 (5 mm Bulb)

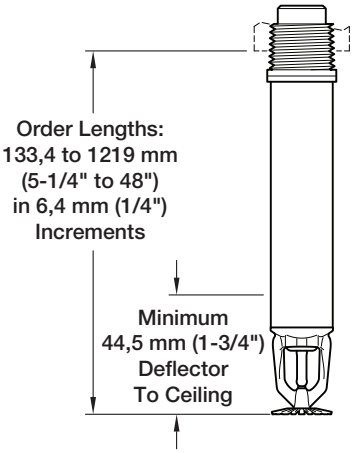


Figure 6
Pendent Without Escutcheon
TY4235 (3 mm Bulb) And
TY4255 (5 mm Bulb)

Dry Sprinklers

DS-2

Pendent

K Factor	K= 161 (11.2)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5255, TY5235
Wrench Type	W-Type 17
Tech Data Sheet	**TFP530**

Standard coverage ■ All hazard (standard response) ■ Light hazard/Ordinary hazard (quick response) ■ 3 mm and 5 mm bulb ■ Extra large orifice ■ Lengths to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates

P/N* 61 – XXX – X – XXX

		SIN
10	Standard Response Pendent with Flush Escutcheon	TY5255 (Figure 2)
11	Standard Response Pendent with Recessed Escutcheon	TY5255 (Figure 3)
12	Standard Response Pendent with Extended Escutcheon	TY5255 (Figure 4)
13	Standard Response Pendent without Escutcheon	TY5255 (Figure 5)
30	Quick Response Pendent with Flush Escutcheon	TY5235 (Figure 2)
31	Quick Response Pendent with Recessed Escutcheon	TY5235 (Figure 3)
32	Quick Response Pendent with Extended Escutcheon	TY5235 (Figure 4)
35	Quick Response Pendent without Escutcheon	TY5235 (Figure 5)

	SPRINKLER FINISH	ESCUTCHEON FINISH[1]
0	CHROME PLATED	SIGNAL WHITE (RAL9003)
1	NATURAL BRASS	SIGNAL WHITE (RAL9003)
4	SIGNAL WHITE (RAL9003)	SIGNAL WHITE (RAL9003)
5	NATURAL BRASS	BRASS PLATED
9	CHROME PLATED	CHROME PLATED

	ORDER LENGTH[2]
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

	TEMPERATURE RATING
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)

Notes:
1. Escutcheon Finish applies to sprinklers with escutcheons.
2. Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figures 2 through 5, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment.

* Use Prefix "I" for ISO 7-R1 Connection (e.g., I-61-101-1-180).

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-2 - Pendent

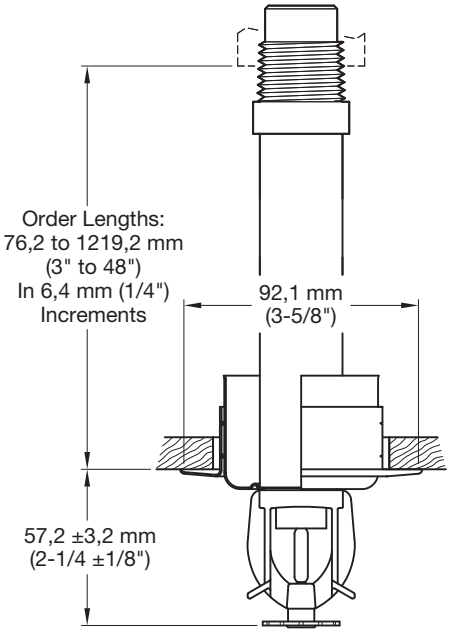


Figure 2
Series Ds-2 Dry-Type Pendent
With Flush Escutcheon
Standard Response (TY5255)
or Quick Response (TY5235)

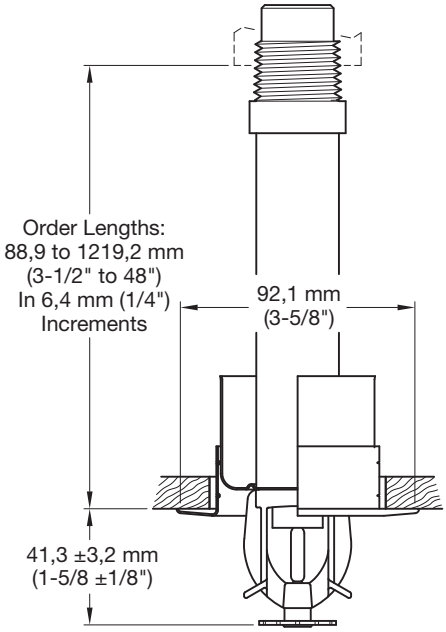


Figure 3
Series Ds-2 Dry-Type Pendent
With Recessed Escutcheon
Standard Response (TY5255)
or Quick Response (TY5235)

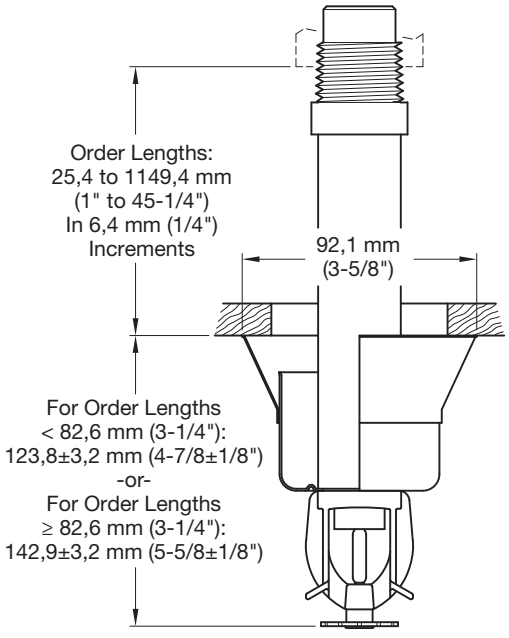


Figure 4
Series Ds-2 Dry-Type Pendent
With Extended Escutcheon
Standard Response (TY5255)
or Quick Response (TY5235)

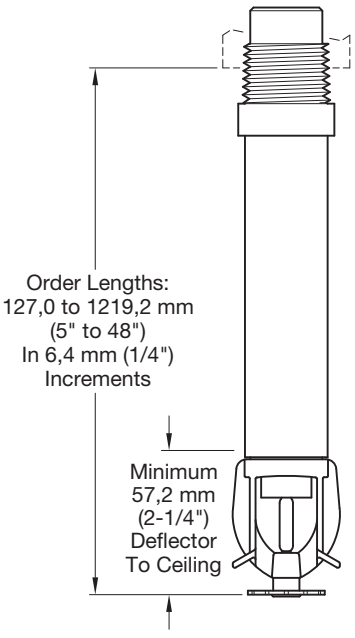


Figure 5
Series Ds-2 Dry-Type Pendent
Without Escutcheon
Standard Response (TY5255)
or Quick Response (TY5235)

Dry Sprinklers

DS-2

Extended Coverage Pendent

K Factor	K= 161 (11.2)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5238
Wrench Type	W-Type 17
Tech Data Sheet	**TFP540**

EC light hazard & ordinary hazard ■ 3 mm bulb ■ Extra large orifice ■ Lengths to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates

P/N* 61 – XXX – X – XXX

		SIN
40	Pendent with Flush Escutcheon	TY5238 (Figure 2)
41	Pendent with Recessed Escutcheon	TY5238 (Figure 3)
42	Pendent with Extended Escutcheon	TY5238 (Figure 4)
43	Pendent without Escutcheon	TY5238 (Figure 5)

Notes:
1. Escutcheon Finish applies to sprinklers with escutcheons.
2. 286°F (141°C) temperature rating applies to non-recessed sprinkler assemblies.
3. Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figures 2 through 5, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment.

* Use Prefix "I" for ISO 7-R 1 Connection (e.g., I-61-431-1-372).

	SPRINKLER FINISH	ESCUTCHEON FINISH(1)
0	CHROME PLATED	SIGNAL WHITE (RAL9003) POLYESTER
1	NATURAL BRASS	SIGNAL WHITE (RAL9003) POLYESTER
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
5	NATURAL BRASS	BRASS PLATED
9	CHROME PLATED	CHROME PLATED

	TEMPERATURE RATING(2)
0	135°F (57°C)
1	155°F (68°C)
2	175°F (79°C)
3	200°F (93°C)
4	286°F (141°C)

	ORDER LENGTH(3)
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-2 - Extended Coverage Pendent

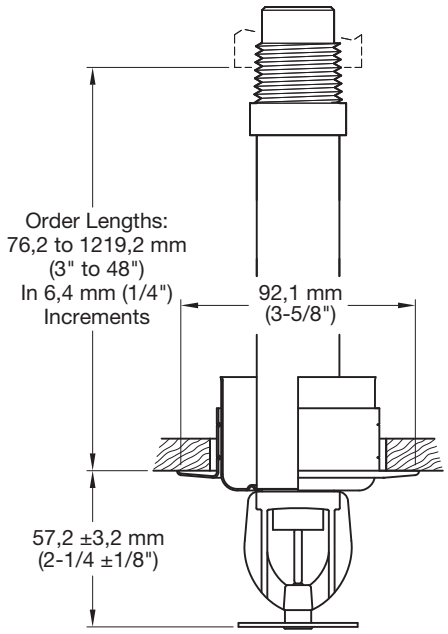


Figure 2
Series DS-2 Dry-Type Pendent Sprinkler
(ECLH/ECOH)
With Flush Escutcheon (TY5238)

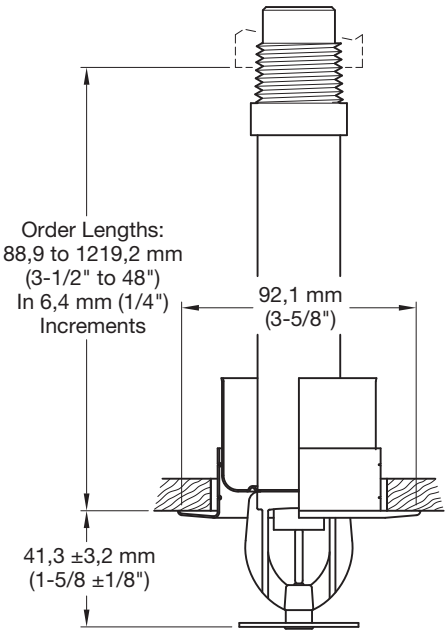


Figure 3
Series DS-2 Dry-Type Pendent Sprinkler
(ECLH/ECOH)
With Recessed Escutcheon (TY5238)

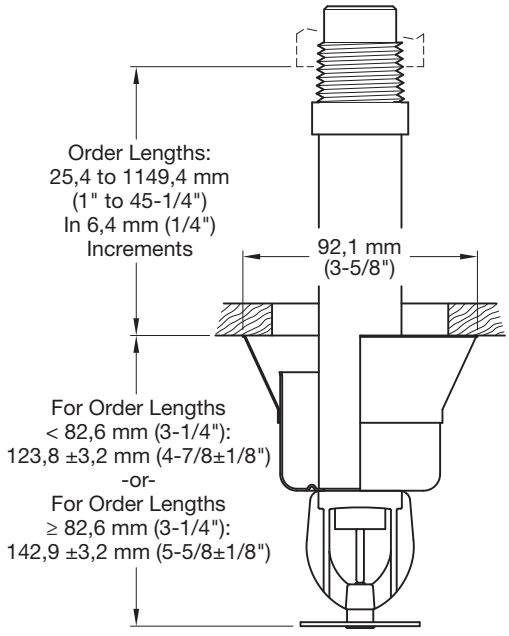


Figure 4
Series DS-2 Dry-Type Pendent Sprinkler
(ECLH/ECOH)
With Extended Escutcheon (TY5238)

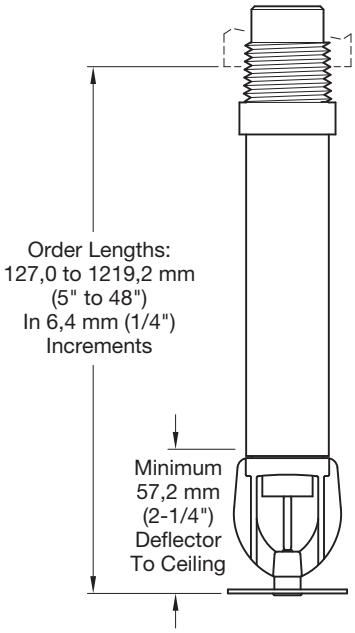


Figure 5
Series DS-2 Dry-Type Pendent Sprinkler
(ECLH/ECOH)
Without Escutcheon (TY5238)

Dry Sprinklers

DS-C

Concealed Pendent

K Factor	K=80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate, 93°C (200°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Grey White, Brass, Pure White, Signal White, Jet Black, Chrome, Custom
SIN	TY3535, TY3555
Wrench Type	RFII
Tech Data Sheet	**TFP515**

Standard coverage ■ All hazard (standard response) ■ Light hazard/ordinary hazard (quick response) ■ 3 mm and 5 mm bulb ■ Lengths to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates.

P/N* 60 – XXX – 1 – XXX

		SIN
46	Quick Response (3 mm Bulb)	TY3535
86	Standard Response (5 mm Bulb)	TY3555

	TEMPERATURE RATING
1	155°F (68°C)
3	200°F (93°C)

	ORDER LENGTH**
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Note
* Use Prefix "I" for ISO 7-R1 Connection (for example, I-60-461-1-180).
** Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figure 2, for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment.

Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
567920135	59	139	68°C, 155°F	Grey White (RAL9002)
567920165	74	165	93°C, 200°F	Grey White (RAL9002)
567921135	59	139	68°C, 155°F	Brass
567921165	74	165	93°C, 200°F	Brass
567923135	59	139	68°C, 155°F	Pure White (RAL9010)
567923165	74	165	93°C, 200°F	Pure White (RAL9010)
567924135	59	139	68°C, 155°F	Signal White (RAL9003)
567924165	74	165	93°C, 200°F	Signal White (RAL9003)
567926135	59	139	68°C, 155°F	Jet Black (RAL9005)
597926165	74	165	93°C, 200°F	Jet Black (RAL9005)
567929135	59	139	68°C, 155°F	Chrome
567929165	74	165	93°C, 200°F	Chrome
56792X135	59	139	68°C, 155°F	Custom
56792X165	74	165	93°C, 200°F	Custom

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-C - Concealed Pendent

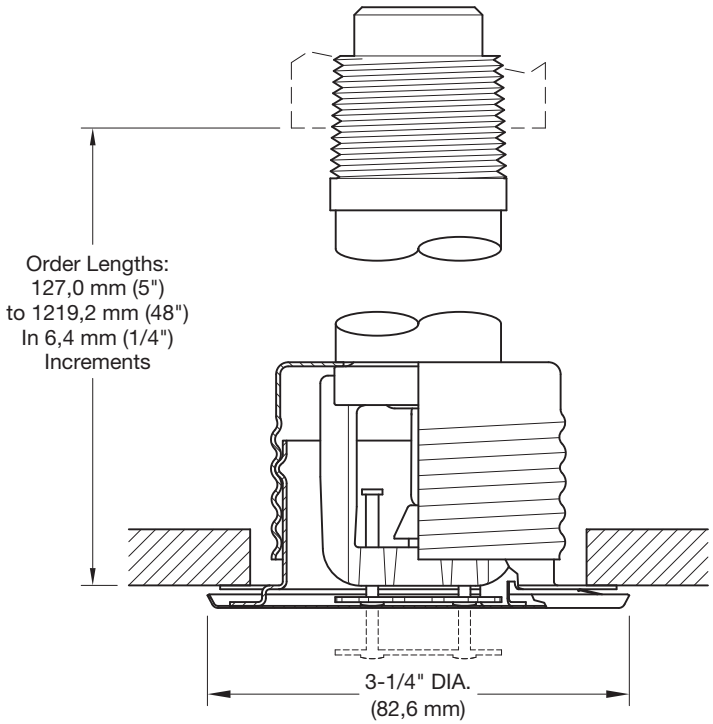


Figure 2
Series DS-C Standard Coverage Dry-Type
Concealed Pendent Sprinkler
TY3535 (3mm Bulb)

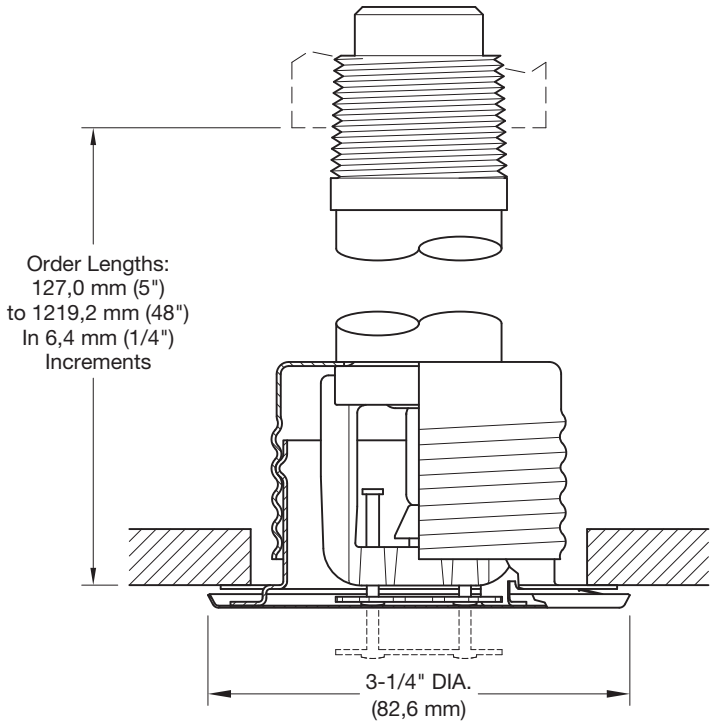


Figure 2
Series DS-C Standard Coverage Dry-Type
Concealed Pendent Sprinkler
TY3555 (5mm Bulb)

Dry Sprinklers

DS-ECC

Extended Coverage Concealed Pendent

K Factor	K= 80 (5.6)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	68°C (155°F) - Sprinkler, 59°C (139°F) - Cover Plate, 93°C (200°F) - Sprinkler, 74°C (165°F) - Cover Plate
Cover Plate Finish	Grey White, Brass, Pure White, Signal White, Jet Black, Chrome, Custom
SIN	TY3539
Wrench Type	RFII
Tech Data Sheet	**TFP518**

EC light hazard/EC ordinary hazard ■ 3 mm bulb ■ Lengths to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates

P/N* 60 – 45X – 1 – XXX

		SIN
45	DS-ECC (3 mm Bulb)	TY3539

TEMPERATURE RATING	
1	155°F (68°C)
3	200°F (93°C)

ORDER LENGTH**	
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes

* Use Prefix "I" for ISO 7-R1 Connection; for example, I-60-451-1-180

** Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figure 2, as applicable, and for each individual sprinkler where it is to be installed. After the measurement is taken, round it to the nearest 1/4 inch increment

Cover Plate				
Part No. Cover Plate	Temp. °C	Temp. °F	For use with Sprinkler Temp.	Cover Plate Finish
567920135	59	139	68°C, 155°F	Grey White (RAL9002)
567920165	74	165	93°C, 200°F	Grey White (RAL9002)
567921135	59	139	68°C, 155°F	Brass
567921165	74	165	93°C, 200°F	Brass
567923135	59	139	68°C, 155°F	Pure White (RAL9010)
567923165	74	165	93°C, 200°F	Pure White (RAL9010)
567924135	59	139	68°C, 155°F	Signal White (RAL9003)
567924165	74	165	93°C, 200°F	Signal White (RAL9003)
567926135	59	139	68°C, 155°F	Jet Black (RAL9005)
597926165	74	165	93°C, 200°F	Jet Black (RAL9005)
567929135	59	139	68°C, 155°F	Chrome
567929165	74	165	93°C, 200°F	Chrome
56792X135	59	139	68°C, 155°F	Custom
56792X165	74	165	93°C, 200°F	Custom

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DS-ECC - Extended Coverage Concealed Pendent

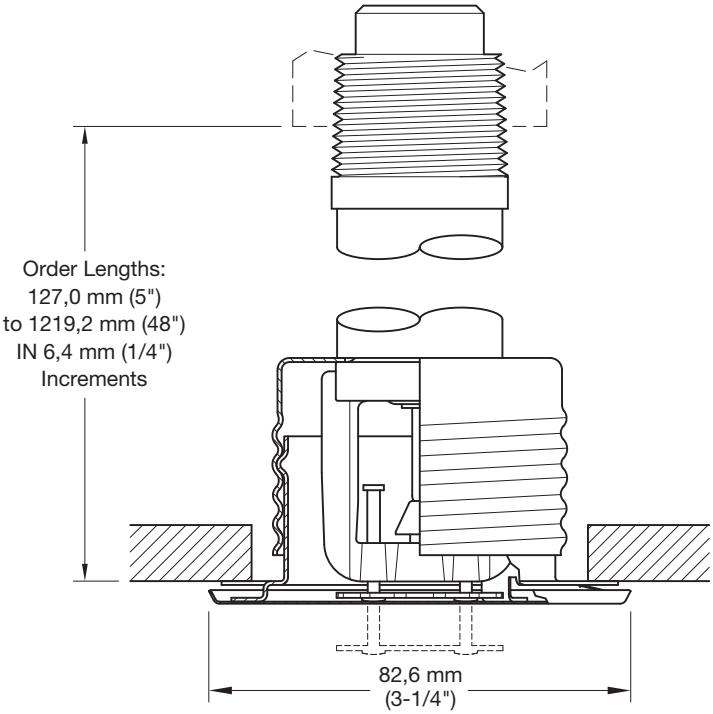


Figure 2
Series DS-ECC Extended Coverage Dry-Type
Pendent Concealed Sprinkler

Dry Sprinklers

DS-3

Extended Coverage Horizontal Sidewall

K Factor	K= 161 (11.2)
Thread Size	1" NPT (Standard Order), ISO 7-R1
Approvals	UL, C-UL
Temperature	68°C (155°F), 93°C (200°F)
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5339
Wrench Type	W-Type 8
Tech Data Sheet	**TFP550**

EC ordinary hazard ■ 3 mm bulb ■ Lengths to 1220 mm (48") ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Ideal for Exterior Loading Docks and Covered Areas and can eliminate the need for dry or anti-freeze systems.

P/N* 61 — XXX — X — XXX

ESCUTCHEON TYPE	
161	Flush Escutcheon (1 in. NPT), 155°F (68°C)
163	Flush Escutcheon (1 in. NPT), 200°F (93°C)
171	Deep Escutcheon (1 in. NPT), 155°F (68°C)
173	Deep Escutcheon (1 in. NPT), 200°F (93°C)
151	Without Escutcheon (1 in. NPT), 155°F (68°C)
153	Without Escutcheon (1 in. NPT), 200°F (93°C)

	SPRINKLER FINISH	ESCUTCHEON FINISH[1]
1	NATURAL BRASS	BRASS PLATED
4	SIGNAL WHITE (RAL9003) POLYESTER	SIGNAL WHITE (RAL9003) POLYESTER
9	CHROME PLATED	CHROME PLATED
0	CHROME PLATED	SIGNAL WHITE (RAL9003) POLYESTER

	ORDER LENGTH[2]
055	5.50 in.
082	8.25 in.
180	18.00 in.
187	18.75 in.
372	37.25 in.
480	48.00 in.

Notes:
1. Does not apply to assemblies without escutcheon.
2. Dry-Type Sprinklers are furnished based upon "Order Length" as measured per Figures 2, 3 & 4.
3. After the measurement is taken, round it to the nearest 1/4 inch increment.

* Use Prefix "I" for ISO 7-R1 Connection (e.g., I-61-161-1-055).

DS-3 - Extended Coverage Horizontal Sidewall

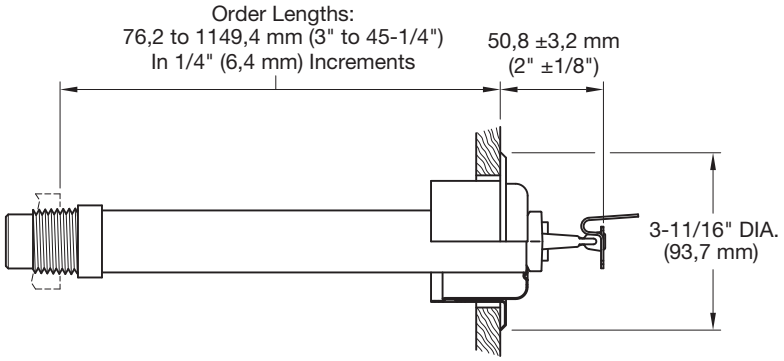


Figure 2
Series DS-3 ECOH Horizontal Sidewall Dry-Type Sprinkler
With Flush Escutcheon (TY5339)

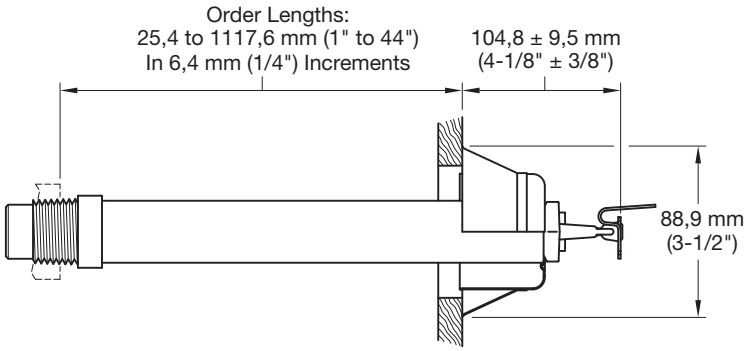


Figure 3
Series DS-3 ECOH Horizontal Sidewall Dry-Type Sprinkler
With Deep Escutcheon (TY5339)

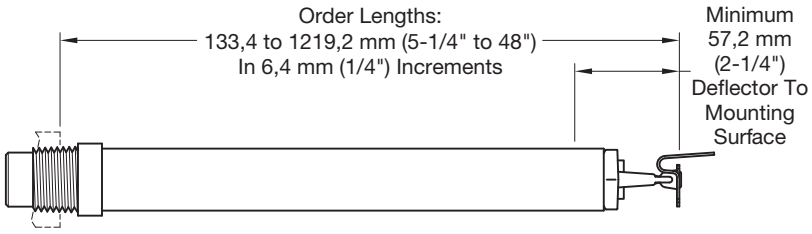


Figure 4
Series DS-3 ECOH Horizontal Sidewall Dry-Type Sprinkler
Without Escutcheon (TY5339)

Dry Sprinklers

DSB-2

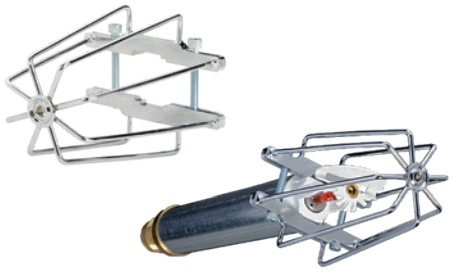
Dry Sprinkler Boot (For Use With TFP Dry Type Sprinklers)

Includes	1 Boot, 2 Strap Ties, and 0.9L (1/3 oz.) of Adhesive (quantity of adhesive is sufficient for installing 1 Boot)
Tech Data Sheet	**TFP591**

Helps to close the air gap created by the clearance hole through a wall or ceiling through which the dry type sprinkler has penetrated ■ Helps to stop the air exchange between the inside and outside of the freezer (or any other type of similar construction) to help prevent transfer of moist air into the freezer space

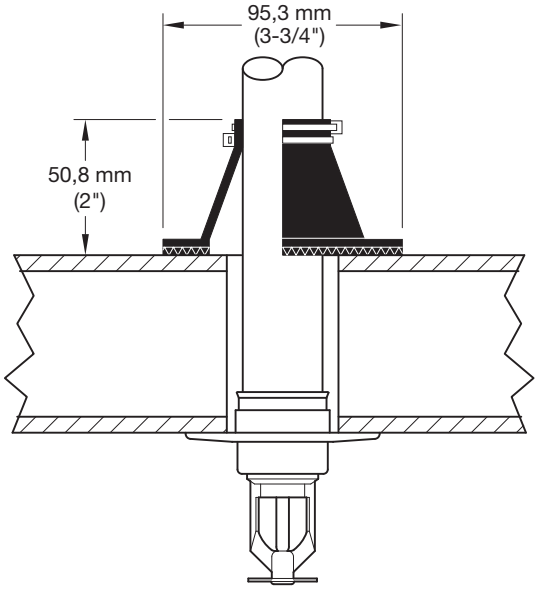
G5

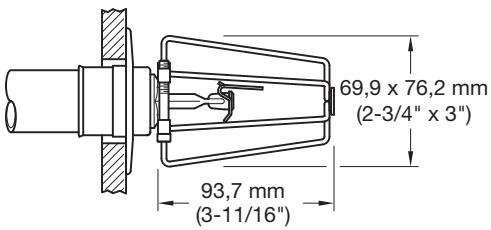
DS-1 Dry Sprinkler Guards



Approvals	UL
Finish	Zinc Chromate
Tech Data Sheet	**TFP780**

The TYCO Model G5 Sprinkler Guards are designed to be used in areas that make the sprinklers susceptible to mechanical or physical damage ■ For use with Series DS-1 Dry Sprinklers standard, deep, and no escutcheons





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Special Application Sprinklers

Intended for specific applications such as combustible concealed spaces and areas subject to corrosion.

- Attic Spaces
- Corrosive Environments
- High Security Institutions
- Window Protection

Special Application Sprinklers

Attic

BB (Back-to-Back), SD (Single Directional), HIP, & AP (Attic Plus)

BB Series
Back-To-Back

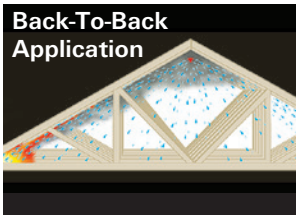
SD Series
Single Directional

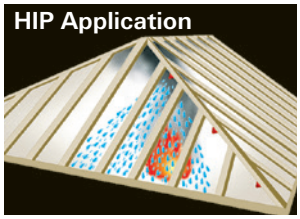
K Factor	K= 60 (4.2), K= 80 (5.6), K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL
Temperature	93°C (200°F) for BB (K=60 and K=115), HIP, AP 100°C (212°F) for BB (K=80), SD
Sprinkler Finish	Natural Brass
SIN	TY4180, TY4181, TY4182 TY3180, TY3181, TY3182 TY2180, TY2181, TY2182 TY3183, TY3184, TY3185 TY3187, TY3190, TY2190
Wrench Type	W-TYPE 3, W-TYPE 6, W-TYPE 20
Tech Data Sheet	**TFP610**

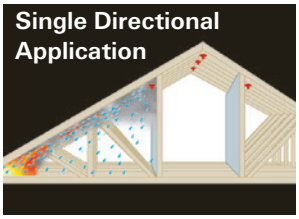
"Specific Application Sprinklers for Protecting Attics" ■ 3 mm bulb or solder type ■ Wet or dry pipe systems ■ Provides a tested method of protecting an attic ■ Provides a specific cost advantage by reducing the amount of piping required ■ Cover attics to 18.3m (60') wide with a single line of piping, eliminating the need for as many as five branch lines ■ Saves up to 80% of the piping that would be required with standard sprinklers while providing a higher level of protection.

HIP

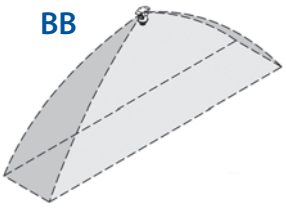
Spray Patterns

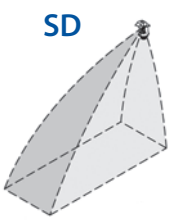


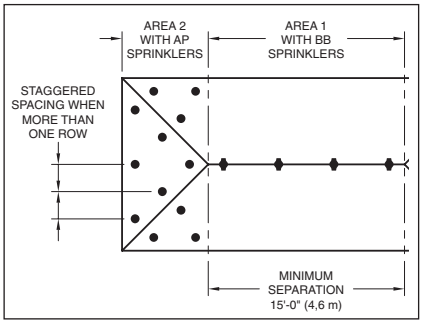


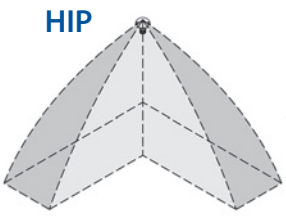


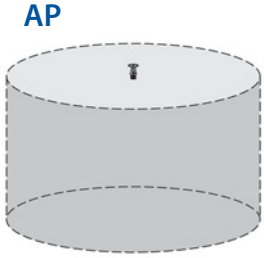
AP Series
Attic Plus











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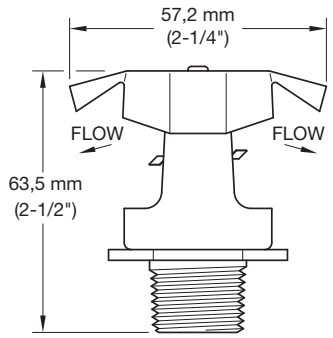
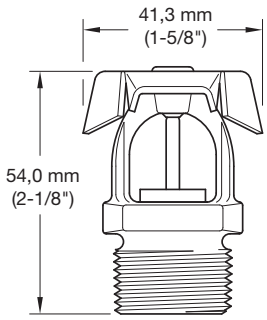
Attic

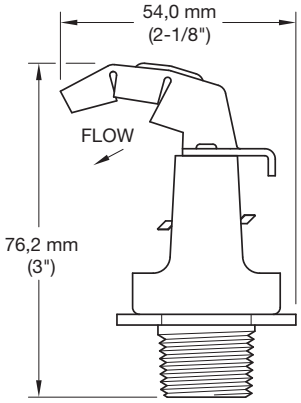


BB Series
K=60 (4.2)
& 80 (5.6)



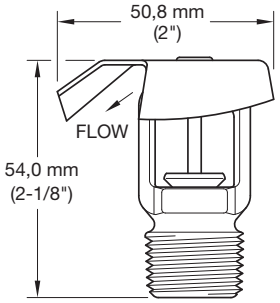
BB Series
K=115 (8.0)

BB1, BB2, & BB3 · K=115 (8.0), 80 (5.6), 60 (4.2) · TFP610							
Part No.	Model	SIN	Temp. °C	Temp. °F	Pitch	Finish Code	Approvals & Listings UL
BB1, BB2, & BB3 - 115 (8.0) - ¾" NPT							
516231200	BB1	TY4180	93	[200]	4:12	1	√
516211200	BB2	TY4181	93	[200]	7:12	1	√
516221200	BB3	TY4182	93	[200]	10:12	1	√
BB1, BB2, & BB3 - 80 (5.6) - ½" NPT							
516231200	BB1	TY3180	100	[212]	4:12	1	√
516211200	BB2	TY3181	100	[212]	7:12	1	√
516221200	BB3	TY3182	100	[212]	10:12	1	√
BB1, BB2, & BB3 - 60 (4.2) - ½" NPT							
516231200	BB1	TY2180	93	[200]	3:12	1	√
516211200	BB2	TY2181	93	[200]	7:12	1	√
516221200	BB3	TY2182	93	[200]	10:12	1	√



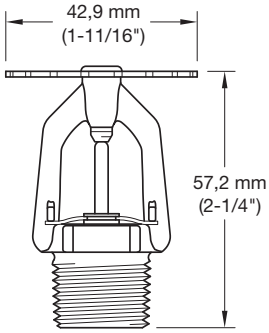
SD Series
K=80 (5.6)

SD1, SD2, & SD3 · K=80 (5.6) · TFP610							
Part No.	Model	SIN	Temp. °C	Temp. °F	Pitch	Finish Code	Approvals & Listings UL
SD1, SD2, & SD3 - 80 (5.6) - ½" NPT							
506111212	SD1	TY3183	100	[212]	4:12	1	√
506121212	SD2	TY3184	100	[212]	7:12	1	√
506131212	SD3	TY3185	100	[212]	10:12	1	√



HIP Series
K=80 (5.6)

HIP · K=80 (5.6) · TFP610							
Part No.	Model	SIN	Temp. °C	Temp. °F	Pitch	Finish Code	Approvals & Listings UL
HIP - 80 (5.6) - ½" NPT							
516201200	HIP	TY3187	93	[200]	4:12	1	√



AP Series
K=80 (5.6)
& 60 (4.2)

AP · K=80 (5.6) & 60 (4.2) · TFP610							
Part No.	Model	SIN	Temp. °C	Temp. °F	Pitch	Finish Code	Approvals & Listings UL
AP - K=80 (5.6) - ½" NPT							
506251200	AP	TY3190	93	[200]	3:12	1	√
AP - K=60 (4.2) - ½" NPT							
506241200	AP	TY2190	93	[200]	3:12	1	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

RAVEN Studio Sprinkler

Pendent & Horizontal Sidewall Sprinklers

K Factor	K= 80 (5.6)
Thread Size	Thread Connection Adapter: ½" NPT x ISO 228 G⅜" Sprinkler: ISO 228 G⅜" Note: Threads per ISO 228 are parallel pipe threads.
Approvals	UL, C-UL
Temperature	74°C (165°F)
Sprinkler Finish	White, Grey, Custom
Escutcheon Finish	White, Grey, Chrome/Electropolish, Custom, Primed White or Grey (for paint-in-place)
SIN	Standard Coverage: TY1281 - Pendent, TY1381 - HSW Extended Coverage: TY1282 - Pendent, TY1382 - HSW
Wrench Type	W-Type 25
Tech Data Sheet	**TFP658**

TYCO RAVEN Studio Sprinklers 5.6K Pendent and Horizontal Sidewall (HSW) Quick Response, Standard Coverage for Light and Ordinary Hazard applications and Extended Coverage for Light Hazard applications only, are intended for use in areas as designed per NFPA 13 ■ The flush design is made aesthetically appealing by concealing the deflector and other operating parts behind the link assembly. ■ Additionally, RAVEN Studio is the only sprinkler UL Listed with a paint-in-place escutcheon. Both the sprinkler and escutcheon are also available in a range of factory-painted custom colours.

RAVEN Studio · K=80 (5.6) · TFP658					
Part No.	SIN	Temp.		Finish Code	Approvals & Listings
		°C	°F		UL
Standard Coverage - Pendent					
503104165	TY1281	74	[165]	4	√
503109165	TY1281	74	[165]	9	√
50310X165	TY1281	74	[165]	X	√
Standard Coverage - Horizontal Sidewall					
503124165	TY1381	74	[165]	4	√
503129165	TY1381	74	[165]	9	√
50312X165	TY1381	74	[165]	X	√
Extended Coverage - Pendent					
503114165	TY1282	74	[165]	4	√
503119165	TY1282	74	[165]	9	√
50311X165	TY1282	74	[165]	X	√
Extended Coverage - Horizontal Sidewall					
503184165	TY1382	74	[165]	4	√
503189165	TY1382	74	[165]	9	√
50318X165	TY1382	74	[165]	X	√

Thread Adapters	
Part No.	Size
913100075	Short 19 mm (¾")
913100100	Standard 25 mm (1")
913100150	Medium 38 mm (1-½")
913100200	Long 50 mm (2")

Carbon Steel Escutcheons			
Carbon Steel Part No.		For use with Sprinkler Temp.	Cover Plate Finish
Style J 76mm (3") Dia.	Style K 101mm (4") Dia.		
563064010	563084010	74°C, 165°F	White
563067010	563087010		Grey
563069010	563089010		Chrome
563060004	563080004		Primed White
563060007	563080007		Primed Grey
56306X010	56308X010		Custom Colour

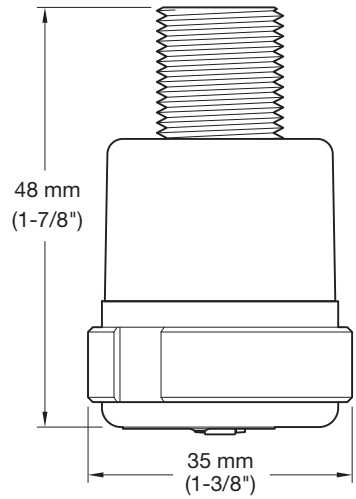
Stainless Steel Escutcheons			
Stainless Steel Part No.		For use with Sprinkler Temp.	Cover Plate Finish
Style J 76mm (3") Dia.	Style K 101mm (4") Dia.		
563074010	563094010	74°C, 165°F	White
563077010	563097010		Grey
563079010	563099010		Electropolish*
563070004	563090004		Primed White
563070007	563090007		Primed Grey
56307X010	56309X010		Custom Colour

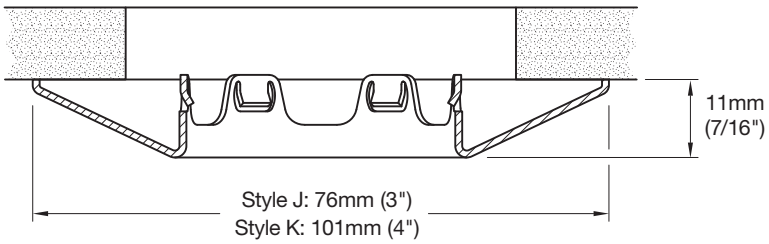
* Chrome-coated appearance

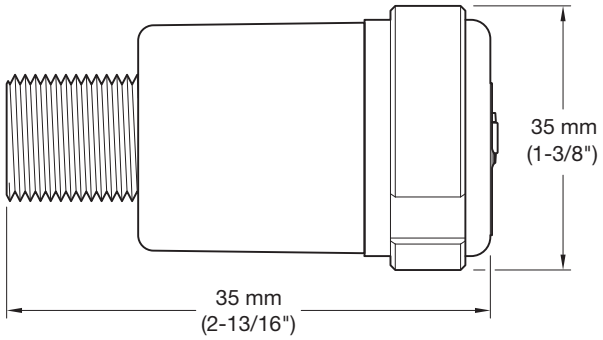
Finish Code: 4=White, 9=Grey, X=Custom

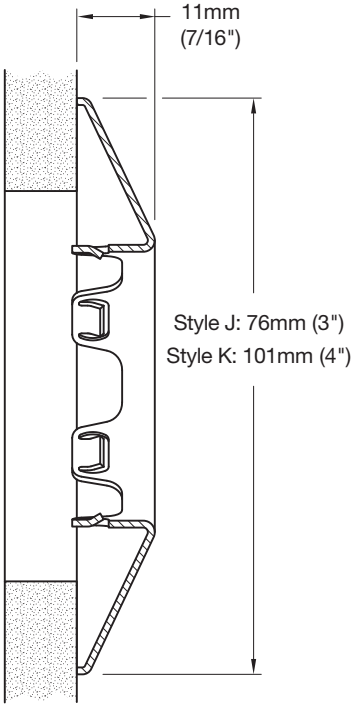
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RAVEN Studio Sprinkler









Special Application Sprinklers

RAVEN

Institutional Pendent & Horizontal Sidewall

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	74°C (165°F)
Escutcheon Material	Carbon Steel, or Stainless Steel
Escutcheon Finish	Grey, Chrome, White, or Electropolished (SS only)
Sprinkler Finish	Grey or White
SIN	TY3281, TY3282, TY3381, TY3382
Wrench Type	W-Type 25
Tech Data Sheet	**TFP651**

Quick Response ■ Standard and Extended Coverage ■ Designed for use in areas such as correctional, detention, and mental health care facilities as well as other commercial buildings ■ Both the pendent and horizontal sidewall styles are available for standard or extended coverage applications ■ Tamper-resistant features ■ 12,1 bar (175 psi).

RAVEN Studio · K=80 (5.6) · TFP651					
Part No.	SIN	Temp.		Finish Code	Approvals & Listings
		°C	°F		UL
Standard Coverage - Pendent					
503144165	TY3281	74	[165]	4	√
503149165	TY3281	74	[165]	9	√
Standard Coverage - Horizontal Sidewall					
503164165	TY3381	74	[165]	4	√
503169165	TY3381	74	[165]	9	√
Extended Coverage - Pendent					
503154165	TY3282	74	[165]	4	√
503159165	TY3282	74	[165]	9	√
Extended Coverage - Horizontal Sidewall					
503174165	TY3382	74	[165]	4	√
503179165	TY3382	74	[165]	9	√

Carbon Steel Escutcheons			
Carbon Steel Part No.		For use with Sprinkler Temp.	Cover Plate Finish
Style F 76mm (3") Dia.	Style G 101mm (4") Dia.		
563144010	563124010	74°C, 165°F	White
563147010	563127010		Grey
563149010	563129010		Chrome Coated

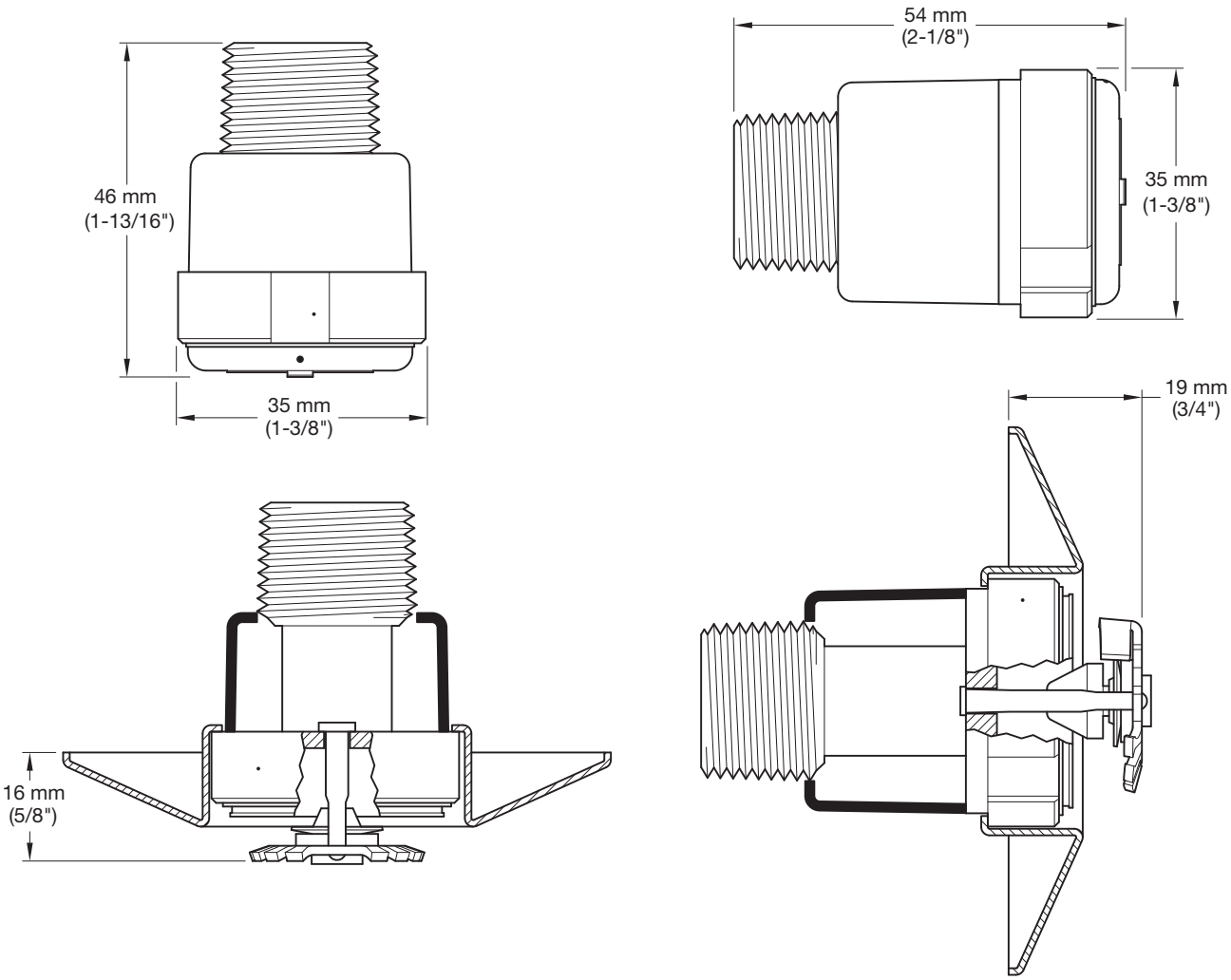
Stainless Steel Escutcheons			
Stainless Steel Part No.		For use with Sprinkler Temp.	Cover Plate Finish
Style F 76mm (3") Dia.	Style G 101mm (4") Dia.		
563184010	563194010	74°C, 165°F	White
563187010	563197010		Grey
563189010	563199010		Electropolish*

* Chrome-coated appearance

Finish Code: 4=White, 9=Grey

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RAVEN



Special Application Sprinklers

FSC

Flush Pendent Quick Response

K Factor	K= 80 (5.6)
Thread Size	G3/8" DIN ISO 228
Approvals	CE, VdS
Temperature	74°C (165°F)
Escutcheon Finish	Grey, White
Sprinkler Finish	Grey or White
SIN	TY3200
Wrench Type	W-Type 25
Tech Data Sheet	**TFP645**

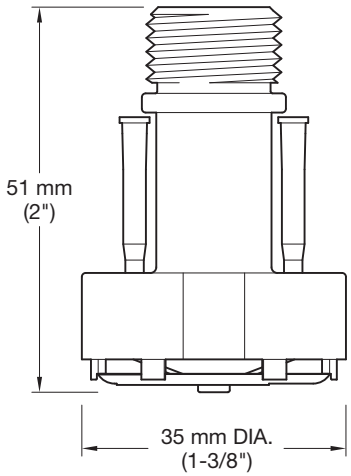
Quick Response ■ The TYCO Model FSC 80 K-factor Flush Sprinkler is a quick response standard coverage sprinkler designed for use in areas such as offices, hospitals, churches, schools, apartments, and hotels. ■ For applications in poured concrete ceiling/floor assemblies, a unique Installation Cup is used to form the recessed cavity into which the FSC Sprinkler is installed. ■ The FSC Sprinkler, with a heat sensitive solder type release element, is rated as a quick response sprinkler.

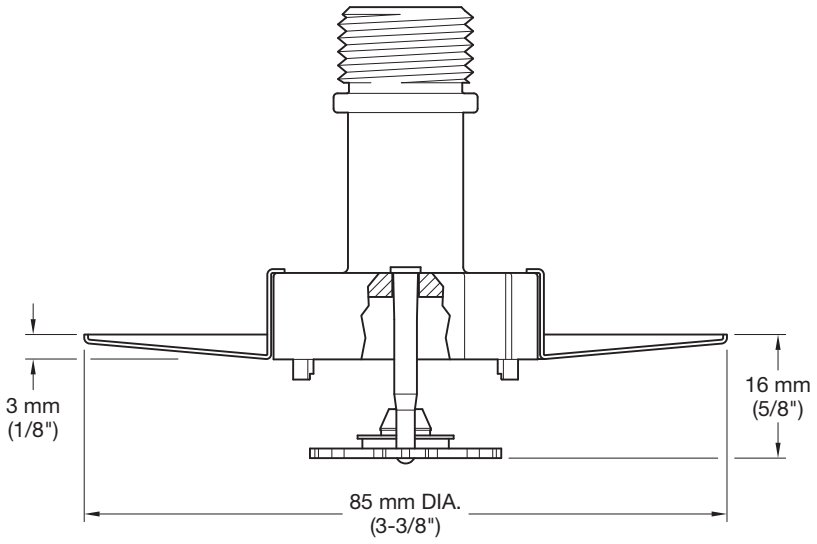
FSC • K=80 (5.6) • TFP645					
Part No.	Temp.		Finish Code	Approvals & Listings	
	°C	°F		VdS	CE
Concrete Ceiling Application					
503134165	74	[165]	4	√	√
503139165	74	[165]	9	√	√
Suspended Ceiling Application					
513134165	74	[165]	4	√	√
513139165	74	[165]	9	√	√

Style H Escutcheons - 85mm Dia.		
Part No. Style H 85mm	For use with Sprinkler Temp.	Finish
563134010	74°C, 165°F	White
563139010		Grey

Thread Extension and Adapters	
Part No.	Desc.
913131008	Thread Extension
913131007	Adapter

This sprinkler comes with 2 adaptors mentioned here. These adaptors are needed to fit in the MLC-S piping systems.





Finish Code: 4=White, 9=Grey

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TFP PH2

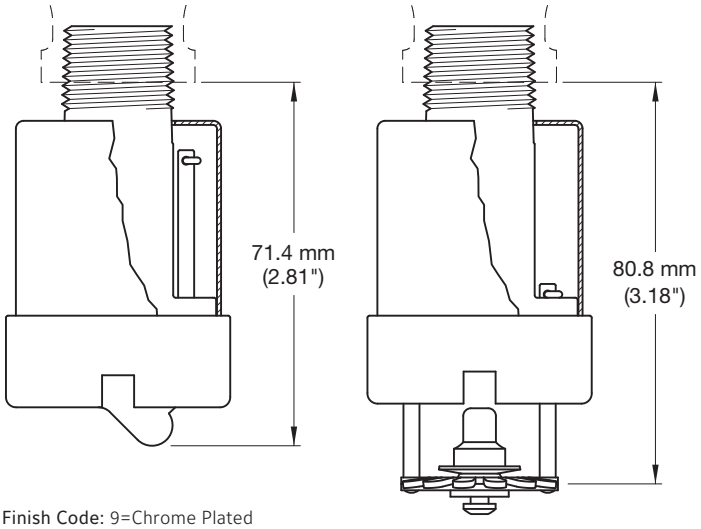
Institutional Pendent Sprinklers

K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, NYC
Temperature	74°C (165°F), 100°C (212°F)
Escutcheon Finish	Chrome Plated
Sprinkler Finish	Chrome Plated
SIN	TY3290
Wrench Type	1509-3
Tech Data Sheet	**TFP650**

The TYCO Model TFP PH2, 5.6 K-factor, Institutional Pendent Sprinklers are standard response standard coverage, fusible solder type spray sprinklers designed for use in areas such as correctional, detention, and mental health care facilities. ■ The unique features of the Model TFP PH2 provide a tamper resistant sprinkler design that helps eliminate the opportunity for individuals to injure themselves or others with the components of a fire sprinkler. ■ The Model TFP PH2 optimises an aesthetically appealing flush design that conceals most of the operating parts.

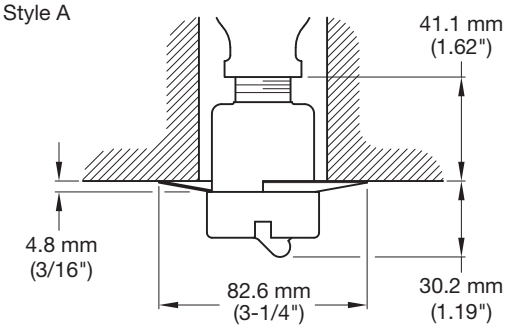
TFP PH2 · K=80 (5.6) · TFP650				
Part No.	Temp.		Finish Code	Approvals & Listings
	°C	°F		UL
Sprinkler Assemblies				
511049165	74	[165]	9	√
511049212	100	[212]	9	√

Escutcheons		
Part No.	Escutcheon Style	Finish
560127622	Style A	Chrome Plated
560017511	Style B1	Chrome Plated
560017513	Style C	Chrome Plated

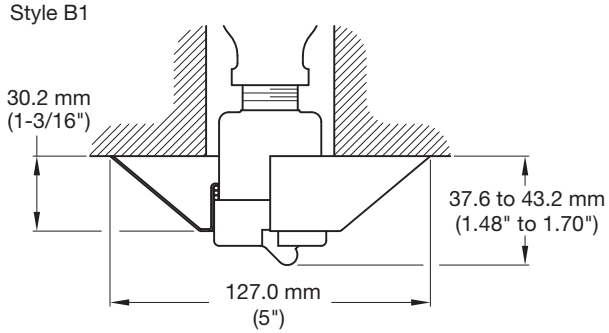


Finish Code: 9=Chrome Plated

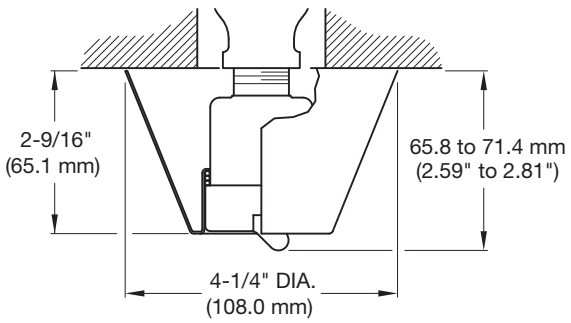
Style A



Style B1



Style C



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TFP PH5

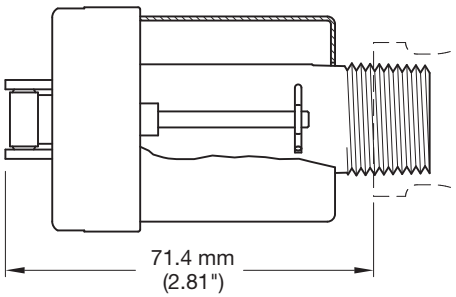
Institutional Horizontal Sidewall Sprinklers

K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, NYC
Temperature	74°C (165°F)
Escutcheon Finish	Chrome Plated
Sprinkler Finish	Chrome Plated
SIN	TY3390
Wrench Type	1509-3
Tech Data Sheet	**TFP654**

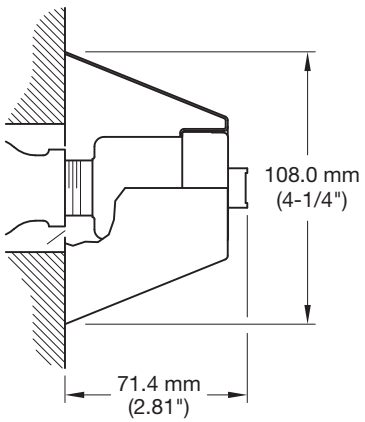
The TYCO Model TFP PH2, 5.6 K-factor, Institutional Pendent Sprinklers are standard response standard coverage, fusible solder type spray sprinklers designed for use in areas such as correctional, detention, and mental health care facilities. ■ The unique features of the Model TFP PH2 provide a tamper resistant sprinkler design that helps eliminate the opportunity for individuals to injure themselves or others with the components of a fire sprinkler. ■ The Model TFP PH2 optimises an aesthetically appealing flush design that conceals most of the operating parts.

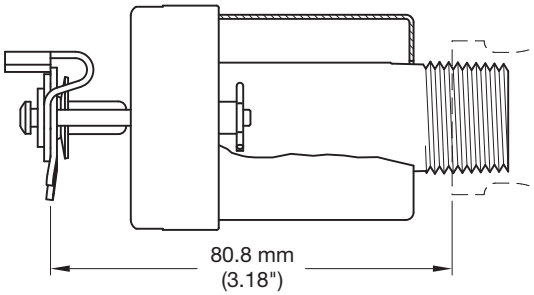
TFP PH2 • K=80 (5.6) • TFP654				
Part No.	Temp.		Finish Code	Approvals & Listings
	°C	°F		UL
Sprinkler Assemblies				
511069165	74	[165]	9	√

Escutcheons		
Part No.	Escutcheon Style	Finish
560017512	Style B2	Chrome Plated
560017513	Style C	Chrome Plated

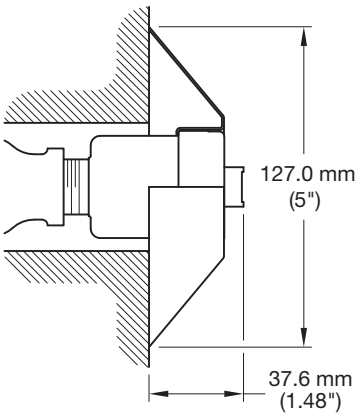


Style B2





Style C



Finish Code: 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

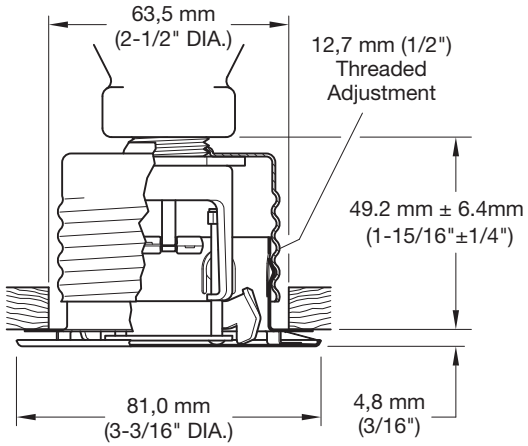
CWS

Specific Application Concealed Pendent Vertical Sidewall Window Sprinkler

K Factor	K=80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, ICC
Temperature	71°C/160°F - Sprinkler, 59°C/139°F - Cover Plate, 100°C/212°F - Sprinkler, 74°C/165°F - Cover Plate
Cover Plate Finish	Ivory, Bright Chrome, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Brass, Brushed Chrome, Custom
SIN	TY3498
Wrench Type	W-Type 39
Tech Data Sheet	**TFP621**

Designed to provide a two-hour fire-resistance-rating to protect non-rated glazing ■ UL and C-UL Listed as a specific application automatic window sprinkler ■ Compliant with the International Building Code, fire-resistant rating evaluated in ICC ESR-2397 ■ Flat-plate design conceals the sprinkler above the ceiling

CSW-VSW, K=80 (5.6), ½" NPT



K=80 [5.6] · ½" NPT · TFP621					
Part No.	Temp.		Finish Code	Approvals & Listings	
CWS-VSW SIN TY3498	°C	°F		UL	C-UL
506300165	71	[160]	1	√	√
506300212	100	[212]	1	√	√

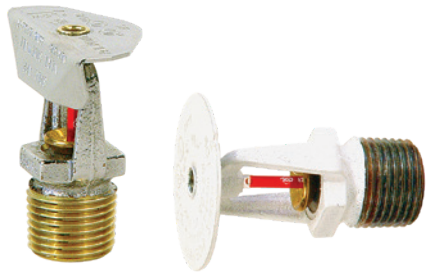
Cover Plate				
Part No.	Temp.		For use with Sprinkler Temp.	Cover Plate Finish
Cover Plate	°C	°F		
562140135	59	139	71°C, 160°F	Ivory (RAL1015)
562140165	74	165	100°C, 212°F	
562141135	59	139	71°C, 160°F	Bright Chrome
562141165	74	165	100°C, 212°F	
562142135	59	139	71°C, 160°F	Beige (RAL1001)
562142165	74	165	100°C, 212°F	
562143135	59	139	71°C, 160°F	Pure White (RAL9010)
562143165	74	165	100°C, 212°F	
562144135	59	139	71°C, 160°F	Signal White (RAL9003)
562144165	74	165	100°C, 212°F	
562145135	59	139	71°C, 160°F	Grey White (RAL9002)
562145165	74	165	100°C, 212°F	
562146135	59	139	71°C, 160°F	Brown (RAL8028)
562146165	74	165	100°C, 212°F	
562147135	59	139	71°C, 160°F	Black (RAL9005)
562147165	74	165	100°C, 212°F	
562148135	59	139	71°C, 160°F	Brushed Brass
562148165	74	165	100°C, 212°F	
562149135	59	139	71°C, 160°F	Brushed Chrome
562149165	74	165	100°C, 212°F	
56214X135	59	139	71°C, 160°F	Custom Paint
56214X165	74	165	100°C, 212°F	

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

WS™

Window Sprinklers, Horizontal & Pendent Vertical Sidewall

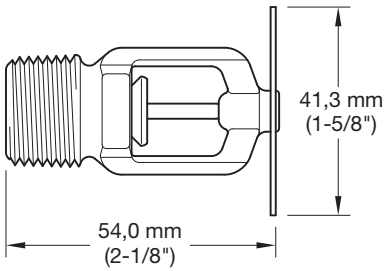


K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, ULC, NYC, ICC
Temperature	68°C (155°F), 93°C (200°F)
Sprinkler Finish	Signal White Polyester, Chrome Plated, Natural Brass, Jet Black
SIN	TY3388, TY3488
Wrench Type	W-Type 20
Tech Data Sheet	**TFP620**

3 mm bulb ■ Only UL tested sprinklers that can protect glazing in a wall or window and allow it to maintain its mechanical equivalent rating up to two hours ■ First sprinklers to be UL/C-UL Listed, ICC-ES, and ULC Listed & Approved for maintaining a rated assembly ■ Pendent allows installation farther away from the glass than the sidewall ■ Sidewall permits the window mullion to act as a baffle, allowing the sprinklers to be spaced closely together, if necessary ■ Provides the only UL tested option when seeking wall fire ratings when using heat strengthened, tempered, or ceramic glass.

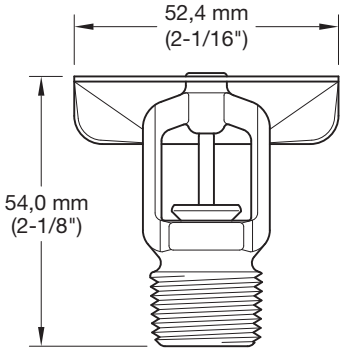
WS, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 [5.6]
½" NPT · SIN TY3388



Horizontal Sidewall - K=80 [5.6] · ½" NPT · TFP620				
Part No.	Temp.		Finish Code	Approvals & Listings
Horizontal Sidewall SIN TY3388	°C	°F		UL
503051155	68	[155]	1	√
503051200	93	[200]	1	√
503054155	68	[155]	4	√
503054200	93	[200]	4	√
503055155	68	[155]	5	√
503055200	93	[200]	5	√
503059155	68	[155]	9	√
503059200	93	[200]	9	√

Vertical Sidewall · K=80 [5.6]
½" NPT · SIN TY3488



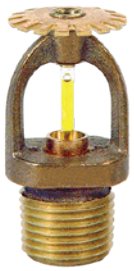
Vertical Sidewall - K=80 [5.6] · ½" NPT · TFP620				
Part No.	Temp.		Finish Code	Approvals & Listings
Vertical Sidewall SIN TY3488	°C	°F		UL
503041155	68	[155]	1	√
503041200	93	[200]	1	√
503044155	68	[155]	4	√
503044200	93	[200]	4	√
503045155	68	[155]	5	√
503045200	93	[200]	5	√
503049155	68	[155]	9	√
503049200	93	[200]	9	√

Finish Code: 1=Plain Brass, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CC1

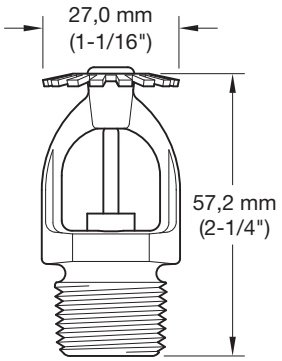
Combustible Concealed Space Sprinklers™, Upright



K Factor	K= 40 (2.8)
Thread Size	1/2" NPT
Approvals	UL
Temperature	79°C (175°F)
Sprinkler Finish	Natural Brass
SIN	TY1189
Wrench Type	W-Type 20
Tech Data Sheet	**TFP630**

3 mm bulb ■ Sprinklers are fast response, specific application sprinklers designed to provide protection of light hazard combustible, as well as non-combustible, concealed spaces ■ Meets NFPA® Requirements for Specialty Listed Sprinklers in Combustible Concealed Spaces ■ Allows the use of BlazeMaster® CPVC pipe with the benefit of superior sprinkler protection for wood truss spaces.

CC1, K=40 (2.8), ½" NPT



K=40 [2.8] · ½" NPT · TFP630				
Part No.	Temp.		Finish Code	Approvals & Listings
SIN TY1189	°C	°F		UL
503001175	79	[175]	1	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

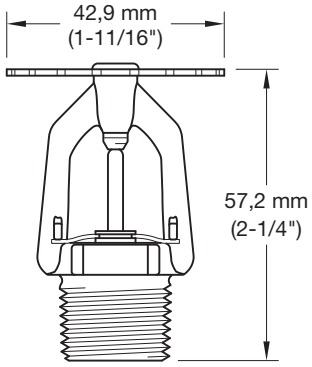
CC2

Combustible Concealed Space Sprinklers™, Upright

K Factor	K= 60 (4.2), K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL
Temperature	79°C (175°F)
Sprinkler Finish	Natural Brass
SIN	TY2189, TY3189
Wrench Type	W-Type 6
Tech Data Sheet	**TFP632**

3 mm bulb ■ Specific application sprinklers ■ Provides protection of specific light hazard combustible, as well as non-combustible, concealed spaces requiring sprinkler protection ■ The CC2 Sprinklers comply with the criterion for the protection of combustible concealed spaces as described in NFPA 13 ■ Allows the use of BlazeMaster® CPVC pipe in combustible concealed areas with the benefit of superior sprinkler protection for wood truss spaces ■ Can be used on steel dry pipe sprinkler systems ■ Increased spacing from 3,1m to 3,7m (10' to 12') ■ Increased coverage area from 9,3 m^2 to 13,4 m^2 (100 ft^2 to 144 ft^2)

CC2, K=60 (4.2) & 80 (5.6), ½" NPT



K=60 [4.2] & 80 [5.6] • ½" NPT • TFP632						
Part No.	K-Factor	SIN	Temp.		Finish Code	Approvals & Listings
			°C	°F		UL
513111175	60 (4.2)	TY2189	79	[175]	1	√
513011175	80 (5.6)	TY3189	79	[175]	1	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

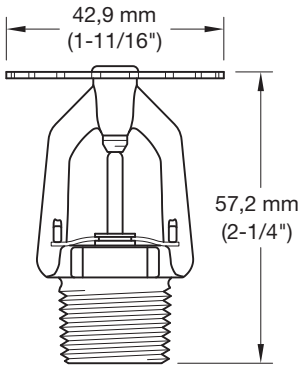
CC3

Combustible Concealed Space Sprinklers™, Upright

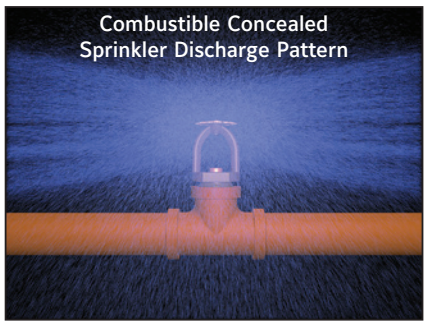
K Factor	K= 60 (4.2), K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL
Temperature	93°C (200°F)
Sprinkler Finish	Natural Brass
SIN	TY2199, TY3199
Wrench Type	W-Type 6
Tech Data Sheet	**TFP633**

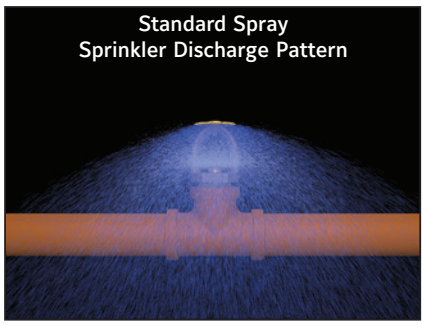
3 mm bulb ■ The CC3 Combustible Concealed Sprinklers are quick response, upright, specific application sprinklers designed to provide protection of specific light hazard combustible, as well as non-combustible, concealed spaces requiring protection ■ The Model CC3 Sprinklers comply with the criteria for the protection of combustible concealed spaces as described in NFPA 13 ■ The Model CC3 are designed for installation on BlazeMaster CPVC wet pipe systems and steel wet pipe or dry pipe sprinkler systems.

CC3, K=60 (4.2) & 80 (5.6), 1/2" NPT



K=60 [4.2] & 80 [5.6] · 1/2" NPT · TFP633						
Part No.	K-Factor	SIN	Temp.		Finish Code	Approvals & Listings
			°C	°F		UL
513111200	40 [4.2]	TY2199	93	[200]	1	√
513011200	80 [5.6]	TY3199	93	[200]	1	√





Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

Issue D Quartzoid®

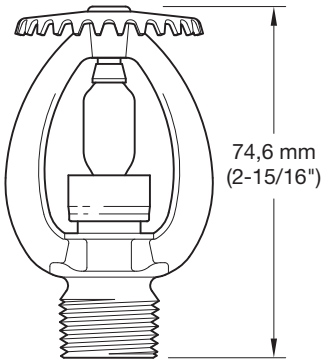
High Temperature, Upright & Pendent

K Factor	K= 80 (5.6), K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, FM, LPCB
Temperature	204°C (400°F), 260°C (500°F), 343°C (650°F) (K=5.6 only)
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated
SIN	TY3191, TY3296, TY4191, TY4292
Wrench Type	W-Type 11
Tech Data Sheet	**TFP690**

Standard coverage ■ All hazard ■ 11 mm bulb ■ Extra-high and ultra-high temperature ratings and corrosion resistant coatings ■ Temperature Ratings to 343°C (650°F) available.

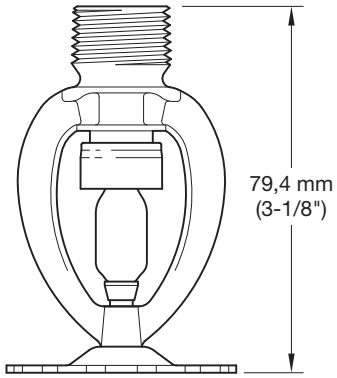
Issue D Quartzoid, K=80 (5.6) & 115 (8.0)

Upright · K=80 [5.6] (Shown)
1/2" NPT · SIN TY3191



K=80 [5.6] · 1/2" NPT · TFP690							
Part No.		Temp.		Finish Code	Approvals & Listings		
Upright SIN TY3191	Pendent SIN TY3296	°C	°F		LPCB	FM	UL
510361400	510401400	204	[400]	1	-	√	√
510361500	510401500	260	[500]	1	√	√	√
510361650	510401650	343	[650]	1	-	√	-
510367400	510407400	204	[400]	7	-	-	√
510367500	510407500	260	[500]	7	-	-	√
510369400	510409400	204	[400]	9	-	√	√
510369500	510409500	260	[500]	9	-	√	√
510369650	510409650	343	[650]	9	-	√	-

Pendent · K=80 [5.6] (Shown)
1/2" NPT · SIN TY3296



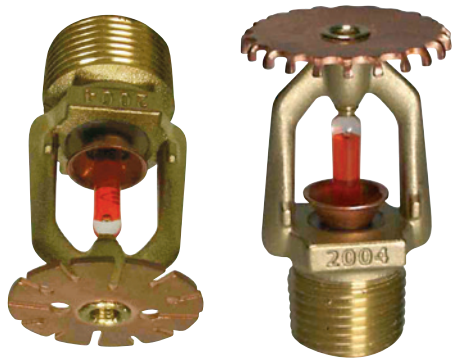
K=115 [8.0] · 3/4" NPT · TFP690					
Part No.		Temp.		Finish Code	Approvals & Listings
Upright SIN TY4191	Pendent SIN TY4292	°C	°F		UL
511361400	511401400	204	[400]	1	√
511361500	511401500	260	[500]	1	√
511367400	511407400	204	[400]	7	√
511367500	511407500	260	[500]	7	√
511369400	511409400	204	[400]	9	√
511369500	511409500	260	[500]	9	√

Finish Code: 1=Plain Brass, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRFS, TY-FS & TY-FS Special

Flat Spray, Upright & Pendent

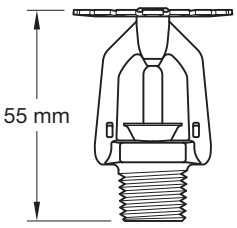


K Factor	K= 57 (4.0), K= 80 (5.6), & K=115 (8.0)
Thread Size	ISO 7-R ⅜, ½" NPT • ¾" NPT
Approvals	VdS, LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass
SIN	**TY-FRFS:** TY1136, TY1236, TY3136, TY3236, TY4136, TY4236 **TY-FS Special:** TY1146, TY1246, TY3146, TY3246, TY4146, TY4246 **TY-FS:** TY1156, TY1256, TY3156, TY3256, TY4156, TY4256
Wrench Type	W-Type 11
Tech Data Sheet	**TFP635**

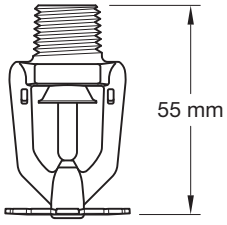
Standard coverage ■ All hazard ■ 3mm, 4mm or 5mm bulb ■ Extra-high and ultra-high temperature ratings and corrosion resistant coatings ■ Temperature Ratings to 343°C (650°F) available.

K=57 (4.0), ISO 7-R ⅜

Upright • K=57 [4.0]
ISO 7-R ⅜



Pendent • K=57 [4.0]
ISO 7-R ⅜



K=57 [4.0] • ISO 7-R ⅜ • TFP635												
Part No.		Model	Bulb Size	SIN		Temp.		Finish Code	Approvals & Listings			
Upright	Pendent			Upright	Pendent	°C	°F		VdS	CE	VKF	LPCB
513801135	513821135	TY-FRFS	3mm	TY1136	TY1236	57	[135]	1	√	√	√	√
513801155	513821155					68	[155]	1	√	√	√	√
513801175	513821175					79	[175]	1	√	√	√	√
513801200	513821200					93	[200]	1	√	√	√	√
513801286	513821286					141	[286]	1	√	√	√	√
514801135	514821135	TY-FS Special	4mm	TY1146	TY1246	57	[135]	1	√	√	√	-
514801155	514821155					68	[155]	1	√	√	√	-
514801175	514821175					79	[175]	1	√	√	√	-
514801200	514821200					93	[200]	1	√	√	√	-
514801286	514821286					141	[286]	1	√	√	√	-
515801135	515821135	TY-FS	5mm	TY1156	TY1256	57	[135]	1	√	√	√	√
515801155	515821155					68	[155]	1	√	√	√	√
515801175	515821175					79	[175]	1	√	√	√	√
515801200	515821200					93	[200]	1	√	√	√	√
515801286	515821286					141	[286]	1	√	√	√	√

Finish Code: 1=Plain Brass

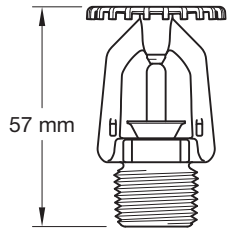
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

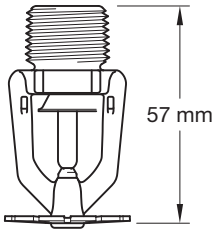
TY-FRFS, TY-FS & TY-FS Special

K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT



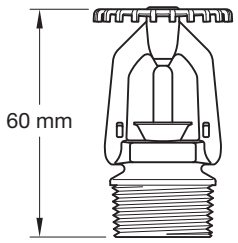
Pendent • K=80 [5.6]
½" NPT



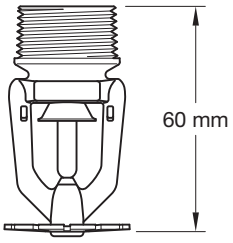
K=80 [5.6] • ½" NPT • TFP635												
Part No.		Model	Bulb Size	SIN		Temp.		Finish Code	Approvals & Listings			
Upright	Pendent			Upright	Pendent	°C	°F		VdS	CE	VKF	LPCB
513701135	513711135	TY-FRFS	3mm	TY3136	TY3236	57	[135]	1	√	√	√	√
513701155	513711155					68	[155]	1	√	√	√	√
513701175	513711175					79	[175]	1	√	√	√	√
513701200	513711200					93	[200]	1	√	√	√	√
513701286	513711286					141	[286]	1	√	√	√	√
514701135	514711135	TY-FS Special	4mm	TY3146	TY3246	57	[135]	1	√	√	√	-
514701155	514711155					68	[155]	1	√	√	√	-
514701175	514711175					79	[175]	1	√	√	√	-
514701200	514711200					93	[200]	1	√	√	√	-
514701286	514711286					141	[286]	1	√	√	√	-
515701135	515711135	TY-FS	5mm	TY3156	TY3256	57	[135]	1	√	√	√	√
515701155	515711155					68	[155]	1	√	√	√	√
515701175	515711175					79	[175]	1	√	√	√	√
515701200	515711200					93	[200]	1	√	√	√	√
515701286	515711286					141	[286]	1	√	√	√	√

K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT



Pendent • K=115 [8.0]
¾" NPT



K=115 [8.0] • ¾" NPT • TFP635												
Part No.		Model	Bulb Size	SIN		Temp.		Finish Code	Approvals & Listings			
Upright	Pendent			Upright	Pendent	°C	°F		VdS	CE	VKF	LPCB
513901135	513911135	TY-FRFS	3mm	TY4136	TY4236	57	[135]	1	√	√	√	√
513901155	513911155					68	[155]	1	√	√	√	√
513901175	513911175					79	[175]	1	√	√	√	√
513901200	513911200					93	[200]	1	√	√	√	√
513901286	513911286					141	[286]	1	√	√	√	√
514901135	514911135	TY-FS Special	4mm	TY4146	TY4246	57	[135]	1	√	√	√	-
514901155	514911155					68	[155]	1	√	√	√	-
514901175	514911175					79	[175]	1	√	√	√	-
514901200	514911200					93	[200]	1	√	√	√	-
514901286	514911286					141	[286]	1	√	√	√	-
515901135	515911135	TY-FS	5mm	TY4156	TY4256	57	[135]	1	√	√	√	√
515901155	515911155					68	[155]	1	√	√	√	√
515901175	515911175					79	[175]	1	√	√	√	√
515901200	515911200					93	[200]	1	√	√	√	√
515901286	515911286					141	[286]	1	√	√	√	√

Finish Code: 1=Plain Brass

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

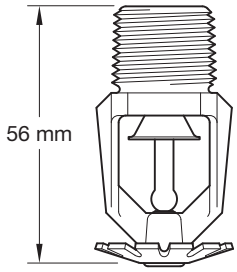
Conventional Sprinklers, Special Response

K Factor	K= 80 & 115
Thread Size	1/2" NPT • 3/4" NPT
Approvals	VdS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Pure White, Signal White, Chrome Plated
SIN	TY3641, TY4641
Wrench Type	W-Type 6, W-Type 7 (Recessed)
Tech Data Sheet	**TFP663**

Standard coverage ■ 4 mm bulb ■ Produces a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards. ■ These sprinklers are intended to be installed either pendent or upright, and in either position

TY-B, K=80, 1/2" NPT

Upright or Pendent • K=80
1/2" NPT



K=80 • 1/2" NPT • TFP663						
Part No.	Temp.		Finish Code	Approvals & Listings		
Conventional SIN TY3641	°C	°F		VdS	CE	VKF
574731135	57	135	1	√	√	√
574731155	68	155	1	√	√	√
574731175	79	175	1	√	√	√
574731200	93	200	1	√	√	√
574731286	141	286	1	√	√	√
574733135	57	135	3	√	√	√
574733155	68	155	3	√	√	√
574733175	79	175	3	√	√	√
574733200	93	200	3	√	√	√
574733286	141	286	3	√	√	√
574734135	57	135	4	√	√	√
574734155	68	155	4	√	√	√
574734175	79	175	4	√	√	√
574734200	93	200	4	√	√	√
574734286	141	286	4	√	√	√
574739135	57	135	9	√	√	√
574739155	68	155	9	√	√	√
574739175	79	175	9	√	√	√
574739200	93	200	9	√	√	√
574739286	141	286	9	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

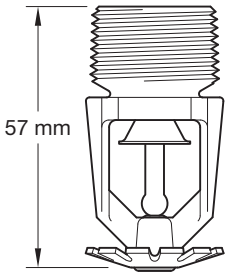
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B

TY-B, K=115, ¾" NPT

Upright or Pendent • K=115
¾" NPT



K=115 • ¾" NPT • TFP663						
Part No.	Temp.		Finish Code	Approvals & Listings		
Conventional SIN TY4641	°C	°F		VdS	CE	VKF
574931135	57	135	1	√	√	√
574931155	68	155	1	√	√	√
574931175	79	175	1	√	√	√
574931200	93	200	1	√	√	√
574931286	141	286	1	√	√	√
574933135	57	135	3	√	√	√
574933155	68	155	3	√	√	√
574933175	79	175	3	√	√	√
574933200	93	200	3	√	√	√
574933286	141	286	3	√	√	√
574934135	57	135	4	√	√	√
574934155	68	155	4	√	√	√
574934175	79	175	4	√	√	√
574934200	93	200	4	√	√	√
574934286	141	286	4	√	√	√
574939135	57	135	9	√	√	√
574939155	68	155	9	√	√	√
574939175	79	175	9	√	√	√
574939200	93	200	9	√	√	√
574939286	141	286	9	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

Conventional (Old Style)

K Factor	K= 80 (5.6), K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	UL, C-UL, LPCB, VdS, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F), Open (K=115)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Wax Coated, Lead Coated, Wax Over Lead Coated
SIN	TY3651, TY4651
Wrench Type	W-Type 6
Tech Data Sheet	**TFP661**

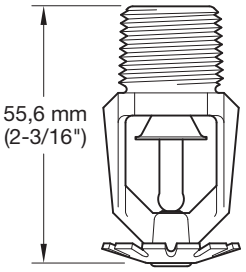
Ordinary and Extra High Hazard ■ 5 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards. ■ The NFPA permits the use of "Old Style Sprinklers" where special construction features require a unique water distribution.

Special Application Sprinklers

TY-B

TY-B, K=80 (5.6), ½" NPT

Upright or Pendent • K=80 [5.6]
½" NPT • SIN TY3651



K=80 [5.6] • ½" NPT • TFP661														
Part No.	Temperature		Finish Code	Approvals & Listings										
SIN TY3651	°C	°F		VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF	UL
575601135	57	135	1	√	√	√	√	√	√	√	√	√	√
575601155	68	155	1	√	√	√	√	√	√	√	√	√	√
575601175	79	175	1	√	√	√	√	√	√	√	√	√	√
575601200	93	200	1	√	√	√	√	√	√	√	√	√	√
575601286	141	286	1	√	√	√	√	√	√	√	√	√	√
575601360	182	360	1	√	√	√	√	√	√	√	√	√	√
575603135	57	135	3	√	√	√	√	√	√	√	√	√	√
575603155	68	155	3	√	√	√	√	√	√	√	√	√	√
575603175	79	175	3	√	√	√	√	√	√	√	√	√	√
575603200	93	200	3	√	√	√	√	√	√	√	√	√	√
575603286	141	286	3	√	√	√	√	√	√	√	√	√	√
575603360	182	360	3	√	√	√	√	√	√	√	√	√	√
575604135	57	135	4	√	√	√	√	√	√	√	√	√	√
575604155	68	155	4	√	√	√	√	√	√	√	√	√	√
575604175	79	175	4	√	√	√	√	√	√	√	√	√	√
575604200	93	200	4	√	√	√	√	√	√	√	√	√	√
575604286	141	286	4	√	√	√	√	√	√	√	√	√	√
575604360	182	360	4	√	√	√	√	√	√	√	√	√	√
575606135	57	135	6	-	-	√	√	√	√	√	√	√	√
575606155	68	155	6	-	-	√	√	√	√	√	√	√	√
575606175	79	175	6	-	-	√	√	√	√	√	√	√	√
575606200	93	200	6	-	-	√	√	√	√	√	√	√	√
575606286	141	286	6	-	-	√	√	√	√	√	√	√	√
575607135	57	135	7	-	-	√	√	√	√	√	√	√	√
575607155	68	155	7	-	-	√	√	√	√	√	√	√	√
575607175	79	175	7	-	-	√	√	√	√	√	√	√	√
575607200	93	200	7	-	-	√	√	√	√	√	√	√	√
575607286	141	286	7	-	-	√	√	√	√	√	√	√	√
575607360	182	360	7	-	-	√	√	√	√	√	√	√	√
575608135	57	135	8	-	-	√	√	√	√	√	√	√	√
575608155	68	155	8	-	-	√	√	√	√	√	√	√	√
575608175	79	175	8	-	-	√	√	√	√	√	√	√	√
575608200	93	200	8	-	-	√	√	√	√	√	√	√	√
575608286	141	286	8	-	-	√	√	√	√	√	√	√	√
575609135	57	135	9	√	√	√	√	√	√	√	√	√	√
575609155	68	155	9	√	√	√	√	√	√	√	√	√	√
575609175	79	175	9	√	√	√	√	√	√	√	√	√	√
575609200	93	200	9	√	√	√	√	√	√	√	√	√	√
575609286	141	286	9	√	√	√	√	√	√	√	√	√	√
575609360	182	360	9	√	√	√	√	√	√	√	√	√	√

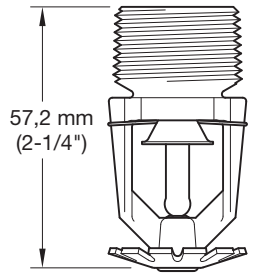
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B

TY-B, K=115 (8.0), ¾" NPT

Upright or Pendent • K=115 [8.0]
¾" NPT • SIN TY4651



K=115 [8.0] • ¾" NPT • TFP661														
Part No.	Temp.		Finish Code	Approvals & Listings										
SIN TY4651	°C	°F		VdS	LPCB	CE	MED	SAS	Ukrainian	Belarusian	Fire Academy of Russia	VKF	UL
575931135	57	135	1	√	√	√	√	√	√	√	√	√	√
575931155	68	155	1	√	√	√	√	√	√	√	√	√	√
575931175	79	175	1	√	√	√	√	√	√	√	√	√	√
575931200	93	200	1	√	√	√	√	√	√	√	√	√	√
575931286	141	286	1	√	√	√	√	√	√	√	√	√	√
575931360	182	360	1	√	√	√	√	√	√	√	√	√	√
575931000	Open		1	-	-	√	√	√	√	√	√	√	
575933135	57	135	3	√	√	√	√	√	√	√	√	√	√
575933155	68	155	3	√	√	√	√	√	√	√	√	√	√
575933175	79	175	3	√	√	√	√	√	√	√	√	√	√
575933200	93	200	3	√	√	√	√	√	√	√	√	√	√
575933286	141	286	3	√	√	√	√	√	√	√	√	√	√
575933360	182	360	3	√	√	√	√	√	√	√	√	√	√
575933000	Open		3	-	-	√	√	√	√	√	√	√	
575934135	57	135	4	√	√	√	√	√	√	√	√	√	√
575934155	68	155	4	√	√	√	√	√	√	√	√	√	√
575934175	79	175	4	√	√	√	√	√	√	√	√	√	√
575934200	93	200	4	√	√	√	√	√	√	√	√	√	√
575934286	141	286	4	√	√	√	√	√	√	√	√	√	√
575934360	182	360	4	√	√	√	√	√	√	√	√	√	√
575934000	Open		4	-	-	√	√	√	√	√	√	√	
575936135	57	135	6	-	-	√	√	√	√	√	√	√	√
575936155	68	155	6	-	-	√	√	√	√	√	√	√	√
575936175	79	175	6	-	-	√	√	√	√	√	√	√	√
575936200	93	200	6	-	-	√	√	√	√	√	√	√	√
575936286	141	286	6	-	-	√	√	√	√	√	√	√	√
575937135	57	135	7	-	-	√	√	√	√	√	√	√	√
575937155	68	155	7	-	-	√	√	√	√	√	√	√	√
575937175	79	175	7	-	-	√	√	√	√	√	√	√	√
575937200	93	200	7	-	-	√	√	√	√	√	√	√	√
575937286	141	286	7	-	-	√	√	√	√	√	√	√	√
575937360	182	360	7	-	-	√	√	√	√	√	√	√	√
575937000	Open		7	-	-	√	√	√	√	√	√	√	
575938135	57	135	8	-	-	√	√	√	√	√	√	√	√
575938155	68	155	8	-	-	√	√	√	√	√	√	√	√
575938175	79	175	8	-	-	√	√	√	√	√	√	√	√
575938200	93	200	8	-	-	√	√	√	√	√	√	√	√
575938286	141	286	8	-	-	√	√	√	√	√	√	√	√
575939135	57	135	9	√	√	√	√	√	√	√	√	√	√
575939155	68	155	9	√	√	√	√	√	√	√	√	√	√
575939175	79	175	9	√	√	√	√	√	√	√	√	√	√
575939200	93	200	9	√	√	√	√	√	√	√	√	√	√
575939286	141	286	9	√	√	√	√	√	√	√	√	√	√
575939360	182	360	9	√	√	√	√	√	√	√	√	√	√
575939000	Open		9	-	-	√	√	√	√	√	√	√	

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 6=Wax Coated, 7=Lead Coated, 8=Wax-Over Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B

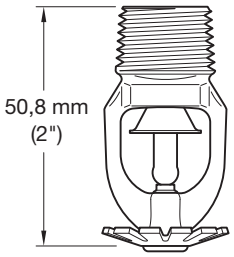
Conventional (Old Style)

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	TY365: UL, VdS, TY3650: LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY365, TY3650
Wrench Type	W-Type 6
Tech Data Sheet	**TFP662**

Ordinary and Extra High Hazard ■ 5 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

TY-B, K=80 (5.6), ½" NPT

Upright or Pendent • K=80 [5.6]
½" NPT • SIN TY365



K=80 [5.6] • ½" NPT • TFP662												
Part No.		Temp.		Finish Code	Approvals & Listings						
SIN TY365	LPCB Approved SIN TY3650	°C	°F		VdS	LPCB TY3650	CE	Ukrainian	Belarusian	Fire Academy of Russia	VKF
775731135	775731135-L	57	135	1	√	√	√	√	√	√	√
775731155	775731155-L	68	155	1	√	√	√	√	√	√	√
775731175	775731175-L	79	175	1	√	√	√	√	√	√	√
775731200	775731200-L	93	200	1	√	√	√	√	√	√	√
775731286	775731286-L	141	286	1	√	√	√	√	√	√	√
775731360	775731360-L	182	360	1	√	√	√	√	√	√	√
775733135	775733135-L	57	135	3	√	√	√	√	√	√	√
775733155	775733155-L	68	155	3	√	√	√	√	√	√	√
775733175	775733175-L	79	175	3	√	√	√	√	√	√	√
775733200	775733200-L	93	200	3	√	√	√	√	√	√	√
775733286	775733286-L	141	286	3	√	√	√	√	√	√	√
775733360	775733360-L	182	360	3	√	√	√	√	√	√	√
775734135	775734135-L	57	135	4	√	√	√	√	√	√	√
775734155	775734155-L	68	155	4	√	√	√	√	√	√	√
775734175	775734175-L	79	175	4	√	√	√	√	√	√	√
775734200	775734200-L	93	200	4	√	√	√	√	√	√	√
775734286	775734286-L	141	286	4	√	√	√	√	√	√	√
775734360	775734360-L	182	360	4	√	√	√	√	√	√	√
775739135	775739135-L	57	135	9	√	√	√	√	√	√	√
775739155	775739155-L	68	155	9	√	√	√	√	√	√	√
775739175	775739175-L	79	175	9	√	√	√	√	√	√	√
775739200	775739200-L	93	200	9	√	√	√	√	√	√	√
775739286	775739286-L	141	286	9	√	√	√	√	√	√	√
775739360	775739360-L	182	360	9	√	√	√	√	√	√	√

Use suffix "I" for ISO 7-1 connection; for example, 77-573-4-175-I

LPCB approved Series TY-B Conventional Sprinkler assemblies only: Use sufix "L" for LPCB Approved assemblies (e.g., 77-573-4-175-L or 77-573-4-175-IL for LPCB Approved and ISO 7-1 connection)

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

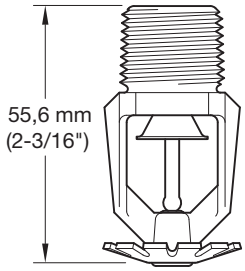
Conventional (Old Style)

K Factor	K= 80 (5.6), K= 115 (8.0)
Thread Size	½" NPT · ¾" NPT
Approvals	UL, C-UL, LPCB, VdS, NYC
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Lead Coated
SIN	TY3631, TY4631
Wrench Type	W-Type 6
Tech Data Sheet	**TFP666**

Ordinary and Extra High Hazard ■ 3 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

TY-FRB, K=80 (5.6), ½" NPT

Upright or Pendent · K=80 [5.6]
½" NPT · SIN TY3631



K=80 [5.6] · ½" NPT · TFP666													
Part No.	Temperature		Finish Code	Approvals & Listings									
SIN TY3631	°C	°F		VdS	FM	UL	CE	MED	SAS	Ukrainian	Fire Academy of Russia	VKF
573731135	57	135	1	√	√	√	√	√	√	√	√	√
573731155	68	155	1	√	√	√	√	√	√	√	√	√
573731175	79	175	1	√	√	√	√	√	√	√	√	√
573731200	93	200	1	√	√	√	√	√	√	√	√	√
573731286	141	286	1	√	√	√	√	√	√	√	√	√
573731360	182	360	1	√	√	√	√	√	√	√	√	√
573733135	57	135	3	√	√	√	√	√	√	√	√	√
573733155	68	155	3	√	√	√	√	√	√	√	√	√
573733175	79	175	3	√	√	√	√	√	√	√	√	√
573733200	93	200	3	√	√	√	√	√	√	√	√	√
573733286	141	286	3	√	√	√	√	√	√	√	√	√
573733360	182	360	3	√	√	√	√	√	√	√	√	√
573734135	57	135	4	√	√	√	√	√	√	√	√	√
573734155	68	155	4	√	√	√	√	√	√	√	√	√
573734175	79	175	4	√	√	√	√	√	√	√	√	√
573734200	93	200	4	√	√	√	√	√	√	√	√	√
573734286	141	286	4	√	√	√	√	√	√	√	√	√
573734360	182	360	4	√	√	√	√	√	√	√	√	√
573736155	68	155	5	√	√	√	√	√	√	√	√	√
573736200	93	200	5	√	√	√	√	√	√	√	√	√
573737135	57	135	7	-	-	√	√	√	√	√	√	√
573737155	68	155	7	-	-	√	√	√	√	√	√	√
573737175	79	175	7	-	-	√	√	√	√	√	√	√
573737200	93	200	7	-	-	√	√	√	√	√	√	√
573737286	141	286	7	-	-	√	√	√	√	√	√	√
573737360	182	360	7	-	-	√	√	√	√	√	√	√
573739135	57	135	9	√	√	√	√	√	√	√	√	√
573739155	68	155	9	√	√	√	√	√	√	√	√	√
573739175	79	175	9	√	√	√	√	√	√	√	√	√
573739200	93	200	9	√	√	√	√	√	√	√	√	√
573739286	141	286	9	√	√	√	√	√	√	√	√	√
573739360	182	360	9	√	√	√	√	√	√	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

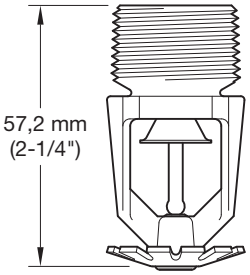
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-FRB

TY-FRB, K=115 (8.0), ¾" NPT

Upright or Pendent • K=115 [8.0]
¾" NPT • SIN TY4631



K=115 [8.0] • ¾" NPT • TFP666												
Part No.	Temperature		Finish Code	Approvals & Listings								
SIN TY4631	°C	°F		VdS	FM	UL	CE	MED	SAS	Ukrainian	Fire Academy of Russia	VKF
573731135	57	135	1	√	√	√	√	√	√	√	√	√
573731155	68	155	1	√	√	√	√	√	√	√	√	√
573731175	79	175	1	√	√	√	√	√	√	√	√	√
573731200	93	200	1	√	√	√	√	√	√	√	√	√
573731286	141	286	1	√	√	√	√	√	√	√	√	√
573733135	57	135	3	√	√	√	√	√	√	√	√	√
573733155	68	155	3	√	√	√	√	√	√	√	√	√
573733175	79	175	3	√	√	√	√	√	√	√	√	√
573733200	93	200	3	√	√	√	√	√	√	√	√	√
573733286	141	286	3	√	√	√	√	√	√	√	√	√
573734135	57	135	4	√	√	√	√	√	√	√	√	√
573734155	68	155	4	√	√	√	√	√	√	√	√	√
573734175	79	175	4	√	√	√	√	√	√	√	√	√
573734200	93	200	4	√	√	√	√	√	√	√	√	√
573734286	141	286	4	√	√	√	√	√	√	√	√	√
573736155	68	155	5	√	√	√	√	√	√	√	√	√
573736200	93	200	5	√	√	√	√	√	√	√	√	√
573737135	57	135	7	-	-	√	√	√	√	√	√	√
573737155	68	155	7	-	-	√	√	√	√	√	√	√
573737175	79	175	7	-	-	√	√	√	√	√	√	√
573737200	93	200	7	-	-	√	√	√	√	√	√	√
573737286	141	286	7	-	-	√	√	√	√	√	√	√
573739135	57	135	9	√	√	√	√	√	√	√	√	√
573739155	68	155	9	√	√	√	√	√	√	√	√	√
573739175	79	175	9	√	√	√	√	√	√	√	√	√
573739200	93	200	9	√	√	√	√	√	√	√	√	√
573739286	141	286	9	√	√	√	√	√	√	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 5=Jet Black Polyester RAL9005, 7=Lead Coated, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-FRB

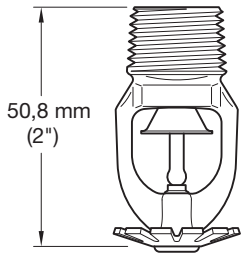
Conventional (Old Style)

K Factor	K= 80 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, VdS, LPCB (TY3630 Only)
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY363, TY3630
Wrench Type	W-Type 6
Tech Data Sheet	**TFP667**

Ordinary and Extra High Hazard ■ The TYCO Series TY-FRB, Conventional Sprinklers, are quick response, standard coverage, decorative 3 mm glass bulb type spray sprinklers ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

TY-FRB, K=80 (5.6), 1/2" NPT

Upright or Pendent • K=80 [5.6]
1/2" NPT • SIN TY363



K=80 [5.6] • 1/2" NPT • TFP667													
Part No.		Temp.		Finish Code	Approvals & Listings							
SIN TY363	LPCB Approved SIN TY3630	°C	°F		VdS	UL	LPCB TY3650	CE	Ukrainian	Belarusian	Fire Academy of Russia	VKF
773731135	773731135-L	57	135	1	√	√	√	√	√	√	√	√
773731155	773731155-L	68	155	1	√	√	√	√	√	√	√	√
773731175	773731175-L	79	175	1	√	√	√	√	√	√	√	√
773731200	773731200-L	93	200	1	√	√	√	√	√	√	√	√
773731286	773731286-L	141	286	1	√	√	√	√	√	√	√	√
773733135	773733135-L	57	135	3	√	√	√	√	√	√	√	√
773733155	773733155-L	68	155	3	√	√	√	√	√	√	√	√
773733175	773733175-L	79	175	3	√	√	√	√	√	√	√	√
773733200	773733200-L	93	200	3	√	√	√	√	√	√	√	√
773733286	773733286-L	141	286	3	√	√	√	√	√	√	√	√
773734135	773734135-L	57	135	4	√	√	√	√	√	√	√	√
773734155	773734155-L	68	155	4	√	√	√	√	√	√	√	√
773734175	773734175-L	79	175	4	√	√	√	√	√	√	√	√
773734200	773734200-L	93	200	4	√	√	√	√	√	√	√	√
773734286	773734286-L	141	286	4	√	√	√	√	√	√	√	√
773739135	773739135-L	57	135	9	√	√	√	√	√	√	√	√
773739155	773739155-L	68	155	9	√	√	√	√	√	√	√	√
773739175	773739175-L	79	175	9	√	√	√	√	√	√	√	√
773739200	773739200-L	93	200	9	√	√	√	√	√	√	√	√
773739286	773739286-L	141	286	9	√	√	√	√	√	√	√	√

Use suffix "I" for ISO 7-1 connection; for example, 77-373-4-175-I

LPCB approved Series TY-B Conventional Sprinkler assemblies only: Use sufix "L" for LPCB Approved assemblies (e.g., 77-373-4-175-L or 77-373-4-175-IL for LPCB Approved and ISO 7-1 connection)

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B & TY-FRB

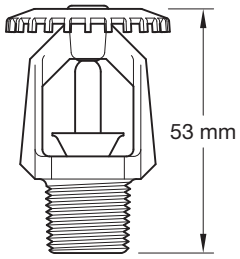
Upright, Pendent & Recessed Pendent

K Factor	K= 58
Thread Size	ISO 7-R$^{3}/_{8}$
Approvals	VdS, LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 5mm Bulb - 182°C (360°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY2108, TY2208,TY2109, TY2209
Wrench Type	W-Type 6 & W-Type 7 (Recessed)
Tech Data Sheet	**TFP670**

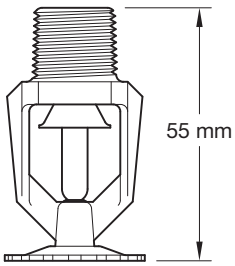
The TYCO Series TY-B (5 mm Bulb) and TY-FRB (3 mm Bulb) ■ 10 mm orifice Upright and Pendent Sprinklers ■ Both the Upright and Pendent Sprinklers produce a hemispherical water distribution pattern below the deflector.

TY-B, K=58, ISO 7-R $^{3}/_{8}$

Upright • K=58
ISO 7-R $^{3}/_{8}$ • SIN TY2108



Pendent • K=58
ISO 7-R $^{3}/_{8}$ • SIN TY2208



K=58 • ISO 7-R $^{3}/_{8}$ • TFP670										
Part No. 5mm Bulb		Temp.		Finish Code	Approvals & Listings					
Upright SIN TY2108	Pendent SIN TY2208	°C	°F		VdS	LPCB	CE	MED	SAS	VKF
575801135	575811135	57	135	1	♦	√	√	√	√	√
575801155	575811155	68	155	1	♦	√	√	√	√	√
575801175	575811175	79	175	1	♦	√	√	√	√	√
575801200	575811200	93	200	1	♦	√	√	√	√	√
575801286	575811286	141	286	1	♦	√	√	√	√	√
575801360	575811360	182	360	1	♦	√	√	√	√	√
575803135	575813135	57	135	3	♦	√	√	√	√	√
575803155	575813155	68	155	3	♦	√	√	√	√	√
575803175	575813175	79	175	3	♦	√	√	√	√	√
575803200	575813200	93	200	3	♦	√	√	√	√	√
575803286	575813286	141	286	3	♦	√	√	√	√	√
575803360	575813360	182	360	3	♦	√	√	√	√	√
575804135	575814135	57	135	4	♦	√	√	√	√	√
575804155	575814155	68	155	4	♦	√	√	√	√	√
575804175	575814175	79	175	4	♦	√	√	√	√	√
575804200	575814200	93	200	4	♦	√	√	√	√	√
575804286	575814286	141	286	4	♦	√	√	√	√	√
575804360	575814360	182	360	4	♦	√	√	√	√	√
575809135	575819135	57	135	9	♦	√	√	√	√	√
575809155	575819155	68	155	9	♦	√	√	√	√	√
575809175	575819175	79	175	9	♦	√	√	√	√	√
575809200	575819200	93	200	9	♦	√	√	√	√	√
575809286	575819286	141	286	9	♦	√	√	√	√	√
575809360	575819360	182	360	9	♦	√	√	√	√	√

√=Both Approved, ♦=Recessed Pendent Not Approved

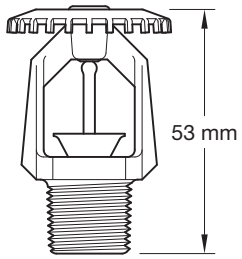
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

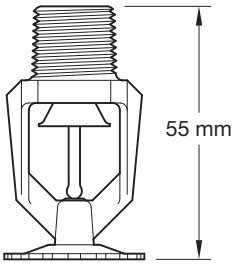
TY-B & TY-FRB

TY-FRB, K=58, ISO 7-R 3/8

Upright · K=58
ISO 7-R 3/8 · SIN TY2109



Pendent · K=58
ISO 7-R 3/8 · SIN TY2209



K=58 · ISO 7-R 3/8 · TFP670										
Part No. 3mm Bulb		Temp.		Finish Code	Approvals & Listings					
Upright SIN TY2109	Pendent SIN TY2209	°C	°F		VdS	LPCB	CE	MED	SAS	VKF
573801135	573811135	57	135	1	♦	√	√	√	√	√
573801155	573811155	68	155	1	♦	√	√	√	√	√
573801175	573811175	79	175	1	♦	√	√	√	√	√
573801200	573811200	93	200	1	♦	√	√	√	√	√
573801286	573811286	141	286	1	♦	√	√	√	√	√
573803135	573813135	57	135	3	♦	√	√	√	√	√
573803155	573813155	68	155	3	♦	√	√	√	√	√
573803175	573813175	79	175	3	♦	√	√	√	√	√
573803200	573813200	93	200	3	♦	√	√	√	√	√
573803286	573813286	141	286	3	♦	√	√	√	√	√
573804135	573814135	57	135	4	♦	√	√	√	√	√
573804155	573814155	68	155	4	♦	√	√	√	√	√
573804175	573814175	79	175	4	♦	√	√	√	√	√
573804200	573814200	93	200	4	♦	√	√	√	√	√
573804286	573814286	141	286	4	♦	√	√	√	√	√
573809135	573819135	57	135	9	♦	√	√	√	√	√
573809155	573819155	68	155	9	♦	√	√	√	√	√
573809175	573819175	79	175	9	♦	√	√	√	√	√
573809200	573819200	93	200	9	♦	√	√	√	√	√
573809286	573819286	141	286	9	♦	√	√	√	√	√

√=Both Approved, ♦=Recessed Pendent Not Approved

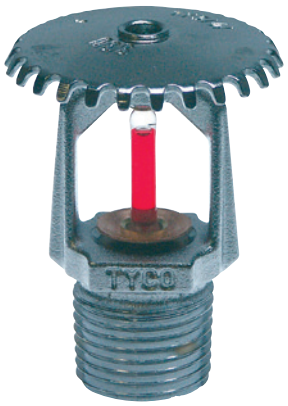
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B

Upright, & Pendent, Special Response

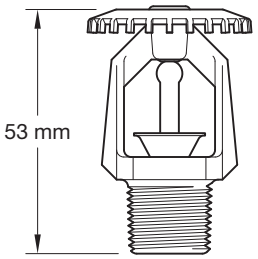


K Factor	K= 57, 80, 115
Thread Size	ISO 7-R3/8, 1/2" NPT, 3/4" NPT
Approvals	VdS, LPCB
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY2149, TY2249, TY3141, TY3241, TY4141, TY4241
Wrench Type	W-Type 6 & W-Type 7 (Recessed)
Tech Data Sheet	**TFP672**

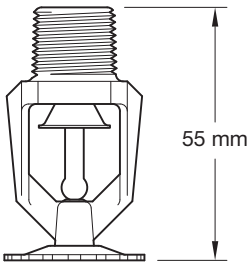
Upright and Pendent Sprinklers described in this data sheet are special response - standard coverage ■ Decorative 4 mm glass bulb type spray sprinklers designed for use in accordance with the installation rules recognised by the applicable Approval agency.

TY-B, K=57, ISO 7-R 3/8

Upright • K=57
ISO 7-R 3/8 • SIN TY2149



Pendent • K=57
ISO 7-R 3/8 • SIN TY2149



K=57 • ISO 7-R 3/8 • TFP672							
Part No.		Temp.		Finish Code	Approvals & Listings		
Upright SIN TY2149	Pendent SIN TY2249	°C	°F		VdS	CE	VKF
574801135	574811135	57	135	1	√	√	√
574801155	574811155	68	155	1	√	√	√
574801175	574811175	79	175	1	√	√	√
574801200	574811200	93	200	1	√	√	√
574801286	574811286	141	286	1	√	√	√
574803135	574813135	57	135	3	√	√	√
574803155	574813155	68	155	3	√	√	√
574803175	574813175	79	175	3	√	√	√
574803200	574813200	93	200	3	√	√	√
574803286	574813286	141	286	3	√	√	√
574804135	574814135	57	135	4	√	√	√
574804155	574814155	68	155	4	√	√	√
574804175	574814175	79	175	4	√	√	√
574804200	574814200	93	200	4	√	√	√
574804286	574814286	141	286	4	√	√	√
574809135	574819135	57	135	9	√	√	√
574809155	574819155	68	155	9	√	√	√
574809175	574819175	79	175	9	√	√	√
574809200	574819200	93	200	9	√	√	√
574809286	574819286	141	286	9	√	√	√

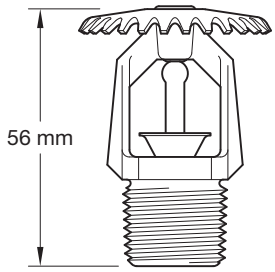
Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

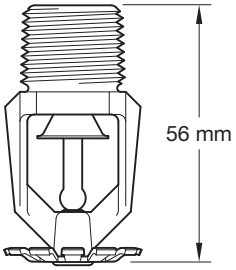
TY-B

TY-B, K=80, ½" NPT

Upright · K=80
½" NPT · SIN TY3141



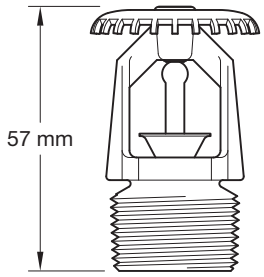
Pendent · K=80
½" NPT · SIN TY3241



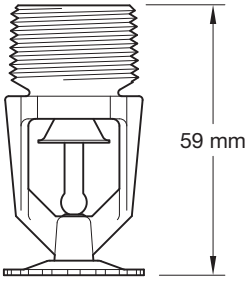
K=80 · ½" NPT · TFP672							
Part No.		Temp.		Finish Code	Approvals & Listings		
Upright SIN TY3141	Pendent SIN TY3241	°C	°F		VdS	CE	VKF
574701135	574711135	57	135	1	√	√	√
574701155	574711155	68	155	1	√	√	√
574701175	574711175	79	175	1	√	√	√
574701200	574711200	93	200	1	√	√	√
574701286	574711286	141	286	1	√	√	√
574703135	574713135	57	135	3	√	√	√
574703155	574713155	68	155	3	√	√	√
574703175	574713175	79	175	3	√	√	√
574703200	574713200	93	200	3	√	√	√
574703286	574713286	141	286	3	√	√	√
574704135	574714135	57	135	4	√	√	√
574704155	574714155	68	155	4	√	√	√
574704175	574714175	79	175	4	√	√	√
574704200	574714200	93	200	4	√	√	√
574704286	574714286	141	286	4	√	√	√
574709135	574719135	57	135	9	√	√	√
574709155	574719155	68	155	9	√	√	√
574709175	574719175	79	175	9	√	√	√
574709200	574719200	93	200	9	√	√	√
574709286	574719286	141	286	9	√	√	√

TY-B, K=115, ¾" NPT

Upright · K=115
¾" NPT · SIN TY4141



Pendent · K=115
¾" NPT · SIN TY4241



K=115 · ¾" NPT · TFP672							
Part No.		Temp.		Finish Code	Approvals & Listings		
Upright SIN TY4141	Pendent SIN TY4241	°C	°F		VdS	CE	VKF
574901135	574911135	57	135	1	√	√	√
574901155	574911155	68	155	1	√	√	√
574901175	574911175	79	175	1	√	√	√
574901200	574911200	93	200	1	√	√	√
574901286	574911286	141	286	1	√	√	√
574903135	574913135	57	135	3	√	√	√
574903155	574913155	68	155	3	√	√	√
574903175	574913175	79	175	3	√	√	√
574903200	574913200	93	200	3	√	√	√
574903286	574913286	141	286	3	√	√	√
574904135	574914135	57	135	4	√	√	√
574904155	574914155	68	155	4	√	√	√
574904175	574914175	79	175	4	√	√	√
574904200	574914200	93	200	4	√	√	√
574904286	574914286	141	286	4	√	√	√
574909135	574919135	57	135	9	√	√	√
574909155	574919155	68	155	9	√	√	√
574909175	574919175	79	175	9	√	√	√
574909200	574919200	93	200	9	√	√	√
574909286	574919286	141	286	9	√	√	√

Finish Code: 1=Plain Brass, 3=Pure White Polyester RAL9010, 4=Signal White Polyester RAL9003, 9=Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

FTR-1

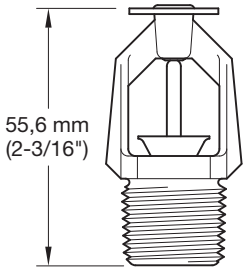
Fixed Temperature Release

K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)
Sprinkler Finish	Natural Brass, White Polyester Coated, Grey TEFLON Coated
SIN	TY3030
Wrench Type	W-Type 6
Tech Data Sheet	**TFP1388**

3 mm bulb ■ Fixed-temperature, heat detector intended for wet or dry pilot release service ■ Maximum 12.2 x 12.2m (40' x 40') spacing ■ Can be used for pilot line service, instead of standard sprinklers, to activate deluge and preaction systems equipped with either wet or dry pilot line detection ■ Corrosion resistant assembly option for outdoor applications (TEFLON coated)

FTR-1, K=80 (5.6), ½" NPT

Upright or Pendent · K=80 [5.6]
½" NPT · SIN TY3030



K=80 [5.6] · ½" NPT · TFP1388				
Part No.	Temperature		Finish Code	Approvals & Listings
SIN TY3030	°C	°F		UL
510411135	57	135	1	√
510411155	68	155	1	√
510411175	79	175	1	√
510411200	93	200	1	√
510413135	57	135	3	√
510413155	68	155	3	√
510413175	79	175	3	√
510413200	93	200	3	√
510414135	57	135	4	√
510414155	68	155	4	√
510414175	79	175	4	√
510414200	93	200	4	√

Finish Code: 1=Plain Brass, 3=Green TEFLON Coated, 4=White Polyester Coated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-L

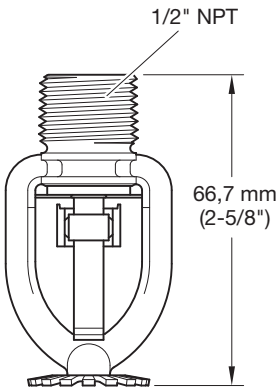
Pendent

K Factor	K= 80 (5.6) • K= 115 (8.0)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	FM, CE
Temperature	74°C (165°F), 100°C (212°F), 138°C (280°F)
Escutcheon Style	Style 20 • Style 65
Sprinkler Finish	Stainless Steel
SIN	K=80 (5.6) - TY3280, K=115 (8.0) - TY4280
Wrench Type	W-TYPE 9, W-Type 10 (For recessed escutcheons)
Tech Data Sheet	**TFP683**

TY-L: solder type, standard response, standard coverage ■ Stainless Steel, rated for corrosion resistance ■ All metal components remove glass parts from facility ■ The properties of these sprinklers are intended to resist corrosion due to cleaning agents used in wash-down procedures required in food production environments ■ Designed for use in light, ordinary and extra-hazard commercial occupancies including food production facilities, factories, refineries and chemical plants.

TY-L, K=80 (5.6), ½" NPT

Pendent • K=80 [5.6]
½" NPT • SIN TY3280

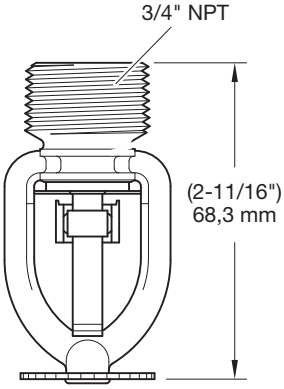


K=80 [5.6] • ½" NPT • TFP683					
Part No.	Temperature		Finish Code	Approvals & Listings	
SIN TY3280	°C	°F		CE	FM
531120165	74	165	0	♦	√
531120212	100	212	0	♦	√
531120280	138	280	0	♦	♦

√=Both Approved, ♦=Recessed Pendent Not Approved

TY-L, K=115 (8.0), ¾" NPT

Pendent • K=115 [8.0]
¾" NPT • SIN TY4280



K=115 [8.0] • ¾" NPT • TFP683					
Part No.	Temperature		Finish Code	Approvals & Listings	
SIN TY4280	°C	°F		CE	FM
531020165	74	165	0	♦	♦
531020212	100	212	0	♦	♦
531020280	138	280	0	♦	♦

√=Both Approved, ♦=Recessed Pendent Not Approved

Finish Code: 0=Stainless Steel

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B & TY-FRB (Alternate Materials Of Construction)

Upright & Pendent Sprinklers

K Factor	K= 80 (5.6) • K= 115 (8.0)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, LPCB, Lloyds, CE, MED,SAS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Style	Style 10 • Style 40
Sprinkler Finish	Stainless Steel, SMO, Titanium
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP680**

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Alternate materials of construction (Stainless Steel, SMO, or Titanium) are utilised to extend the life of a sprinkler beyond that which might be expected of copper alloy sprinklers exposed to corrosive atmospheres, (SMO = stainless-molybdenum alloyed)

P/N 57 — XXX — 0 — XXX — SUFFIX

Standard Response (SR)	
570	TY-B 5.6K Upright SR
590	TY-B 8.0K Upright SR
571	TY-B 5.6K Pendent SR
591	TY-B 8.0K Pendent SR
573	TY-B 5.6K C/UP SR
593	TY-B 8.0K C/UP SR

Quick Response (QR)	
370	TY-FRB 5.6K Upright QR
390	TY-FRB 8.0K Upright QR
371	TY-FRB 5.6K Pendent QR
391	TY-FRB 8.0K Pendent QR
373	TY-FRB 5.6K C/UP QR
393	TY-FRB 8.0K C/UP QR

Temperature Rating	
135	135°F (57°C)
155	155°F (68°C)
175	175°F (79°C)
200	200°F (93°C)
286	286°F (141°C)
360	360°F (182°C)*

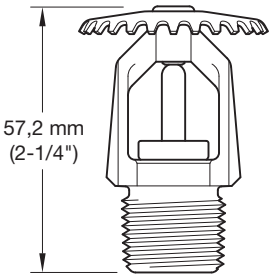
* TY-B only

Material	
None	Stainless Steel
M	SMO**
T	Titanium**

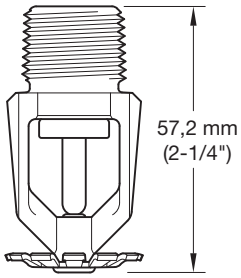
**5.6K only

TY-B, K=80 (5.6), 1/2" NPT

Upright • K=80 (5.6)
1/2" NPT
TY-B: SIN TY8191
TY-B SMO: SIN TY8192
TY-B Titanium: SIN TY8193

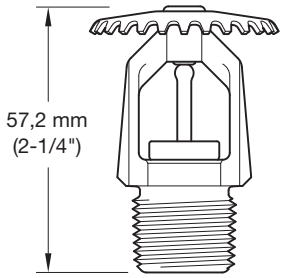


Pendent • K=80 (5.6)
1/2" NPT
TY-B: SIN TY8291
TY-B SMO: SIN TY8292
TY-B Titanium: SIN TY8293

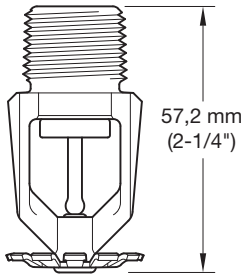


TY-FRB, K=80 (5.6), 1/2" NPT

Upright • K=80 (5.6)
1/2" NPT
TY-FRB: SIN TY8181
TY-FRB SMO: SIN TY8182
TY-FRB Titanium: SIN TY8183



Pendent • K=80 (5.6)
1/2" NPT
TY-FRB: SIN TY8281
TY-FRB SMO: SIN TY8282
TY-FRB Titanium: SIN TY8283



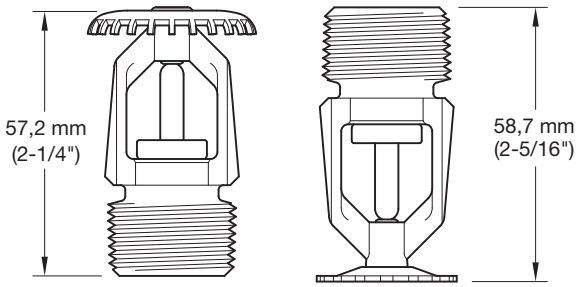
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B & TY-FRB (Alternate Materials Of Construction)

TY-B, K=115 (8.0), ¾" NPT

Upright · K=115 (8.0)
¾" NPT · SIN TY9191

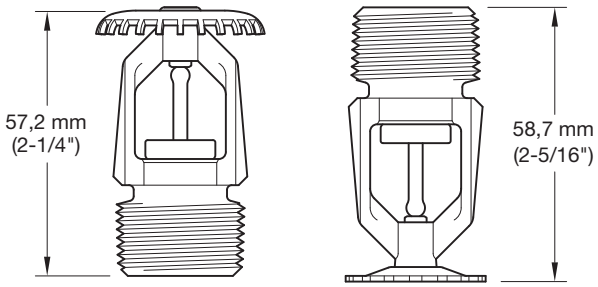
Pendent · K=115 (8.0)
¾" NPT · SIN TY9291



TY-FRB, K=115 (8.0), ¾" NPT

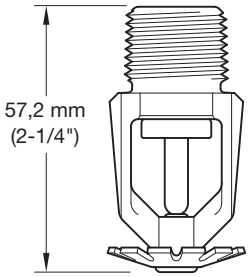
Upright · K=115 (8.0)
¾" NPT · SIN TY9181

Pendent · K=115 (8.0)
¾" NPT · SIN TY9281



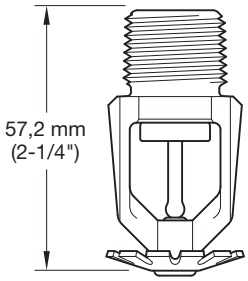
TY-B, K=80 (5.6), ½" NPT

Conventional · K=80 (5.6)
½" NPT
TY-B: SIN TY8691
TY-B SMO: SIN TY8692
TY-B Titanium: SIN TY8693



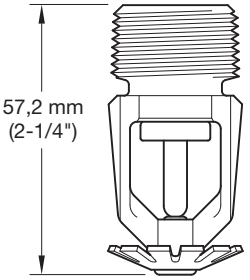
TY-FRB, K=80 (5.6), ½" NPT

Conventional · K=80 (5.6)
½" NPT
TY-FRB: SIN TY8681
TY-FRB SMO: SIN TY8682
TY-FRB Titanium: SIN TY8683



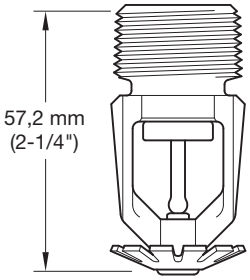
TY-B, K=115 (8.0), ¾" NPT

Conventional · K=115 (8.0)
¾" NPT · SIN TY9691



TY-FRB, K=115 (8.0), ¾" NPT

Conventional · K=115 (8.0)
¾" NPT · SIN TY9681



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Special Application Sprinklers

TY-B & TY-FRB (Alternate Materials Of Construction)

Vertical, Horizontal & Recessed Horizontal Sidewall Sprinklers

K Factor	K= 80 (5.6)
Thread Size	½" NPT
Approvals	UL, C-UL, LPCB, Lloyds, CE, MED,SAS
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Style	Style 10
Sprinkler Finish	Stainless Steel, SMO, Titanium
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP680**

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Alternate materials of construction (Stainless Steel, SMO, or Titanium) are utilised to extend the life of a sprinkler beyond that which might be expected of copper alloy sprinklers exposed to corrosive atmospheres (SMO = stainless-molybdenum alloyed)

P/N 57 — XXX — 0 — XXX — SUFFIX

	Standard Response (SR)
578	TY-B 5.6K HSW SR
575	TY-B 5.6K VSW SR

	Quick Response (QR)
378	TY-FRB 5.6K HSW QR
375	TY-FRB 5.6K VSW QR

	Temperature Rating
135	135°F (57°C)
155	155°F (68°C)
175	175°F (79°C)
200	200°F (93°C)
286	286°F (141°C)
360	360°F (182°C)*

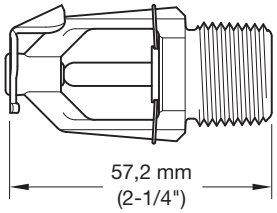
* TY-B only

	Material
None	Stainless Steel
M	SMO**
T	Titanium**

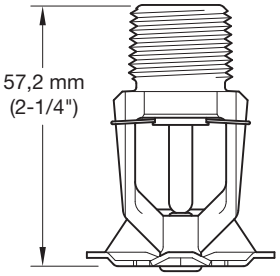
**5.6K only

TY-B, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 (5.6)
½" NPT
TY-B: SIN TY8391
TY-B SMO: SIN TY8392
TY-B Titanium: SIN TY8393

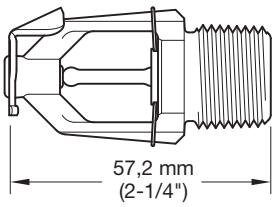


Vertical Sidewall · K=80 (5.6)
½" NPT
TY-B: SIN TY8491
TY-B SMO: SIN TY8492
TY-B Titanium: SIN TY8493

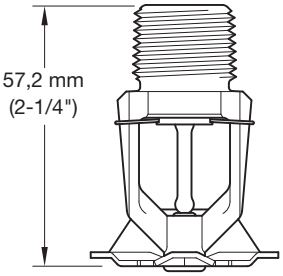


TY-FRB, K=80 (5.6), ½" NPT

Horizontal Sidewall · K=80 (5.6)
½" NPT
TY-FRB: SIN TY8381
TY-FRB SMO: SIN TY8382
TY-FRB Titanium: SIN TY8383



Vertical Sidewall · K=80 (5.6)
½" NPT
TY-FRB: SIN TY8481
TY-FRB SMO: SIN TY8482
TY-FRB Titanium: SIN TY8483



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

TY-B & TY-FRB (Poly-Stainless)

Upright, Pendent & Horizontal Sidewall Sprinklers

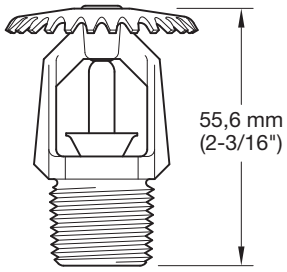
K Factor	K= 80 (5.6) · K= 115 (8.0)
Thread Size	1/2" NPT · 3/4" NPT
Approvals	Refer to Pages listed below under Tech Data Sheets for approval listings
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Escutcheon Style	Style 10 · Style 40
Sprinkler Finish	Poly-Stainless
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	**TFP151** (page 1-6), **TFP161** (page 1-8), **TFP171** (page 1-12, 1-14), **TFP176** (page 1-16)

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Corrosive environments can wreak havoc on standard sprinkler heads. The TYCO Poly-Stainless sprinklers are here to maintain the aesthetics of a sprinkler in a wide range of corrosive locations.

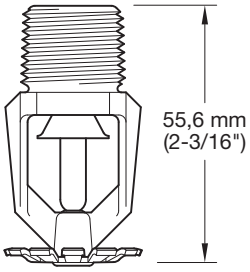
TY-B

TY-B, K=80 (5.6), 1/2" NPT

Upright · K=80 [5.6]
1/2" NPT · SIN TY3151

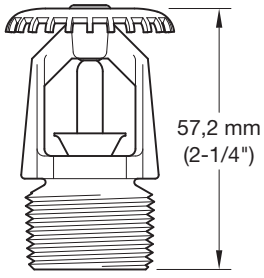


Pendent · K=80 [5.6]
1/2" NPT · SIN TY3251

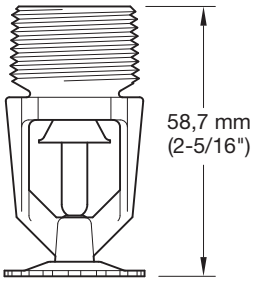


TY-B, K=115 (8.0), 3/4" NPT

Upright · K=115 [8.0]
3/4" NPT · SIN TY4151

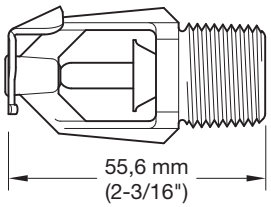


Pendent · K=115 [8.0]
3/4" NPT · SIN TY4251



TY-B, K=80 (5.6), 1/2" NPT

Horizontal Sidewall · K=80 [5.6]
1/2" NPT · SIN TY3351

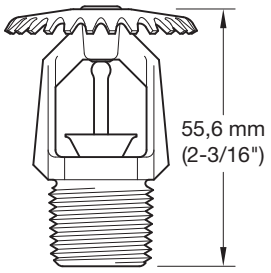


Special Application Sprinklers

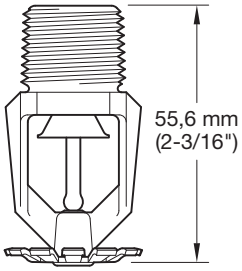
TY-B & TY-FRB (Poly-Stainless)

TY-FRB, K=80 (5.6), ½" NPT

Upright • K=80 [5.6]
½" NPT • SIN TY3131

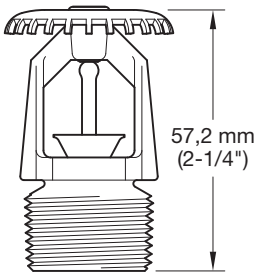


Pendent • K=80 [5.6]
½" NPT • SIN TY3231

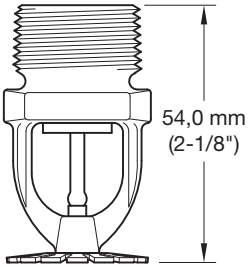


TY-FRB, K=115 (8.0), ¾" NPT

Upright • K=115 [8.0]
¾" NPT • SIN TY4131

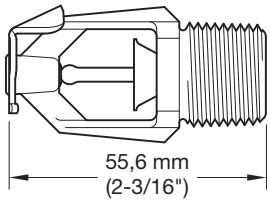


Pendent • K=115 [8.0]
¾" NPT • SIN TY4231



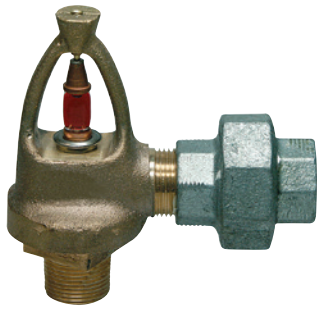
TY-FRB, K=80 (5.6), ½" NPT

Horizontal Sidewall • K=80 [5.6]
½" NPT • SIN TY3331

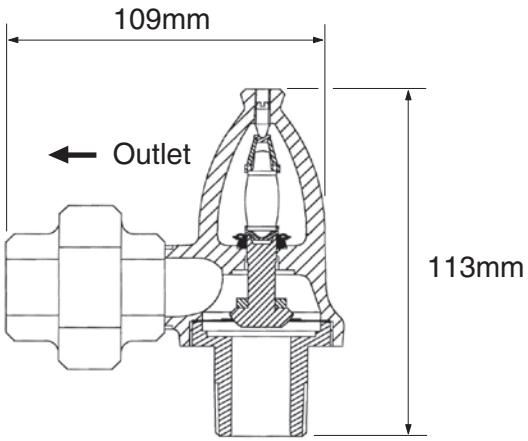


MJCS

Multi Jet Controls, Single Inlet, Single Outlet



Thread Size	¾" BSP x ¾" BSPT
Approvals	LPCB
Temperature	68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F), 227°C (440°F), 260°C (500°F)
Sprinkler Finish	Natural Brass
SIN	Refer to Tech Data Sheet for SIN Numbers
Tech Data Sheet	**Contact Tyco Fire Products for more Information**

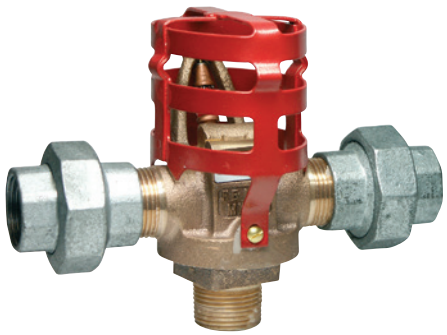


MJCS			
Part No.	Temperature		Approvals & Listings
	°C	°F	LPCB
MJCSO0027B	68	155	√
MJCSO0027D	79	175	√
MJCSO0027E	93	200	√
MJCSO0027G	141	286	√
MJCSO0027H	182	360	√
MJCSO0027I	227	440	√
MJCSO0027J	260	500	√

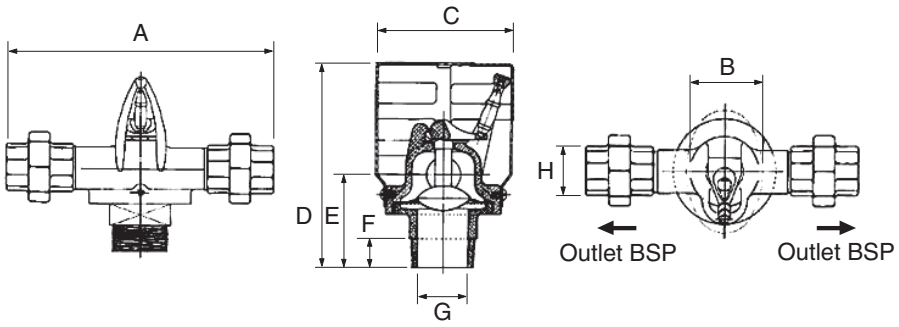
Multiple Jet Controls

MJCD

Multi Jet Controls, Single Inlet, Double Outlet



Inlet Size	DN20 - DN40 Male, or DN50 Female
Outlet Size	20 - 40mm (¾" - 1-½") BSP
Approvals	LPCB
Temperature	68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F), 227°C (440°F), 260°C (500°F)
Finish	Natural Brass
SIN	Refer to Tech Data Sheet for SIN Numbers
Tech Data Sheet	**Contact Tyco Fire Products for more Information**



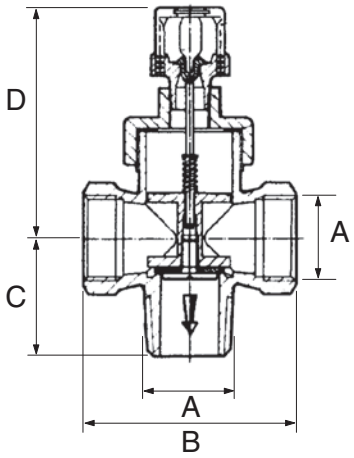
Part No.	Temperature		Dimensions (mm)										Approvals & Listings
									G		H		
	°C	°F	A	B	C	D	E	F	mm	In.	mm	In	LPCB
MJCDO0027B	68	[155]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027D	79	[175]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027E	93	[200]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027G	141	[286]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027H	182	[360]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027I	227	[440]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0027J	260	[500]	165	-	-	110	50	20	20	¾"	20	¾"	√
MJCDO0034B	68	[155]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034D	79	[175]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034E	93	[200]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034G	141	[286]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034H	182	[360]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034I	227	[440]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0034J	260	[500]	196	67	105	148	60	23	25	1"	25	1"	√
MJCDO0048B	68	[155]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048D	79	[175]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048E	93	[200]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048G	141	[286]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048H	182	[360]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048I	227	[440]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0048J	260	[500]	230	67	107	165	70	25	40	1-½"	25	1"	√
MJCDO0060B	68	[155]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060D	79	[175]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060E	93	[200]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060G	141	[286]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060H	182	[360]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060I	227	[440]	225	69	136	182	60	25	50	2"	40	1-½"	√
MJCDO0060J	260	[500]	225	69	136	182	60	25	50	2"	40	1-½"	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

MJC

Multi Jet Controls, Double Inlet, Single Outlet

Thread Size	¾" BSP x ¾" BSPT
Approvals	VdS
Temperature	68°C (155°F)
Bulb	5mm
Response	Standard Response
Sprinkler Finish	Natural Brass
SIN	Refer to Tech Data Sheet for SIN Numbers
Tech Data Sheet	**Contact Tyco Fire Products for more Information**



Part No.	Temperature		Dimensions (mm)				Approvals & Listings
	°C	°F	Equivalent Length	B	C	D	VdS
2122206	68°C	155°F	2.2 m	105	58	110	√

Sprinkler Accessories

For use with the sprinklers and nozzles described in this Catalogue.

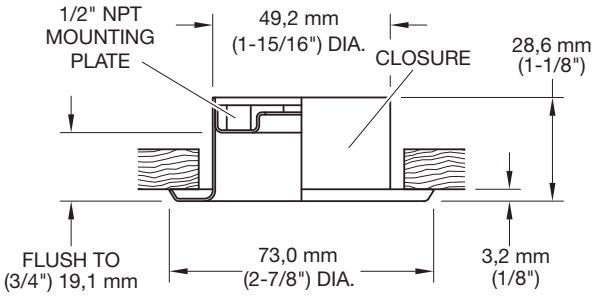
- Improve Appearance
- Conceal Clearance Holes
- Protection From Damage
- Onsite Emergency Storage Supply

Escutcheon Plates

1/2" NPT Recessed Escutcheons

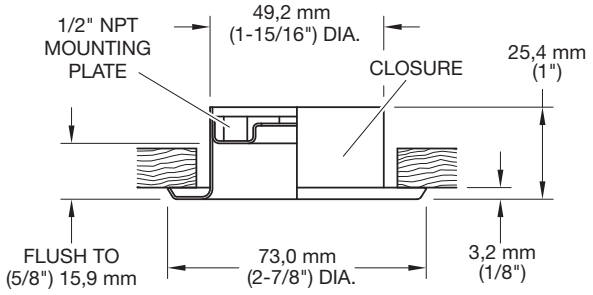
Thread Size	1/2" NPT - Styles 10, 15, 20, & 50
Approvals	Recessed Escutcheons are detailed in individual pendent and horizontal sidewall sprinkler data sheets
Escutcheon Styles	Styles 10, 15, 20, & 50
Finishes	Pure White, Signal White, Jet Black, Chrome Plated, Brass Plated, Plain, Grey Aluminium
Tech Data Sheet	**TFP770**

Consists of a mounting plate and closure for finished appearance in ceilings or soffits ■ Intended for use in areas with finished ceilings or walls, and the adjustment provided by these escutcheons reduces the accuracy to which fixed piping to the sprinklers must be cut, while providing a decorative recessed sprinkler installation ■ Primarily designed for use with standard spray, quick response sprinklers and the Designer residential sidewall sprinklers ■ Maximum 12,7 to 19,1mm (1/2" to 3/4") adjustment



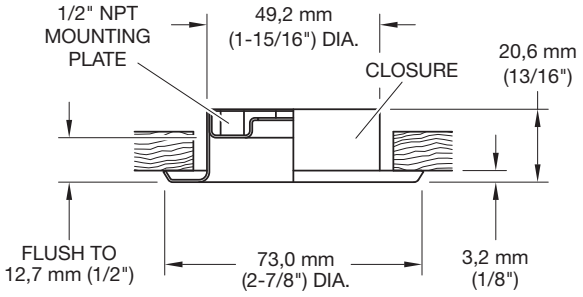
STYLE 10 RECESSED ESCUTCHEON, 1/2 IN. NPT - 3/4 IN. ADJUSTMENT

Style 10 - Part No.		Finish
Steel	Stainless Steel	
-	567011010	Plain Unpolished
567012010	-	Brass Plated
567013010	-	Pure White (RAL9010)
567014010	567010010	Signal White (RAL9003)
567016010	-	Jet Black (RAL9005)
-	567017010	Grey Aluminium (RAL9007)
567019010	-	Chrome Plated



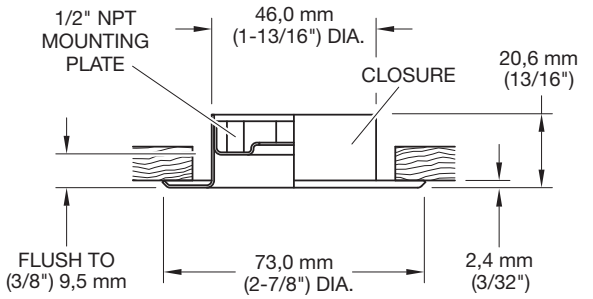
STYLE 15 RECESSED ESCUTCHEON 1/2 IN. NPT - 5/8 IN. ADJUSTMENT

Style 15 - Part No.		Finish
Steel	Stainless Steel	
567152010	-	Brass Plated
567153010	-	Pure White (RAL9010)
567154010	567150010	Signal White (RAL9003)
567156010	-	Jet Black (RAL9005)
567159010	-	Chrome Plated



STYLE 20 RECESSED ESCUTCHEON 1/2 IN. NPT - 1/2 IN. ADJUSTMENT

Style 20 - Part No.		Finish
Steel	Stainless Steel	
-	567051010	Plain Unpolished
567052010	-	Brass Plated
567053010	-	Pure White (RAL9010)
567054010	567050010	Signal White (RAL9003)
567056010	-	Jet Black (RAL9005)
567059010	-	Chrome Plated



STYLE 50 RECESSED ESCUTCHEON 1/2 IN. NPT - 3/8 IN. ADJUSTMENT

Style 50 - Part No.		Finish
Steel	Stainless Steel	
-	567111010	Plain Unpolished
567112010	-	Brass Plated
567113010	-	Pure White (RAL9010)
567114010	567110010	Signal White (RAL9003)
567119010	-	Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

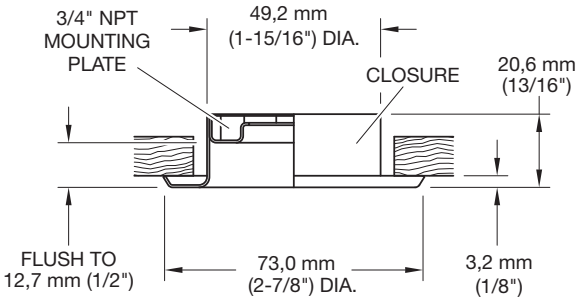
Sprinkler Accessories

Escutcheon Plates

3/8" or 3/4" NPT Recessed Escutcheons

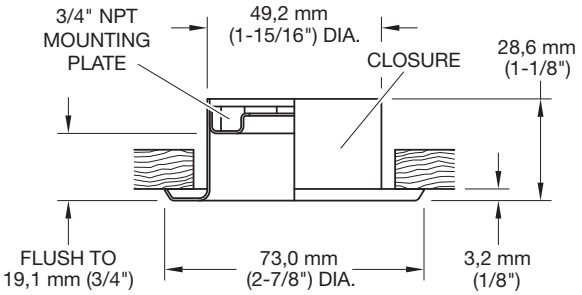
Thread Size	3/8" NPT - Styles 70 3/4" NPT - Styles 30, & 40
Approvals	Recessed Escutcheons are detailed in individual pendent and horizontal sidewall sprinkler data sheets
Escutcheon Styles	Styles 30, 40, & 70
Finishes	Pure White, Signal White, Jet Black, Chrome Plated, Brass Plated, Plain
Tech Data Sheet	**TFP770**

Consists of a mounting plate and closure for finished appearance in ceilings or soffits ■ Intended for use in areas with finished ceilings or walls, and the adjustment provided by these escutcheons reduces the accuracy to which fixed piping to the sprinklers must be cut, while providing a decorative recessed sprinkler installation ■ Primarily designed for use with standard spray, quick response sprinklers and the Designer residential sidewall sprinklers ■ Maximum 12,7 to 19,1mm (1/2" to 3/4") adjustment



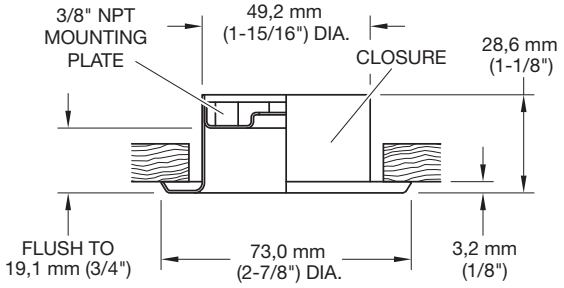
STYLE 30 RECESSED ESCUTCHEON
3/4 IN. NPT - 1/2 IN. ADJUSTMENT

Style 30 - Part No.		Finish
Steel	Stainless Steel	
-	567051011	Plain Unpolished
567052011	-	Brass Plated
567053011	-	Pure White (RAL9010)*
567054011	567050011	Signal White (RAL9003)
567056011	-	Jet Black (RAL9005)
567059011	-	Chrome Plated



STYLE 40 RECESSED ESCUTCHEON
3/4 IN. NPT - 3/4 IN. ADJUSTMENT

Style 40 - Part No.		Finish
Steel	Stainless Steel	
-	567001010	Plain Unpolished
567002010	-	Brass Plated
567003010	-	Pure White (RAL9010)*
567004010	567000010	Signal White (RAL9003)
567006010	-	Jet Black (RAL9005)
-	567007010	Grey Aluminium (RAL9007)
567009010	-	Chrome Plated



STYLE 70 RECESSED ESCUTCHEON
3/8 IN. NPT - 3/4 IN. ADJUSTMENT

Style 70 - Part No.		Finish
Steel	Stainless Steel	
-	ESCSTDSS10	Plain Unpolished
ESCSTDBR10	-	Brass
ESCSTDRA10	-	Pure White (RAL9010)*
ESCSTDWH10		Signal White (RAL9003)
ESCSTDJB10	-	Jet Black (RAL9005)
-		Grey Aluminium (RAL9007)
ESCSTDCH10	-	Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Escutcheon Plates

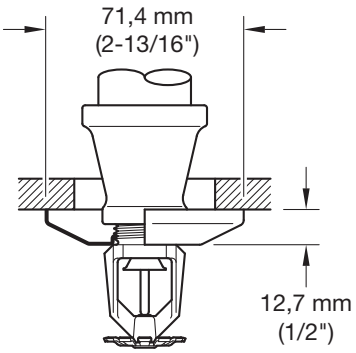
Style 65, One-Piece Flat Escutcheon
Style 401, Two-Piece Adjustable Escutcheon

Style 65

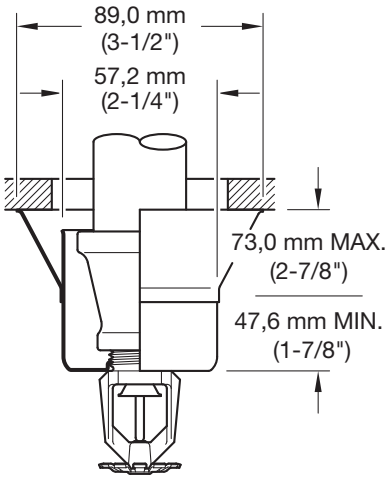
Style 401

Thread Size	1/2" NPT · 3/4" NPT
Approvals	Recessed Escutcheons are detailed in individual pendent and horizontal sidewall sprinkler data sheets
Escutcheon Styles	Styles 65, 401
Finishes	Chrome, Signal White, or Brass
Tech Data Sheet	**TFP777**

Used to improve the overall appearance of the sprinkler installation by concealing the clearance holes required for wall or ceiling installation ■ Deep, two-piece, adjustable ■ Available for 1/2" and 3/4" NPT



Style 65 - Part No.		Finish
1/2" NPT	3/4" NPT	
1150	1184	Brass Plated
1174	1175	Signal White (RAL9003)
1153	1152	Chrome Plated



Style 401 - Part No.			Finish
Cup		Skirt	
1/2" NPT	3/4" NPT		
1194	1195	1199	Brass Plated
1196	1197	1200	Signal White (RAL9003)
1192	1193	1198	Chrome Plated

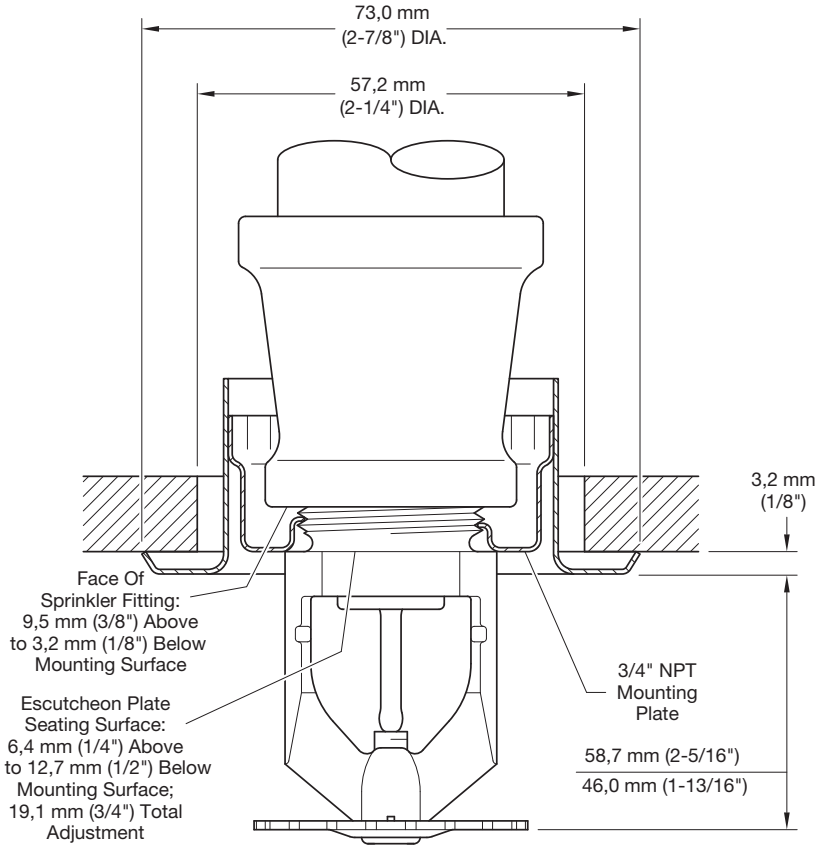
Sprinkler Accessories

Escutcheon Plates

Style 60, Two-Piece Flush Escutcheon

Thread Size	¾" NPT
Approvals	UL- Listed for use with Series EC-11 and EC-14 Pendent Sprinklers FM
Escutcheon Styles	Styles 60
Finishes	Chrome, Signal White, or Brass
Tech Data Sheet	**TFP778**

Used to improve the overall appearance of the sprinkler installation by concealing the clearance holes required for wall or ceiling installation ■ Deep, two-piece, adjustable ■ 19,1mm (¾") total adjustment



Style 60 - Part No. ¾" NPT	Finish
208107	Brass Plated
208104	Signal White (RAL9003)
208102	Chrome Plated

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Sprinkler Head Cabinet

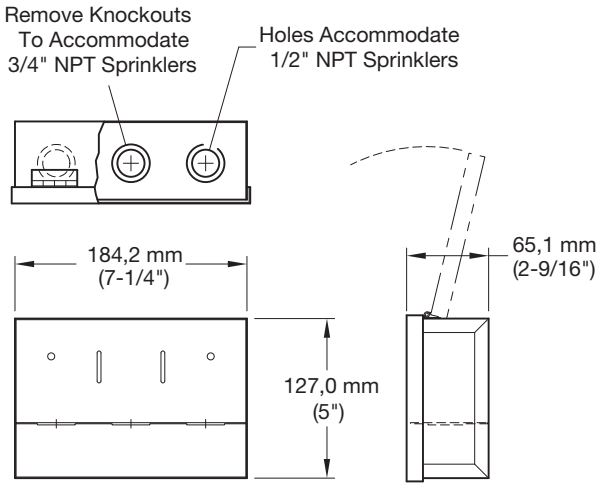
3, 6 or 12 Capacity

Thread Size	1/2" NPT • 3/4" NPT • 1" NPT
Tech Data Sheet	**TFP785**

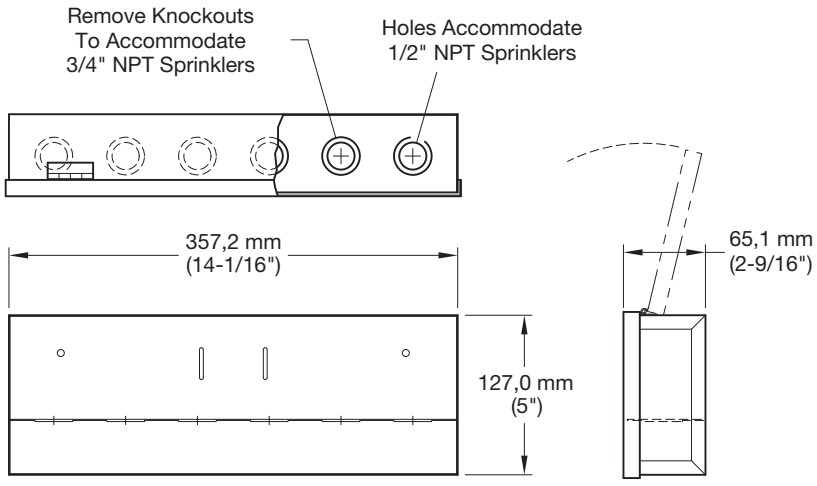
Provides storage for spare sprinklers and sprinkler wrench ■ Spare sprinklers facilitate the prompt replacement of operated or damaged sprinklers and return of fire protection system to service as soon as possible

3 Sprinklers

Part No.	# Sprinkler Heads
1177	3
1119	6
1124	12
1111	6 - ESFR



6 Sprinklers

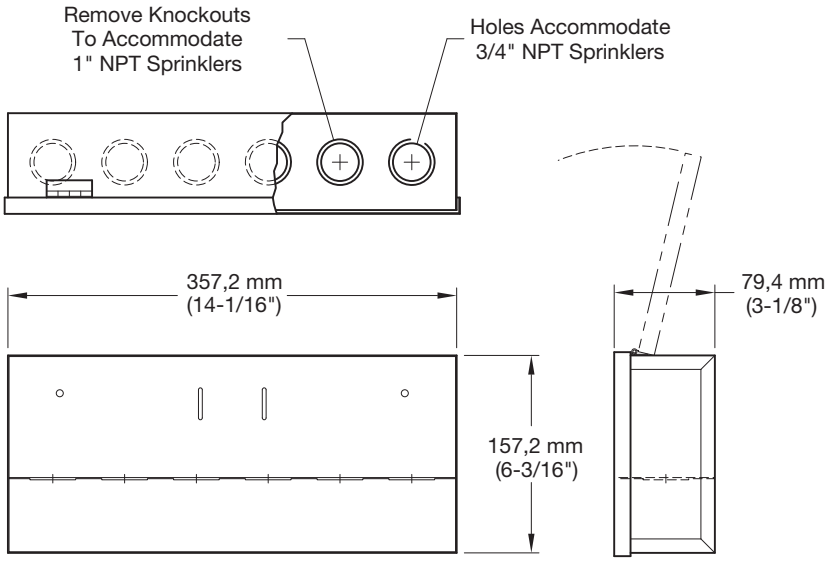


Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

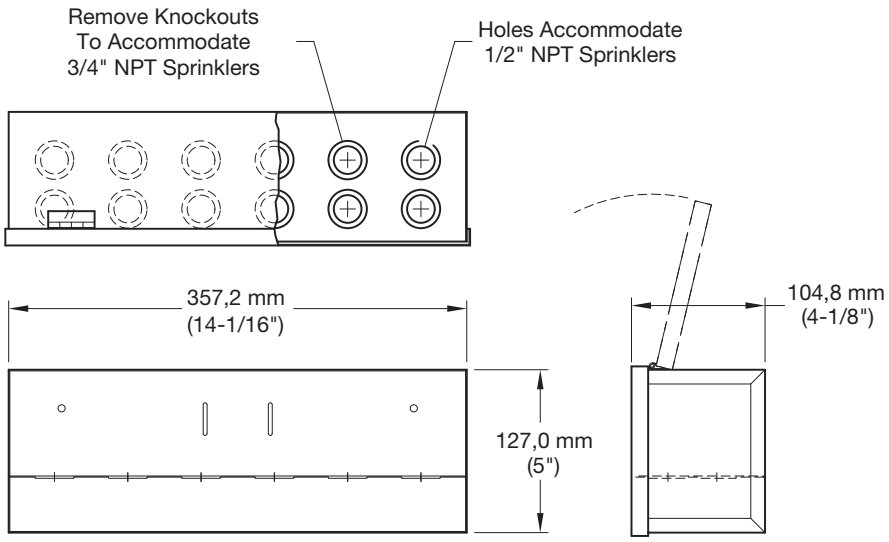
Sprinkler Accessories

Sprinkler Head Cabinet

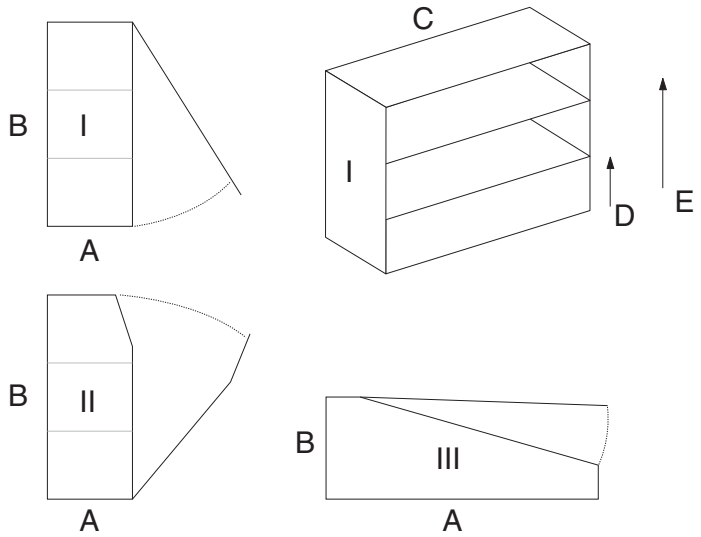
6-ESFR Sprinklers



12 Sprinklers



Sprinkler Head Cabinet



Part No.	Sprinkler		Model	Dimensions (mm)					Finish
	Capacity	Connection		A	B	C	D	E	
240036	36	½", ¾"	I	103	306	358	90	-	Red
SP50001	50	*	III	320	150	470	50	-	Red
240012	12	½", ¾"	I	103	132	363	45	-	Red
240006	6	½", ¾"	I	64	130	355	42	126	Red
240306	6	¾", 1"**	I	80	160	357	46	-	Red
240024	24	½", ¾"	I	103	275	300	90	-	Red

* Non perforated shelf

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

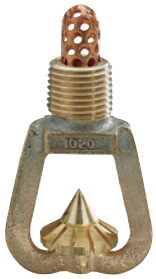
Nozzle & Nozzle Accessories

Designed for use in a variety of special hazard application – may be required to provide a properly designed special hazard fire protection system.

- Flammable Liquid Ranks & Operations
- Flammable Liquid Storage
- Offshore Platforms
- Industrial Process Equipment
- Computer Rooms
- Clean Rooms

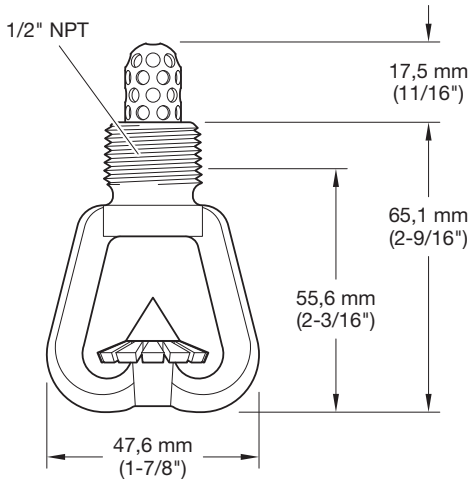
MV

Medium Velocity Nozzle



Thread Size	1/2" NPT
Approvals	UL, FM*, SAS, Ukrainian, Fire Academy of Russia, PAVUS, T/S/U * Titanium is not FM approved
Spray Angles	90°, 95°, 110°, 125°, 140°, and 160°
Nozzle Finish	Stainless Steel, Brass & Leaded Gunmetal LG2, Titanium, or 254 SMO
Wrench Type	Appropriate size adjustable Crescent wrench
Tech Data Sheet	**TFP807**

Nozzles with an orifice smaller than 9.5 mm include a filter. ■ Nozzles can be coated or made in special material on request. ■ Spray patterns are available on request.



MV • 1/2" NPT													
K-Factors		MV10	MV12	MV15	MV18	MV19	MV21	MV25	MV26	MV30	MV34	MV47	MV57
Ø	mm	5.1	5.4	6.3	6.8	7.1	7.7	8.3	8.8	9	9.6	11.2	12.6
Ø	inch	0.2	0.21	0.25	0.27	0.28	0.31	0.33	0.35	0.36	0.38	0.44	0.5
K	Metric	15.9	18	23.8	28	30.2	34	38.2	42	50	58.8	80	99.5
K	USA	1.1	1.25	1.65	1.94	2.09	2.36	2.65	2.91	3.47	4.07	5.54	6.9

MV • 1/2" NPT														
Model No.	Brass and Leaded Gunmetal LG2 Part No.						Approvals & Listings						
	90°	95°	110°	125°	140°	160°	UL	FM	SAS	Ukrainian	PAVUS	T/S/U	Fire Academy of Russia
MV10	AED03829	AEA02524	AEA02533	AEA02542	AEA02551	AEA02560	√	√	√	√	√	√	√
MV12	AED03838	AED03847	AED03856	AED03865	AED03874	AED03883	√	√	√	√	√	√	√
MV15	AED03892	AEA02588	AEA02597	AEA02609	AEA02618	AEA02627	√	√	√	√	√	√	√
MV18	AED03904	AED03913	AED03922	AED03931	AED03940	AED03959	√	√	√	√	√	√	√
MV19	AED03968	AEA02645	AEA02654	AEA02663	AEA02672	AEA02681	√	√	√	√	√	√	√
MV21	AED03977	AED03986	AED03995	AED04004	AED04013	AED04022	√	√	√	√	√	√	√
MV25	AED04031	AEA02702	AEA02711	AEA02720	AEA02739	AEA02748	√	√	√	√	√	√	√
MV26	AED04040	AED04059	AED04068	AED04077	AED04086	AED04095	√	√	√	√	√	√	√
MV30	AED04107	AED04116	AED04125	AED04134	AED04143	AED04152	√	√	√	√	√	√	√
MV34	AED04161	AED00949	AED00958	AED00967	AED00976	AED00985	√	√	√	√	√	√	√
MV47	AED04170	AED01003	AED01012	AED01021	AED01030	AED01049	√	√	√	√	√	√	√
MV57	AED04189	AED01067	AED01076	AED01085	AED01094	AED01106	√	√	√	√	√	√	√

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Nozzles and Accessories

MV - Medium Velocity Nozzle

MV · ½" NPT													
Model No.	Stainless Steel Type 316 Part No.						Approvals & Listings						
	90°	95°	110°	125°	140°	160°	UL	FM	SAS	Ukrainian	PAVUS	T/S/U	Fire Academy of Russia
MV10	AED07063	AED00024	AED00033	AED00042	AED00051	AED02560	√	√	√	√	√	√	√
MV12	AED07612	AED07621	AED07630	AED07649	AED07658	AED07667	√	√	√	√	√	√	√
MV15	AED07676	AED00088	AED00097	AED00109	AED00118	AED00127	√	√	√	√	√	√	√
MV18	AED07685	AED07694	AED07706	AED07715	AED07724	AED07733	√	√	√	√	√	√	√
MV19	AED07742	AED00145	AED00154	AED00163	AED00172	AED00181	√	√	√	√	√	√	√
MV21	AED07760	AED07779	AED07788	AED07797	AED07809	AED07818	√	√	√	√	√	√	√
MV25	AED07751	AED00202	AEA00211	AED00220	AEA00239	AEA00248	√	√	√	√	√	√	√
MV26	AED07827	AED07836	AED07845	AED07854	AED07863	AED07872	√	√	√	√	√	√	√
MV30	AED07881	AED07890	AED07902	AED07911	AED07920	AED07939	√	√	√	√	√	√	√
MV34	AED07948	AED01218	AED01227	AED01236	AED01245	AED01254	√	√	√	√	√	√	√
MV47	AED07957	AED01272	AED01281	AED01290	AED01302	AED01311	√	√	√	√	√	√	√
MV57	AED07966	AED01339	AED01348	AED01357	AED01366	AED01375	√	√	√	√	√	√	√

MV · ½" NPT												
Model No.	Titanium Part No.						Approvals & Listings					
	90°	95°	110°	125°	140°	160°	UL	SAS	Ukrainian	PAVUS	T/S/U	Fire Academy of Russia
MV10	AED07603T	AEA00024T	AED00033T	AEA00042T	AEA00051T	AEA02560T	√	√	√	√	√	√
MV12	AED07612T	AED07621T	AED07630T	AED07649T	AED07658T	AED07667T	√	√	√	√	√	√
MV15	AED07676T	AEA00088T	AED00097T	AED00109T	AEA00118T	AEA00127T	√	√	√	√	√	√
MV18	AED07685T	AED07694T	AED07706T	AED07715T	AED07724T	AED07733T	√	√	√	√	√	√
MV19	AED07742T	AEA00145T	AED00154T	AED00163T	AEA00172T	AED00181T	√	√	√	√	√	√
MV21	AED07760T	AED07779T	AED07788T	AED07797T	AED07809T	AED07818T	√	√	√	√	√	√
MV25	AED07751T	AEA00202T	AEA00211T	AED00220T	AEA00239T	AEA00248T	√	√	√	√	√	√
MV26	AED07827T	AED07836T	AED07845T	AED07854T	AED07863T	AED07872T	√	√	√	√	√	√
MV30	AED07881T	AED07890T	AED07902T	AED07911T	AED07920T	AED07939T	√	√	√	√	√	√
MV34	AED07948T	AED01218T	AED01227T	AED01236T	AED01245T	AED01254T	√	√	√	√	√	√
MV47	AED07957T	AED01272T	AED01281T	AED01290T	AED01302T	AED01311T	√	√	√	√	√	√
MV57	AED07966T	AED01339T	AED01348T	AED01357T	AED01366T	AED01375T	√	√	√	√	√	√

MV · ½" NPT													
Model No.	254 SMO Part No.						Approvals & Listings						
	90°	95°	110°	125°	140°	160°	UL	FM	SAS	Ukrainian	PAVUS	T/S/U	Fire Academy of Russia
MV10	AED07603SMO	AED00024SMO	AED00033SMO	AED00042SMO	AED00051SMO	AED02560SMO	√	√	√	√	√	√	√
MV12	AED07612SMO	AED07621SMO	AED07630SMO	AED07649SMO	AED07658SMO	AED07667SMO	√	√	√	√	√	√	√
MV15	AED07676SMO	AED00088SMO	AED00097SMO	AED00109SMO	AED00118SMO	AED00127SMO	√	√	√	√	√	√	√
MV18	AED07685SMO	AED07694SMO	AED07706SMO	AED07715SMO	AED07724SMO	AED07733SMO	√	√	√	√	√	√	√
MV19	AED07742SMO	AED00145SMO	AED00154SMO	AED00163SMO	AED00172SMO	AED00181SMO	√	√	√	√	√	√	√
MV21	AED07760SMO	AED07779SMO	AED07788SMO	AED07797SMO	AED07809SMO	AED07818SMO	√	√	√	√	√	√	√
MV25	AED07751SMO	AEA00202SMO	AEA00211SMO	AED00220SMO	AEA00239SMO	AEA00248SMO	√	√	√	√	√	√	√
MV26	AED07827SMO	AED07836SMO	AED07845SMO	AED07854SMO	AED07863SMO	AED07872SMO	√	√	√	√	√	√	√
MV30	AED07881SMO	AED07890SMO	AED07902SMO	AED07911SMO	AED07920SMO	AED07939SMO	√	√	√	√	√	√	√
MV34	AED07948SMO	AED01218SMO	AED01227SMO	AED01236SMO	AED01245SMO	AED01254SMO	√	√	√	√	√	√	√
MV47	AED07957SMO	AED01272SMO	AED01281SMO	AED01290SMO	AED01302SMO	AED01311SMO	√	√	√	√	√	√	√
MV57	AED07966SMO	AED01339SMO	AED01348SMO	AED01357SMO	AED01366SMO	AED01375SMO	√	√	√	√	√	√	√

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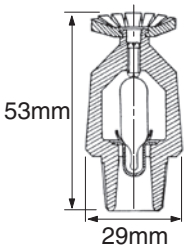
Sealed MV

Medium Velocity Nozzle

K Factor	K= 57 (4.0), K= 80 (5.6)
Thread Size	1/2" NPT
Spray Angles	90°, 95°, 110°, 125°, 140°, and 160°
Temperature	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Nozzle Finish	Bronze: Natural Finish
Wrench Type	W-TYPE 6
Tech Data Sheet	**Contact Tyco Fire Products for more Information**

Nozzles can be coated or made in special material on request. ■ Spray patterns are available on request.



MV47 • K=80 (5.6) • ½" NPT						
Temperature °C	Bronze Part No.					
	90°	95°	110°	125°	140°	160°
57	29396	28402	28408	28414	28420	28426
68	28397	28403	28409	28415	28421	28427
79	28398	28404	28410	28416	28422	28428
93	28399	28405	28411	28417	28423	28429
141	28400	28406	28412	28418	28424	28430
182	28401	28407	28413	28419	28425	28431

Min. 1.4 Bar [20 Psi]

MV434 • K=57 (4.0) • ½" NPT						
Temperature °C	Bronze Part No.					
	90°	95°	110°	125°	140°	160°
57	28432	28438	28444	28450	28450	28462
68	28433	28439	28445	28451	28451	28463
79	28434	28440	28446	28452	28452	28464
93	28435	28441	28447	28453	28453	28465
141	28436	28442	28448	28454	28454	28466
182	28437	28443	28449	28455	28455	28467

Min. 1.4 Bar [20 Psi]

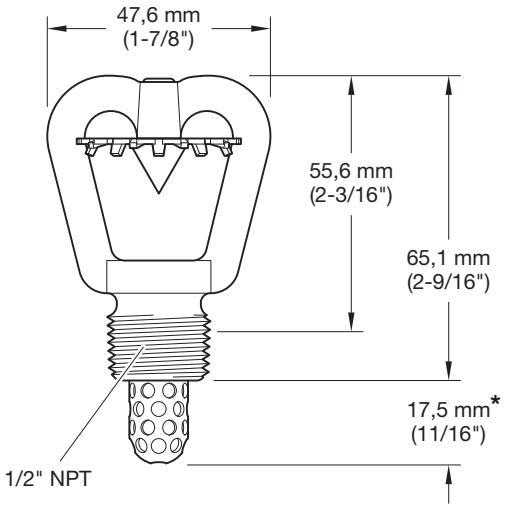
Nozzles and Accessories

MV-T

Tank Top Medium Velocity Nozzle

Thread Size	1/2" NPT
Approvals	UL
Materials	Stainless Steel, Brass & Leaded Gunmetal LG2, Titanium, Aluminium Bronze, SMO254, or Zeron 100
Tech Data Sheet	**TFP809**

Nozzles with an orifice size of 9.5 mm and under are fitted with a strainer.



MV-T • ½" NPT									
Orifice Size	Minimum Diameter mm (Inches)	K-factor LPM/bar½	Part No.						Approvals & Listings
			Stainless Steel	Brass & Leaded Gunmetal LG2	Titanium	Aluminium Bronze	SMO 254	Zeron 100	UL
MV10T	5,15 (0.20)	17,3	28492	28285	28492T	28285AB	28492SMO	28492Z	√
MV12T	5,40 (0.21)	18,7	28493	28281	28493T	28281AB	28493SMO	28493Z	√
MV15T	6,35 (0.25)	25,9	28494	28282	28494T	28282AB	28494SMO	28494Z	√
MV18T	6,80 (0.27)	28,8	28495	28283	28495T	28283AB	28495SMO	28495Z	√
MV19T	7,15 (0.28)	31,7	28496	28286	28496T	28286AB	28496SMO	28496Z	√
MV21T	7,70 (0.30)	36,0	28497	28287	28497T	28287AB	28497SMO	28497Z	√
MV25T	8,35 (0.33)	41,8	28498	28288	28498T	28288AB	28498SMO	28498Z	√
MV26T	8,80 (0.34)	44,6	28499	28289	28499T	28289AB	28499SMO	28499Z	√
MV30T	9,00 (0.35)	49,0	28500	28290	28500T	28290AB	28500SMO	28500Z	√
MV34T	9,60 (0.38)	59,0	28501	28291	28501T	28291AB	28501SMO	28501Z	√
MV47T	11,20 (0.44)	79,2	28502	28292	28502T	28292AB	28502SMO	28502Z	√
MV57T	12,60 (0.50)	100,8	28503	28293	28503T	28293AB	28503SMO	28503Z	√

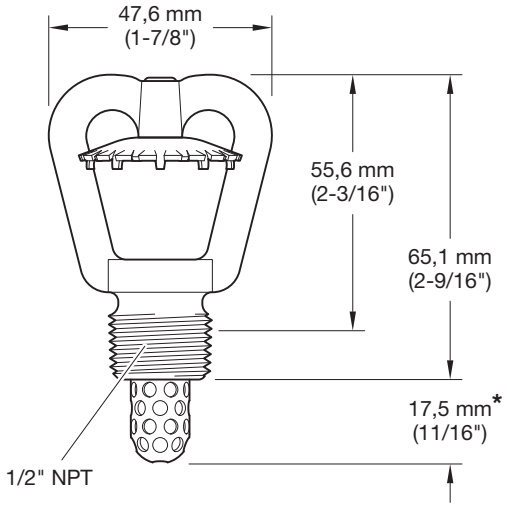
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

MV-R

Reverse Acting Medium Velocity Nozzle

Thread Size	1/2" NPT
Approvals	UL, FM
Nozzle Finish	Stainless Steel, Brass & Leaded Gunmetal LG2, Titanium, Aluminium Bronze, SMO254, or Zeron 100
Tech Data Sheet	**TFP809**

Nozzles can be coated or made in special material on request. ■ Spray patterns are available on request.



MV-R • ½" NPT										
Orifice Size	Minimum Diameter mm (Inches)	K-factor LPM/bar½	Part No.						Approvals & Listings	
			Stainless Steel	Brass & Leaded Gunmetal LG2	Titanium	Aluminium Bronze	SMO 254	Zeron 100	UL	FM
MV10R	5,15 (0.20)	17,3	28480	28383	28480T	28383AB	28480SMO	28480Z	√	√
MV12R	5,40 (0.21)	18,7	28481	28384	28481T	28384AB	28481SMO	28481Z	√	√
MV15R	6,35 (0.25)	25,9	28482	28385	28482T	28385AB	28482SMO	28482Z	√	√
MV18R	6,80 (0.27)	28,8	28483	28386	28483T	28386AB	28483SMO	28483Z	√	√
MV19R	7,15 (0.28)	31,7	28484	28387	28484T	28387AB	28484SMO	28484Z	√	√
MV21R	7,70 (0.30)	36,0	28485	28388	28485T	28388AB	28485SMO	28485Z	√	√
MV25R	8,35 (0.33)	41,8	28486	28389	28486T	28389AB	28486SMO	28486Z	√	√
MV26R	8,80 (0.34)	44,6	28487	28390	28487T	28390AB	28487SMO	28487Z	√	√
MV30R	9,00 (0.35)	49,0	28488	28391	28488T	28391AB	28488SMO	28488Z	√	√
MV34R	9,60 (0.38)	59,0	28489	28392	28489T	28392AB	28489SMO	28489Z	√	√
MV47R	11,20 (0.44)	79,2	28490	28393	28490T	28393AB	28490SMO	28490Z	√	√
MV57R	12,60 (0.50)	100,8	28491	28394	28491T	28394AB	28491SMO	28491Z	√	√

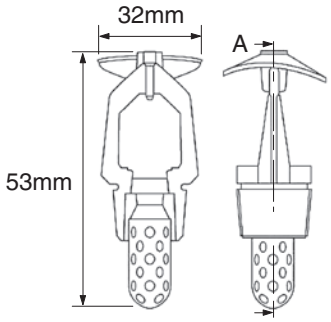
Nozzles and Accessories

Type A

Drencher Nozzle

K Factor	K= 25, K= 43
Thread Size	1/2" NPT
Spray Angles	125°
Nozzle Finish	Bronze: Natural Finish
Tech Data Sheet	**Contact Tyco Fire Products for more Information**

Nozzles can be coated or made in special material on request. ■ Spray patterns are available on request.

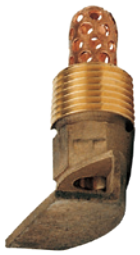


Type A Drencher • ½" NPT				
Temperature °C	Part No. A Ø - 6mm	K Factor	Part No. A Ø - 10mm	K Factor
-	28592	25	28593	43
57° C	28555	25	28560	43
68° C	27007	25	27008	43
79° C	28556	25	27038	43
93° C	28557	25	28561	43
141° C	28558	25	28562	43

Min. 1.4 Bar [20 Psi]

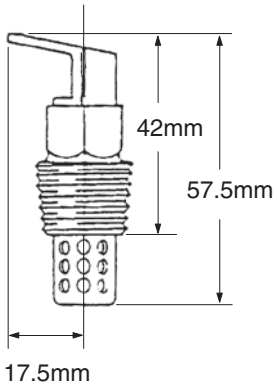
Window

Window Wall Drencher Nozzle



Thread Size	1/2" NPT
Spray Angles	125°
Nozzle Finish	Bronze: Natural Finish
Tech Data Sheet	**Contact Tyco Fire Products for more Information**

Nozzles can be coated or made in special material on request. ■ Spray patterns are available on request.



MV-R • 1/2" NPT		
Model No.	Ø mm	K Factor
26438	6	24
26439	10	40

Min. 1.4 Bar [20 Psi]

Nozzles and Accessories

Issue A & B

Exposure Protection Nozzle

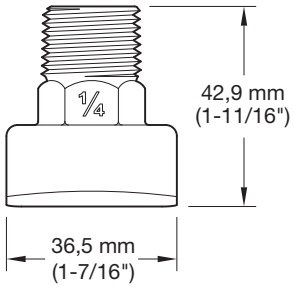
Issue A

Issue B

Thread Size	Issue A: 1/2" NPT Issue B: 1/2" and 3/4" NPT
Approvals	UL, FM
Orifice Size - Issue A	1/4", 5/16", and 3/8"
Orifice Size - Issue B	1/2", 5/8", and 3/4"
Nozzle Finish	Bronze: Natural Finish
Wrench Type	Adjustable Crescent Wrench
Tech Data Sheet	**TFP835**

The Issue A and B Window Type Exposure Protection Sprinklers are intended for spraying water on window glazing at prescibed spacings and sprinkler locations at a minimum discharge pressure of 0,48 bar (7 psi). ■ Exposure (Outside) Protection Sprinklers are utilised to provide protection from exposure fires on the outside of buildings. ■ The smaller orifice Issue A Sprinklers are normally used where exposure is light or moderate, the area of coverage is small, or where one horizontal line of window sprinklers is installed at each floor. ■ The larger orifice Issue B Sprinklers are normally used where exposure is severe, or where one horizontal line of sprinklers is used to protect windows at more than one floor level.

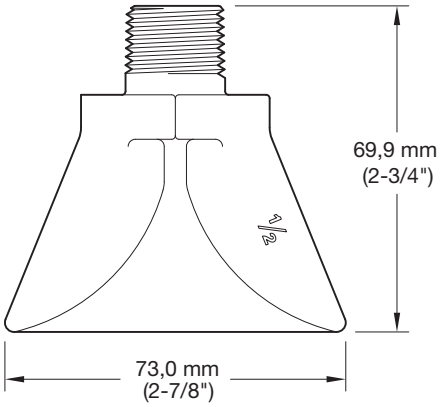
Issue A, 1/2" NPT



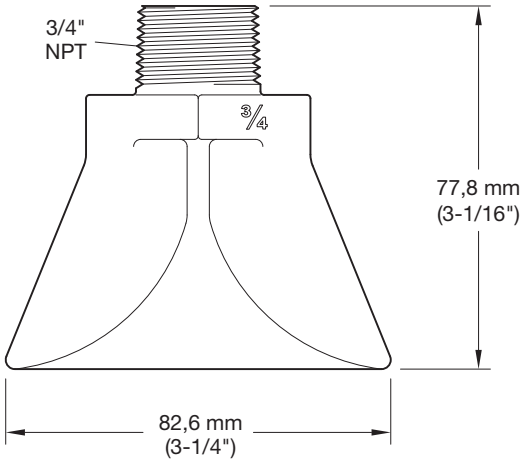
Issue A & B · 1/2" NPT						
Model No.	Part No.	Orifice Size	K Factor		Approvals & Listings	
			LPM	GPM	UL	FM
Issue A	492001001	1/4"	26,33	1.83	√	√
	492001002	5/16"	37,72	2.62	√	√
	492001003	3/8"	58,73	4.08	√	√
Issue B	492011004	1/2"	82,93	5.76	√	√
	492011005	5/8"	124,39	8.64	√	√
	492011006	3/4"	178,39	12.39	√	√

Min. 1.4 Bar [20 psi]

Issue B, 1/2" NPT



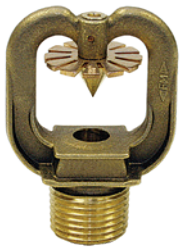
Issue B, 3/4" NPT



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

D3

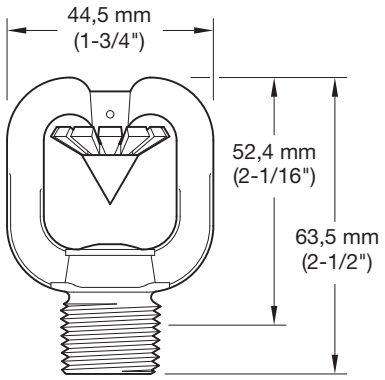
Protectospray Directional Spray Nozzle



K Factor	K= 17,3 to 103,7 (1.2 to 7.2)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Nozzle Finish	Bronze: Natural Finish, Teflon Coated, Lead Coated, Chrome, or Natural Stainless Steel
Wrench Type	W-Type 11
Tech Data Sheet	**TFP802, Blow-off Plugs TFP890**

Designed for use in water spray fixed systems for fire protection applications ■ Open orifice type for use in deluge systems ■ Nozzles are external deflector types that discharge a uniformly filled cone of medium velocity water droplets ■ Blow-Off Plugs are available and designed for both indoor or outdoor use.

D3, 1/2" NPT



D3 • 1/2" NPT • TFP802									
Part No.	Ø Minimum Diameter		K-Factor		Approvals & Listings				
	mm	In.	LPM	GPM	FM	CNBOP	Fire Academy of Russia	TSU	UL
No. 16	5.16	0.203	17.3	1.2	√	√	√	√	√
No. 18	6.35	0.250	25.9	1.8	√	√	√	√	√
No. 21	7.14	0.281	33.1	2.3	√	√	√	√	√
No. 24	8.33	0.328	43.2	3.0	√	√	√	√	√
No. 28	9.53	0.375	59.0	4.1	√	√	√	√	√
No. 32	11.13	0.438	80.6	5.6	√	√	√	√	√
No. 34	12.7	0.500	103.7	7.2	√	√	√	√	√

P/N* 49 — 3XX — X — XXX

ORIFICE SIZE	
16	NO. 16
18	NO. 18
21	NO. 21
24	NO. 24
28	NO. 28
32	NO. 32
34	NO. 34

* Use Suffix "I" for the ISO 7-1 connection; for example, 49-321-1-110-I

FINISH & MATERIAL	
1	NATURAL FINISH BRONZE
4	TEFLON COATED BRONZE
7	LEAD COATED BRONZE
9	CHROME PLATED BRONZE
0	NATURAL FINISH STAINLESS STEEL

SPRAY ANGLE	
065	65°
080	80°
095	95°
110	110°
125	125°
140	140°
160	160°
180	180°

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Nozzles and Accessories

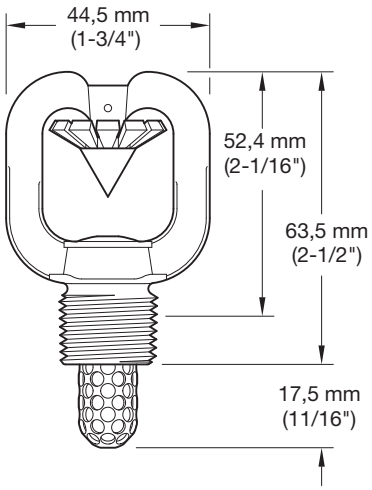
D3S

Protectospray Directional Spray Nozzle

K Factor	K= 15,8 to 40,3 (1.1 to 2.8)
Thread Size	½" NPT
Approvals	UL, C-UL, FM
Nozzle Finish	Bronze, Chrome Plated, or Stainless Steel
Wrench Type	W-Type 11
Tech Data Sheet	**TFP804**

The D3S Nozzles that are typically used in non-NFPA installations feature an integral strainer for use when the Authority Having Jurisdiction requires the use of individual strainers ■ The D3S Nozzles are external deflector type nozzles that discharge a uniformly filled cone of medium velocity water droplets.

D3S, ½" NPT



D3S · ½" NPT · TFP804						
Part No.	Ø Minimum Diameter		K-Factor		Approvals & Listings	
	mm	In.	LPM/bar½	GPM/psi½	FM	UL
No. 16	5.16	0.203	15,8	1.1	√	√
No. 18	6.35	0.250	23,0	1.6	√	√
No. 21	7.14	0.281	30,2	2.1	√	√
No. 24	8.33	0.328	40,3	2.8	√	√

P/N 49 – 5XX – X – XXX

Orifice Size	
16	No. 16
18	No. 18
21	No. 21
24	No. 24

FINISH & MATERIAL	
1	NATURAL FINISH BRONZE
9	CHROME PLATED BRONZE
0	NATURAL FINISH STAINLESS STEEL

Spray Angle	
065	65°
080	80°
095	95°
110	110°
125	125°
140	140°
160	160°
180	180°

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

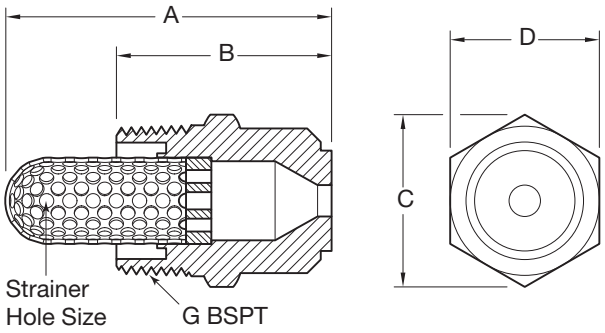
HV "High Velocity"

Directional Spray Nozzle

K Factor	K= 23,0 (1.6) · K= 25,9 (1.8) · K= 41,8 (2.9) · K= 62,0 (4.3) K= 80,7 (5.6) · K= 92,2 (6.4)
Thread Size	1" NPT or 1-1/4"NPT (only K=6.4)
Approvals	UL, C-UL, FM
Nozzle Finish	Natural Brass or Stainless Steel
Wrench Type	Adjustable Crescent Wrench
Tech Data Sheet	**TFP815**

Open, directional spray nozzles ■ Designed for use in fixed water spray fire protection systems where a high velocity water application is needed, such as the protection of flammable liquids, electrical transformers, circuit breakers, oil-fired boilers and lube oil systems ■ Available in six different orifice sizes and six angle spray patterns ■ Produces a solid conical spray pattern

HV · TFP815															
Type	Part No. - NPT		Part No. - ISO 7-1		G BSPT	Strainer Hole Size	K-Factor		Dimensions mm				Approvals & Listings		
	Bronze	Stainless Steel Type 316	Bronze	Stainless Steel Type 316			LPM	GPM	A	B	C	D	SAS	FM	UL
HV14	490141001	490140001	PBP55062	AEC00012	1"	2,4 (3/32")	23,0	1.6	71	47.6	38,1	33,0	√	√	√
HV17	490171001	490170001	PBP55071	AEC00021	1"	2,4 (3/32")	25,9	1.8	72	47.6	38,1	33,0	√	√	√
HV26	490261001	490260001	PBP55080	AEC00030	1"	2,4 (3/32")	41,8	2.9	71.5	47.6	38,1	33,0	√	√	√
HV37	490371001	490370001	PBP55099	AEC00049	1"	3,2 (1/8")	62,0	4.3	75.2	51.6	38,1	33,0	√	√	√
HV45	490451001	490450001	PBP55101	AEC00058	1"	3,2 (1/8")	80,7	5.6	75.6	51.6	38,1	33,0	√	√	√
HV60	490601001	490600001	AEC00236	AEC00263	1-1/4"	3,2 (1/8")	92,2	6.4	15.5	86.5	48,3	41,9	√	√	√



Nozzles and Accessories

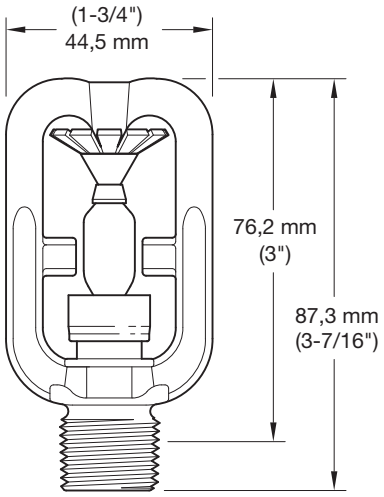
EA-1

Automatic Protectospray Directional Spray Nozzle

K Factor	K= 20,2 (1.4), K= 40,3 (2.8), K= 80,6 (5.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	57°C (135°F), 79°C (175°F), 121°C (250°F), 163°C (325°F), 204°C (400°F), 260°C (500°F)
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Sprinkler Finish	Natural Finish Bronze, Lead Coated Bronze, Chrome Plated, Wax Coated Bronze
Wrench Type	W-TYPE 11
Tech Data Sheet	**TFP800**

Medium velocity, Bulb type frangible element for use in closed head systems ■ Discharges a filled cone of water droplets at relatively low velocity ■ The Type EA-1 Nozzles are also especially effective for area coverage and are sometimes used in lieu of standard sprinklers where directional spray is considered more appropriate.

EA-1, 1/2" NPT



EA-1 · 1/2" NPT · TFP800						
Part No.	Ø Minimum Diameter		K-Factor		Approvals & Listings	
	mm	In.	LPM/bar1/2	GPM/psi1/2	FM	UL
No. 7	6	[1/4]	20.2	[1.4]	√	√
No. 8	10	[3/8]	40.3	[2.8]	√	√
No. 9	15	[1/2]	80.6	[5.6]	√	√

P/N 49 – XXX – X – XXX

K-FACTOR	
7	K = 1.4
8	K = 2.8
9	K = 5.6

SPRAY ANGLE	
65	65°
80	80°
95	95°
10	110°
25	125°
40	140°
60	160°
81	180°

FINISH and MATERIAL	
1	NATURAL FINISH BRONZE
6	WAX COATED BRONZE 135°F to 175°F ONLY
7	LEAD COATED BRONZE 135°F to 325°F ONLY
9	CHROME PLATED BRONZE

TEMPERATURE RATING (ALL FINISHES)	
135	135°F (57°C)
175	175°F (79°C)
250	250°F (121°C)
325	325°F (163°C)

TEMPERATURE RATING (NATURAL FINISH BRONZE ONLY)	
400	400°F (204°C)
500	500°F (260°C)

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

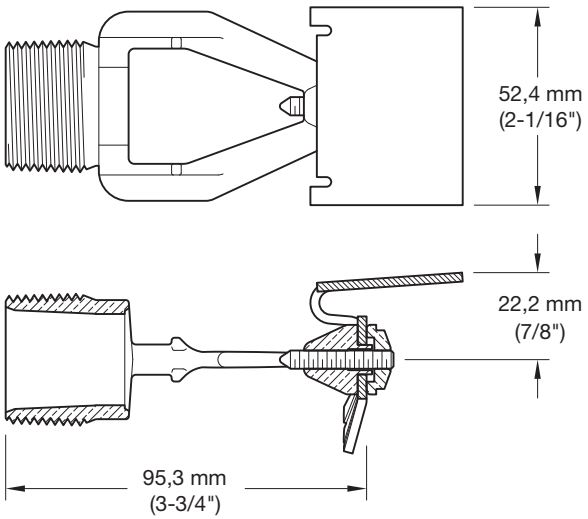
TN-25

Horizontal Spray Nozzle, Open

K Factor	K= 363 (25.2)
Thread Size	1" NPT or ISO 7-R 1
Approvals	UL, C-UL
Nozzle Finish	Natural Brass
Wrench Type	W-Type 1
Tech Data Sheet	**TFP850**

The TYCO Model TN-25 Horizontal Spray Nozzle is a specialised open nozzle for use in tunnel fire protection deluge systems, providing an improved alternative to traditional designs ■ Model TN-25 Nozzle allows for a single pipe to run the length of a tunnel, compared to traditional designs that use multiple pipes in order to provide sufficient coverage.

TN-25, 1" NPT or ISO 7-R 1

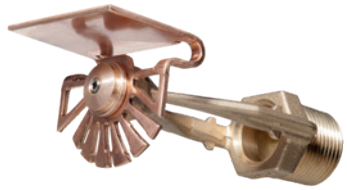


K=363 (25.2) • 1" NPT or ISO 7-R 1 • TFP850			
Part No.		Finish Code	Approvals & Listings
1" NPT	ISO 7-R 1		UL
490251001	490251002	1	√

Nozzles and Accessories

TN-17

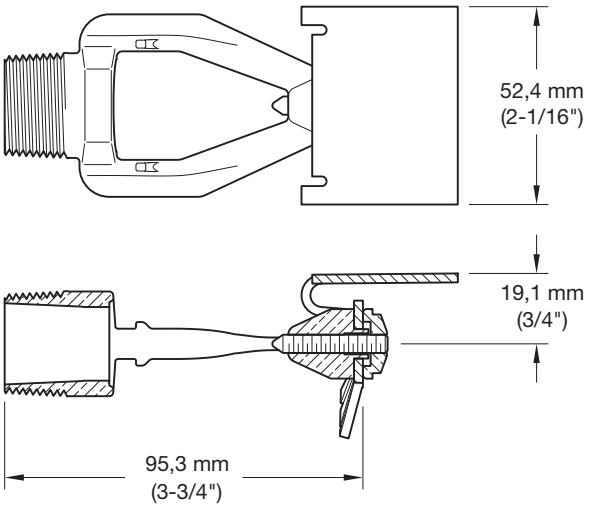
Horizontal Spray Nozzle, Open



K Factor	K= 242 (16.8)
Thread Size	¾" NPT or ISO 7-R ¾
Approvals	UL, C-UL
Nozzle Finish	Natural Brass
Wrench Type	W-Type 21
Tech Data Sheet	**TFP852**

The TYCO Model TN-17 Horizontal Spray Nozzle having a 240 (16.8) K-factor is a specialised open nozzle for use in tunnel fire protection deluge systems, providing an improved alternative to traditional designs ■ With its ability to provide extended coverage, the Model TN-17 Nozzle allows for a single pipe to run the length of a tunnel, compared to traditional designs that use multiple pipes in order to provide sufficient coverage ■ The Model TN-17 Nozzle is an open nozzle designed to be integrated into a deluge fire protection system.

TN-17, ¾" NPT or ISO 7-R ¾



K=242 (16.8) · ¾" NPT or ISO 7-R ¾ · TFP852			
Part No.		Finish Code	Approvals & Listings
¾" NPT	ISO 7-R ¾		UL
490172002	490172001	1	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

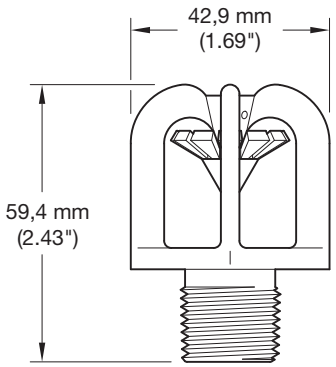
D4a

Directional Spray Nozzles, Open, Medium Velocity

K Factor	K= 17,3 (1.2) · K= 25,9 (1.8) · K= 33,1 (2.3) · K= 43,2 (3.0) K= 59,0 (4.1) · K= 80,6 (5.6) · K= 103,7 (7.2)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Nozzle Finish	Natural Finish Bronze, Teflon Coated Bronze
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	**TFP806**

Nozzles are external deflector types that discharge a uniformly filled cone of medium velocity water droplets ■ The Type D4a Nozzles feature a four arm body design that helps assist against mechanical or physical damage ■ Open orifice design type for use in deluge systems

D4a, ½" NPT



D4a · ½" NPT · TFP806					
Part No.	Ø Minimum Diameter		K-Factor		Approvals & Listings
	In.	mm	LPM/bar½	GPM/psi½	UL
NO. 16	0.203"	5,16 mm	1.2	17,3	√
NO. 18	0.250"	6,35 mm	1.8	25,9	√
NO. 21	0.281"	7,14 mm	2.3	33,1	√
NO. 24	0.328"	8,33 mm	3.0	43,2	√
NO. 28	0.375"	9,53 mm	4.1	59,0	√
NO. 32	0.438"	11,13 mm	5.6	80,6	√
NO. 34	0.500"	12,70 mm	7.2	103,7	√

P/N 49 – 4XX – X – XXX

ORIFICE SIZE	
16	No. 16
18	No. 18
21	No. 21
24	No. 24
28	No. 28
32	No. 32
34	No. 34

FINISH & MATERIAL	
1	Natural Finish Bronze
4	TEFLON Coated Bronze

SPRAY ANGLE	
065	65°
080	80°
095	95°
110	110°
125	125°
140	140°
160	160°
180	180°

Nozzles and Accessories

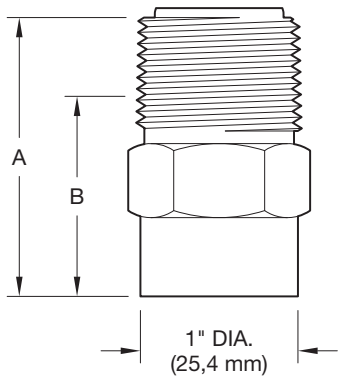
F822 thru F834 Mulsifyre®

Directional Spray Nozzles, Open, High Velocity

K Factor	K= 28,8 (2.0) · K= 33,1 (2.3) · K= 38,9 (2.7) K= 37,4 (2.6) · K= 66,2 (4.6) · K= 73,4 (5.1)
Thread Size	¾" NPT
Approvals	UL, ULC
Nozzle Finish	Brass
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	**TFP810**

Two configurations: basic Mulsifyre Nozzle & Mulsifyre Nozzle with Model F880 Dust Cap, ■ Available in six different models provide a wide range of orifice sizes and water distribution characteristics ■ Air aspirating foam-water nozzles, for use with all types of foam (required for Non-AFFF type foams) ■ Designed for use in water spray fixed systems for fire protection applications where a high velocity water application may be required, Pendent & upright designs, Open nozzle for use on deluge systems.

F822 - F834, ¾" NPT



¾" NPT · TFP810							
Model No.	Part Number.		K-Factor		Dimensions mm		Approvals & Listings
	Mulsifyre Nozzle	Mulsifyre Nozzle with Dust Cap	NFPA	ISO/SI	A	B	UL
F822	498001822	498011822	2.0	28,8	42	28,6	√
F824	498001824	498011824	2.3	33,1	42	28,6	√
F826	498001826	498011826	2.6	37,4	42	28,6	√
F828	498001828	498011828	2.7	38,9	43	30,2	√
F832	498001832	498011832	4.6	66,2	47	33,3	√
F834	498001834	498011834	5.1	73,4	70	57,2	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

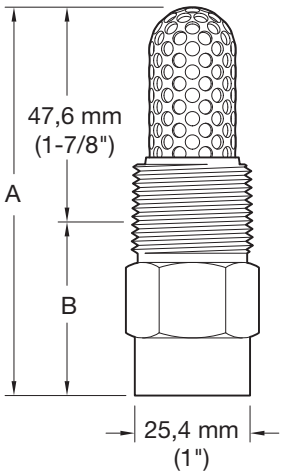
F822S thru F834S Mulsifyre®

Directional Spray Nozzles, Open, With Strainers, High Velocity

K Factor	See Chart Below
Thread Size	¾" NPT
Approvals	FM
Nozzle Finish	Brass
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	**TFP811**

Two configurations: basic Mulsifyre Nozzle & Mulsifyre Nozzle with Model F880 Dust Cap, ■ Available in six different models provide a wide range of orifice sizes and water distribution characteristics ■ Air aspirating foam-water nozzles, for use with all types of foam (required for Non-AFFF type foams) ■ Designed for use in water spray fixed systems for fire protection applications where a high velocity water application may be required, Pendent & upright designs, Open nozzle for use on deluge systems.

F822S - F834S, ¾" NPT



¾" NPT · TFP811									
Model No.	Part No.	Nominal Spray Angle	K-Factor ISO lpm/bar$^{1/2}$		K-Factor gpm/psi$^{1/2}$		Dimensions mm		Approvals & Listings
	Mulsifyre Nozzle		1,70-4,1 bar	4,2-12,0 bar	25-60 psi	61-175 psi	A	B	FM
F822	498101822	80°	28,8	27,4	2.0	1.9	79,4	33,3	√
F824	498101824	70°	34,6	33,1	2.4	2.3[b]	79,4	33,3	√
F826	498101826	125°	37,4	36,0	2.6[a]	2.5	79,4	33,3	√
F828	498101828	70°	38,9	36,0	2.7	2.5	82,6	34,9	√
F832	498101832	90°	66,2	60,5	4.6	4.2	85,7	38,1	√
F834	498101834	70°	67,7	60,5	4.7	4.2	109,5	61,9	√

Nominal range of K-factors is ± 5% except where noted:
a. Add ± 1%
b. Add ± 2%

Nozzles and Accessories

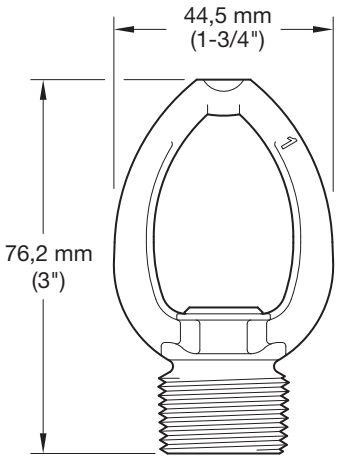
Cooling Tower Nozzle

Type 1 and 2

K Factor	K= 42,0 (2.9)
Thread Size	¾" NPT
Approvals	UL, FM
Nozzle Finish	Bronze or Stainless Steel
Wrench Type	W-Type 11
Tech Data Sheet	**TFP830**

Intended for use in fire protection systems for cross flow cooling towers with combustible fill sections ■ Open nozzle design for use in water spray deluge system ■ Installed under the distribution basin, they discharge water in a relatively narrow, elongated spray pattern ■ Type 1 has a waterway designed for use in towers with diffusion decks, Type 2 for those without diffusion decks

Cooling Tower, ¾" NPT



¾" NPT · TFP830				
Model No.	Part No.		Approvals & Listings	
	Bronze	Stainless Steel	FM	UL
Type 1	500811000	500810001	♦	√
Type 2	500821001	500820001	♦	√

√=Both Materials Approved
♦ Bronze Only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

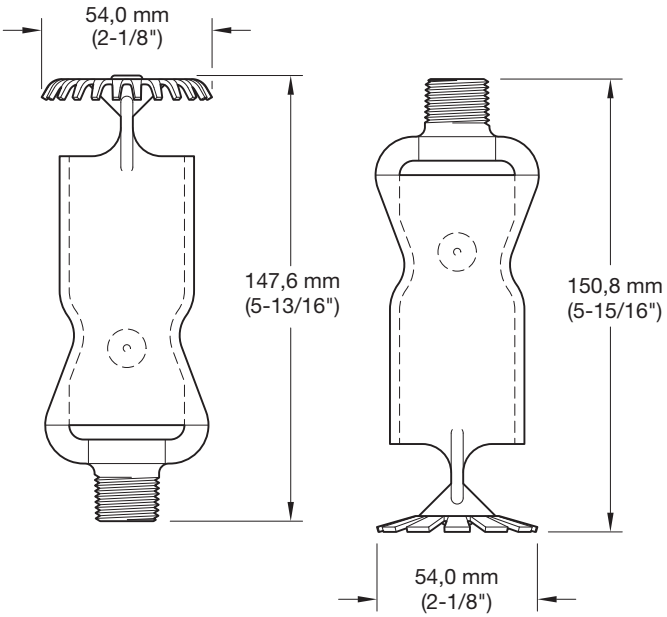
B-1

Upright & Pendent Foam-Water Sprinkler

K Factor	K= 43 (3.0)
Thread Size	1/2" NPT
Approvals	UL, C-UL, Military
Nozzle Finish	Natural Bronze
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	**TFP840**

Air aspirating foam-water nozzles ■ Pendent & upright styles ■ Open nozzle for use in NFPA 16 foam-water sprinkler systems

B-1, ½" NPT



½" NPT · TFP840				
Part No.		Approvals & Listings		
Upright	Pendent	UL	PAVUS	TSU
492101001	492111001	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Nozzles and Accessories

Notes

Watermist System

AquaMist systems are a versatile and highly efficient fire-fighting resource, featuring unique nozzles, which have been designed and rigorously tested to protect against a wide range of fire risks.

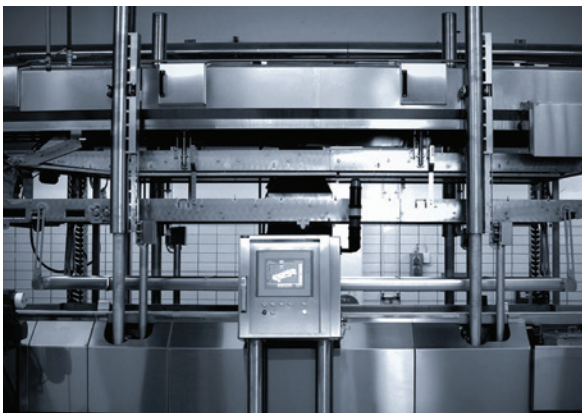
- Hotels
- Hospitals
- Data Center
- Heritage
- Machinery Space
- Turbine
- Cable Tunnel
- Libraries and Archives
- Industrial Fryer Protection (IFP)
- Offices

Watermist System

Aquamist ULF System

Ultra Low Flow

AquaMist ULF



A complete engineered solution including pumps, valves, discharge nozzles, pipes and fittings, all designed to function as one dedicated fire protection system.

The system operates at working pressures of 7 to 12 bar, producing droplets of water through a range of nozzles, specifically engineered and approved for a variety of fire hazards.

AquaMist ULF systems are supplied through authorized partners. The ULF system is suitable for a variety of applications, including machinery protection, data centers, cable tunnels, offices, hotels and industrial fryers.

The AquaMist ULF training modules provide complete design, technical, commercial and life cycle knowledge. Authorized partners are fully supported by our technical services team and all fire suppression products are manufactured to the highest quality.

Benefits of a low pressure Water Mist system include lower water demands, translating into lower pressure losses, smaller diameter pipes and lower installation costs when compared to traditional sprinkler systems. As the system uses only water without additives, it produces no adverse environmental impact.

Benefits:

- Equally as effective as high pressure solutions
- Lower electrical requirements
- No high pressure piping and fittings
- Suitable for stand-alone solutions and installations with limited electricity supply

Droplet Sizes

100-200 µm
ULF

1,000 µm
Sprinkler

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Aquamist FOG System

High Pressure

AquaMist FOG

AquaMist FOG systems reduce the consumption of water and pipe diameters required whilst providing a fast and efficient method of fire protection for class A and B fires.

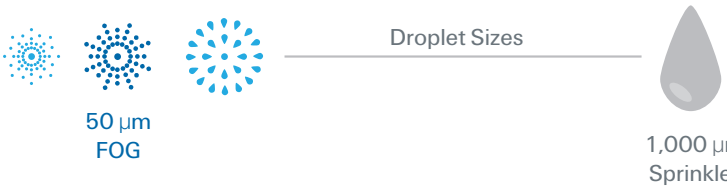
AquaMist FOG provides outstanding fire suppression protection for turbine and transformer rooms, engine test cells, diesel engines and alternators, paint spray booths and mechanical escalators

The system operates at working pressures of 70 to 200 bar to produce droplets of water with small diameters, which discharge at high speeds. For each different protected hazard, optimized nozzles have been developed and tested. AquaMist FOG is based on principles of well-established hydraulic technology. Spray heads are designed to discharge water in the form of Water Mist, with tiny droplets creating a large effective cooling surface area of the fire and surrounding volume. The high speed of the droplets allows the mist to penetrate the hot fumes and reach the combustion area quickly. AquaMist FOG systems are available as either a pre-engineered cylinder system or engineered pumped system, and provide a versatile fire protection solution.

AquaMist FOG systems are one of the best options when piping dimensions or pressure losses are critical, for example in applications such as heritage buildings, libraries and archives, where fragile structures require preserving from water damage.

Benefits:

- Ideal when piping dimensions are a problem
- Ideal when pressure losses are critical
- Quick discharge of Water Mist on combustible areas

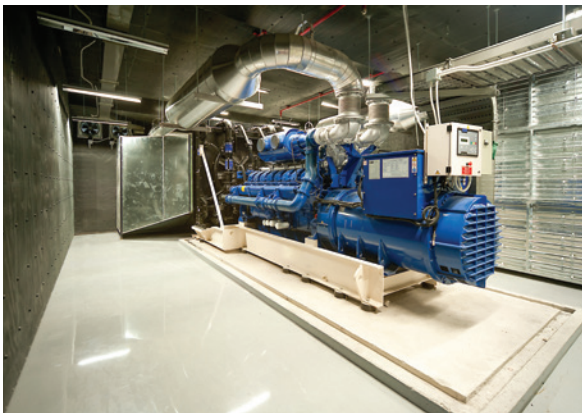


Watermist System

Aquamist Sonic System

Twin Fluid

AquaMist SONIC



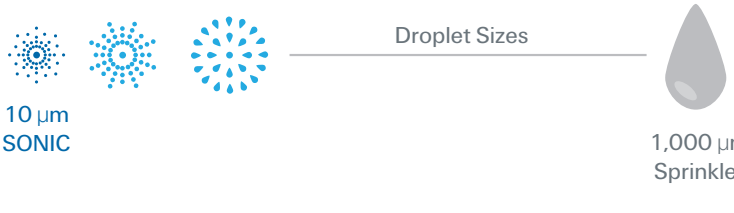
The AquaMist SONIC system is a revolution in Class B fire protection and features 100% machined stainless steel construction for superior strength, no internal moving parts for extreme dependability and multiple mounting options for ease of installation.

The system is fast extinguishing with high-volume, high-velocity discharge which quickly fills spaces. It is also more efficient and uses one-third the water of comparable high pressure systems. As operating pressure is under 8 bar, this proves that one does not need high pressure to generate the smallest droplet sizes. This system is listed and approved for the protection of flammable liquid hazards (FM) and extinguished all fire scenarios in the FM Protocol 5580. It is FM approved for spaces ranging from 4,591 to 36,727 cubic feet (volumes up to 1,040 cubic metres).

This system utilizes non-toxic and readily available extinguishing media (water and nitrogen). The AquaMist SONIC twin-fluid technology is safe for people and is environmentally friendly. It is constructed of industry proven, components including an ASME/ TPED approved stainless steel water storage tank. Capable of automatic detection and actuation and/or remote manual actuation, the system is installed and serviced by authorized distributors. Just two supersonic atomizers create 1.5 trillion superfine water droplets per second, producing a combined surface area of 121 m2 (1302 ft2). This is equivalent to covering the surface of an Olympic-size soccer field in one minute. Additionally, the atomizers propel the droplets at high velocity throughout the combustion zone providing rapid fire knock-down. The atomizer is the key to the effectiveness of the AquaMist Sonic system. Supersonic technology generates a high-velocity, low-pressure zone that draws a thin sheet of water into a primary atomization region. A conical supersonic wave then creates a zone of extreme acceleration and high shear-rate, breaking the sheet into atomized droplets.

Benefits:

- Provides a solution to ventilation
- Facilitates protection of higher height risks
- Can protect highly-obstructed areas
- Protects volumes without the need for power or pump arrangement



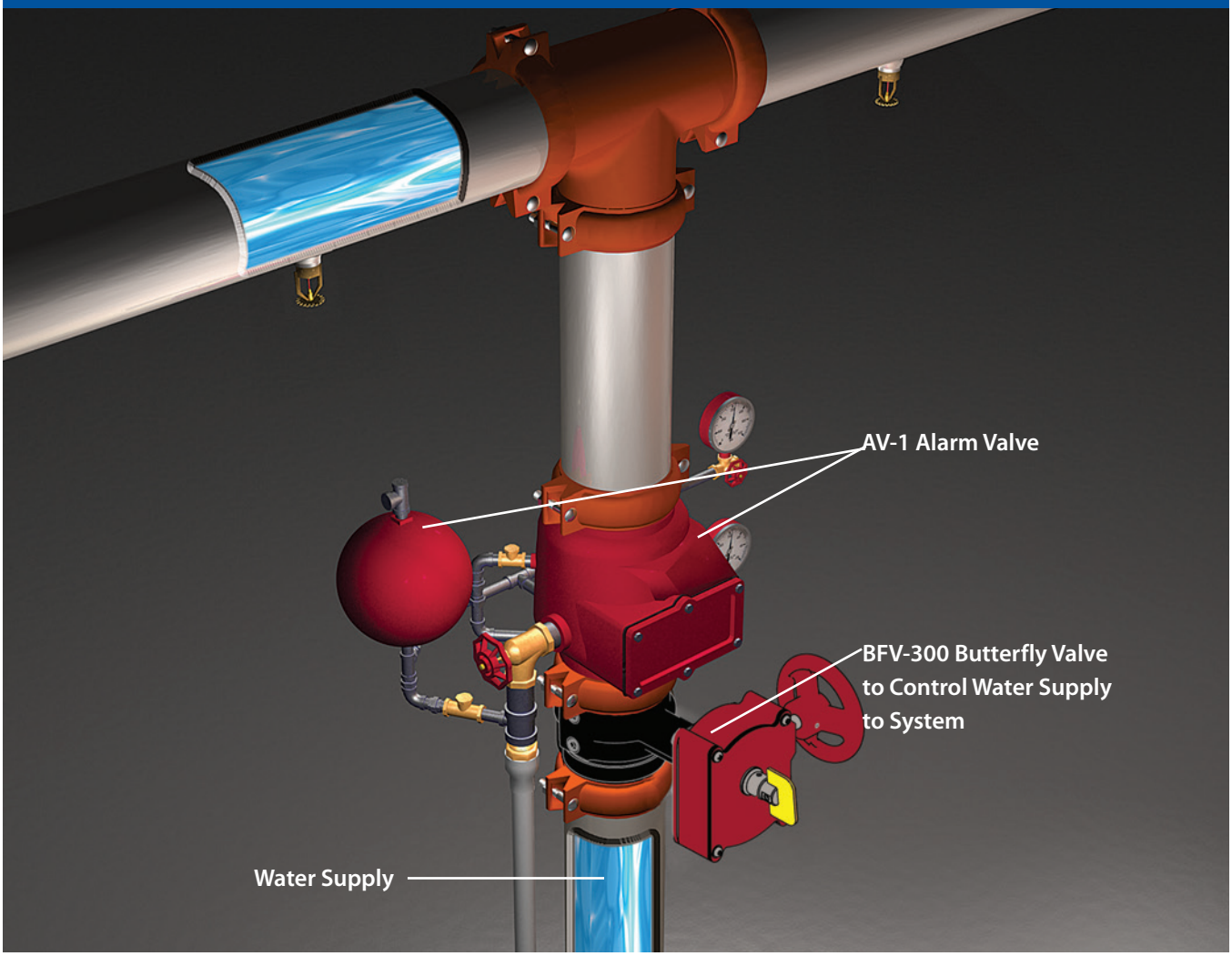
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Wet Pipe Sprinkler Systems

Designed for use in wet pipe sprinkler systems.

- Heated Warehouses
- Factories
- Hospitals
- Shopping Centers
- Apartment or Condominium Complexes
- Single Family Residences

Wet System Valves & Devices



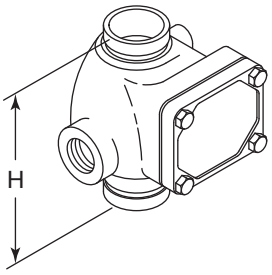
AV-1-300

Alarm Valve

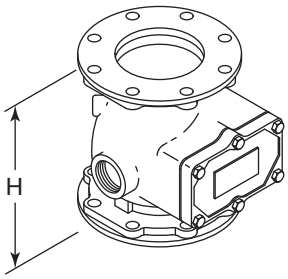
Size Range	DN65 thru DN200 (2½" thru 8")
Approvals	UL, C-UL Listed & FM Approved
Working Water Pressure	1,4 to 20,7 bar (20 to 300 psi)
System	For use in wet pipe (automatic sprinkler) fire protection systems
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP910**

AV-1-300 Alarm Valves may be installed vertically or horizontally ■ Alarm Valves are divided seat ring, rubber-faced clapper, water flow alarm valves ■ Automatically actuates electrically and/or hydraulically operated alarms when there is a steady flow equivalent to the discharge rate for one or more sprinklers ■ Optional Retard Chamber used in installations subject to variable pressure (generally associated with public water supplies) to help prevent false alarms ■ Available pre-assembled with modular trim to provide a quick and convenient method for trimming valve risers. Refer to TFP for details

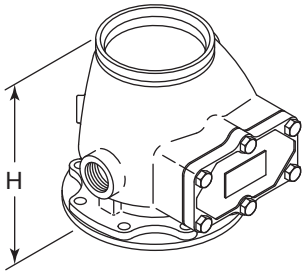
AV-1-300



Groove x Groove (GxG)
Max. 20.7 Bar [300 Psi]



Flange x Flange (FxF)
Max. Pressure depends on Flange Type



Groove x Flange (GxF)
Max. Pressure depends on Flange Type

AV-1-300 Alarm Valve · TFP910													
Part No.	Size		H mm	Ends	Flanges	Drain	Weight kg	Approvals & Listings					
	DN	In.						VdS*	LPCB	CE	FM	UL	VNIIPO
522034120	65 [76,1mm]	2-1/2"	225	G x G	-	1-½"	10	√			√	√	√
522031923	100	4"	260	G x G	-	2" BSP	20.4	√	√	√	√	√	√
522031925	150 [168,3mm]	6"	311	G x G	-	2" BSP	30.9	√	√	√	√	√	√
522031125	150 [165,1mm]	6"	311	G x G	-	2" BSP	30.9	√	√	√	√	√	√
522031926	200	8"	356	G x G	-	2" BSP	58.6	√	√	√	√	√	√
522034113	100	4"	254	F x F	PN 10/16	2" BSP	28.1	√	√	√	√	√	√
522031013	100	4"	254	F x F	ANSI 125	2" NPT	28.1		√	√	√	√	√
522034115	150	6"	305	F x F	PN 10/16	2" BSP	42.2	√	√	√	√	√	√
522031015	150	6"	305	F x F	ANSI 125	2" NPT	42.2		√	√	√	√	√
522034116	200	8"	356	F x F	PN 10	2" BSP	75.8	√	√	√	√	√	√
522034117	200	8"	356	F x F	PN 16	2" BSP	75.8	√	√	√	√	√	√
522031016	200	8"	356	F x F	ANSI 125	2" NPT	75.8		√	√	√	√	√
522031311	65	2-½" [76,1mm]	225	G x F	PN 10/16	1-½" BSP	12.7				√	√	√
522031220	65	2-½" [76,1mm]	225	G x F	ANSI 125	1-½" NPT	12.7				√	√	√
522034213	100	4"	254	G x F	PN 10/16	2" BSP	23.1	√	√	√	√	√	√
522031413	100	4"	254	G x F	ANSI 125	2" BSP	23.1		√	√	√	√	√
522034215	150	6" [168,3mm]	305	G x F	PN 10/16	2" BSP	35.4	√	√	√	√	√	√
522031615	150	6" [168,3mm]	305	G x F	ANSI 125	2" NPT	35.4		√	√	√	√	√
522034216	200	8"	356	G x F	PN 10	2" BSP	67.1	√	√	√	√	√	√
522034226	200	8"	356	G x F	PN 16	2" BSP	67.1	√	√	√	√	√	√
522031816	200	8"	356	G x F	ANSI 125	2" NPT	67.1		√	√	√	√	√

*VdS only in combination with VdS approved Trim

FM Trims Galvanized			
Part No.	Size		Drain
	DN	In.	
522042050	65	2-1/2"	Closed
522042951E	100, 150	4", 6"	Closed
522042952E	200	8"	Closed

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

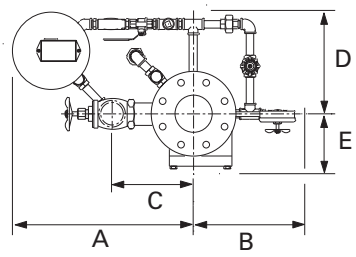
Wet System Valves & Devices

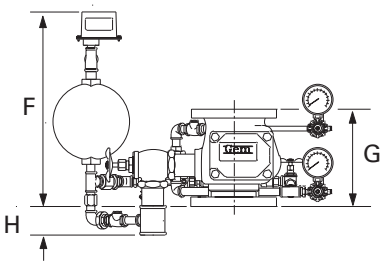
AV-1-300 Wet System Valve Assemblies with FM Trim

Standard Assembly:

Wet Alarm Valve [AV-1-300]
Retarding Chamber [RC-1]
Pressure Alarm Switch [PS10-1]
No Stop Valve *

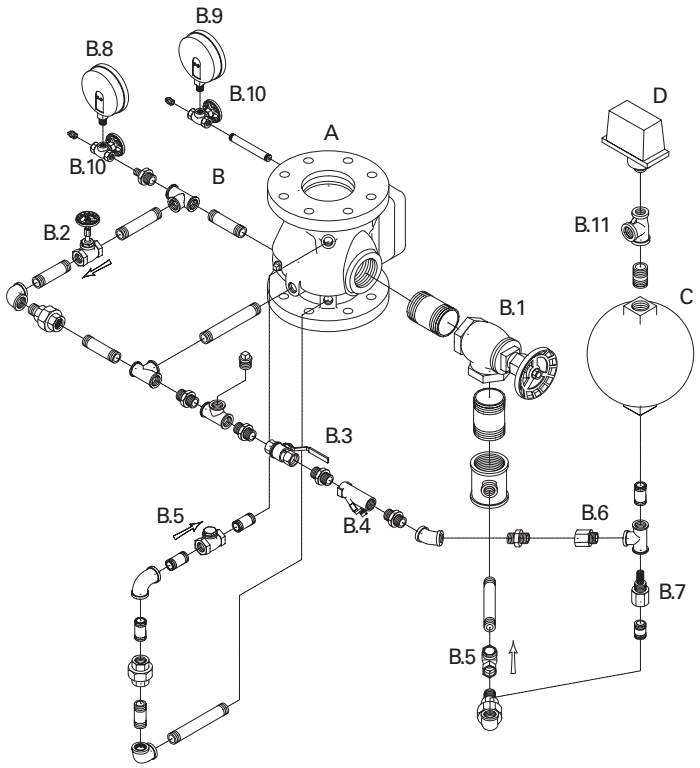
*For Stop Valve see chapter 3, needs to be ordered separately





AV-1-300 Wet System Valve Assembly with FM Trim - TFP910													
Part No.	Size DN		Inlet	Outlet	Dimensions mm								Weight kg
					A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	
1147200101	100 [114,3 mm]	4"	GRV	GRV	500	300	215	280	160	530	254	80	38
1447200101	100	4"	PN 10/16	PN 10/16	500	300	215	280	160	530	254	80	45
1167200101	150 [168,3 mm]	6"	GRV	GRV	520	310	240	300	190	550	305	75	48
1467200101	150	6"	PN 10/16	PN 10/16	520	310	240	300	190	550	305	75	59
1187200101	200 [219,1 mm]	8"	GRV	GRV	520	340	260	340	230	560	356	60	76
1487200101	200	8"	PN10	PN10	520	340	260	340	230	560	356	60	75
1587200101	200	8"	PN 16	PN 16	520	340	260	340	230	560	356	60	93

Other options available on request



Pos.	Description
A	Wet Alarm Valve AV-1-300
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Alarm Test Valve
B.3	Alarm Control Valve
B.4	Strainer
B.5	Swing Check Valve
B.6	5,6 mm Orifice Restriction
B.7	3,2 mm Orifice Restriction
B.8	Supply Pressure Gauge
B.9	System Pressure Gauge
B.10	Gauge Test Valve
B.11	Watermotor Alarm/Vent Trim Connection
C	Retarding Chamber RC-1
D	Pressure Alarm Switch PS10-1

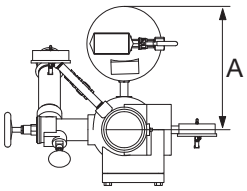
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

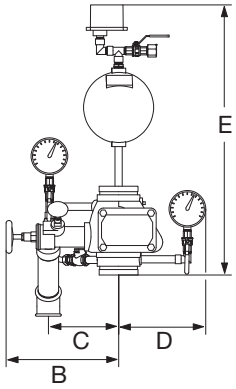
AV-1-300 Wet System Valve Assemblies with CE/FM Trim

Standard Assembly:

Wet Alarm Valve [AV-1-300]
Retarding Chamber [RC-1]
Pressure Alarm Switch [PS10-1]

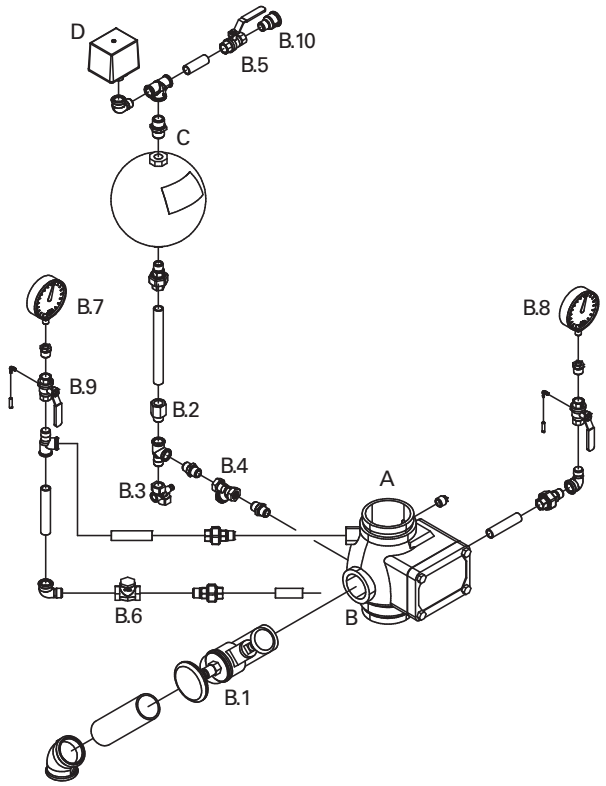
*For Stop Valve see chapter 3, needs to be ordered separately





AV-1-300 Wet System Valve Assembly with CE/FM Trim – TFP990																			
Part No.	DN			Inlet	Outlet	Dimensions mm					Weight kg	Approval Listings							
						A	B	C	D	E		VdS	EN	LPCB	CE	FM	Ukrainian	Belarusian	Fire Academy of Russia
1108900101	65	76,1mm	2-½"	GRV	GRV	310	390	266	320	745	31	√	√	√	√	√	√	√	√
1608900101	65		2-½"	PN 10/16	GRV	310	390	266	320	745	33	√	√	√	√	√	√	√	√
1148900101	100	114,3mm	4"	GRV	GRV	315	340	216	260	760	38	√	√	√	√	√	√	√	√
1648900101	100		4"	PN 10/16	GRV	315	340	216	260	760	41	√	√	√	√	√	√	√	√
1448900101	100		4"	PN 10/16	PN 10/16	315	340	216	260	760	46	√	√	√	√	√	√	√	√
1168900101	150	168,3mm	6"	GRV	GRV	340	360	236	285	770	49	√	√	√	√	√	√	√	√
1668900101	150		6"	PN 10/16	GRV	340	360	236	285	770	54	√	√	√	√	√	√	√	√
1468900101	150		6"	PN 10/16	PN 10/16	340	360	236	285	770	60	√	√	√	√	√	√	√	√
1188900101	200	219,1mm	8"	GRV	GRV	410	390	266	405	770	78	√	√	√	√	√	√	√	√
1688900101	200		8"	PN 16	GRV	410	390	266	405	770	86	√	√	√	√	√	√	√	√
1588900101	200		8"	PN 16	PN 16	410	390	266	405	770	95	√	√	√	√	√	√	√	√

Other options available on request



Pos.	Description
A	Wet Alarm Valve AV-1-300
B	Alarm Valve Trim, including:
B.1	Test & Drain Valve
B.2	3,6 mm Orifice Restriction
B.3	K=5 Orifice Restriction
B.4	Strainer
B.5	Alarm Control Valve
B.6	Swing Check Valve
B.7	System Pressure Gauge
B.8	Supply Pressure Gauge
B.9	Gauge Test Valve
B.10	Watermotor Alarm/Vent Trim Connection
C	Retarding Chamber RC-1
D	Pressure Alarm Switch PS10-1

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

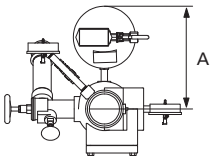
Wet System Valves & Devices

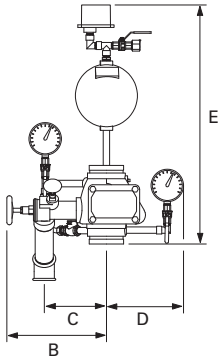
AV-1-300 Supervised Wet System Valve Assemblies with CE/FM Trim

Standard Assembly:

- Wet Alarm Valve [AV-1-300]
- Retarding Chamber [RC-1]
- Pressure Alarm Switch [PS10-1]
- Ball Valve

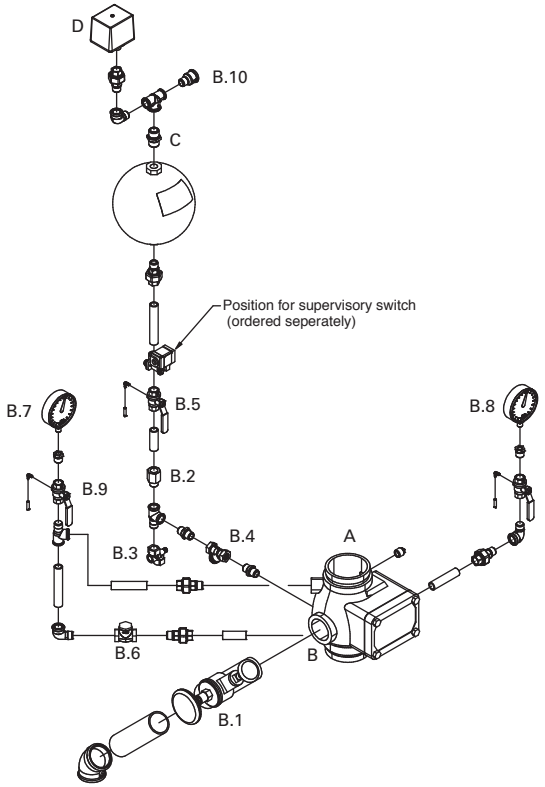
*For Stop Valve see chapter 3, needs to be ordered separately





AV-1-300 Supervised Wet System Valve Assembly with CE/FM Trim - TFP990																			
Part No.	DN			Inlet	Outlet	Dimensions mm					Weight kg	Approval Listings							
						A	B	C	D	E		VdS	EN	LPCB	CE	FM	Ukrainian	Belarusian	Fire Academy of Russia
1108800105	65	76,1mm	2-1/2"	GRV	GRV	315	390	266	320	830	31	√	√	√	√	√	√	√	√
1608800105	65		2-1/2"	PN 10/16	GRV	315	390	266	320	830	33	√	√	√	√	√	√	√	√
1148800105	100	114,3mm	4"	GRV	GRV	315	340	216	260	830	38	√	√	√	√	√	√	√	√
1648800105	100		4"	PN 10/16	GRV	315	340	216	260	830	41	√	√	√	√	√	√	√	√
1448800105	100		4"	PN 10/16	PN 10/16	315	340	216	260	830	46	√	√	√	√	√	√	√	√
1168800105	150	168,3mm	6"	GRV	GRV	340	360	236	280	830	49	√	√	√	√	√	√	√	√
1668800105	150		6"	PN 10/16	GRV	340	360	236	280	830	54	√	√	√	√	√	√	√	√
1468800105	150		6"	PN 10/16	PN 10/16	340	360	236	280	830	60	√	√	√	√	√	√	√	√
1188800105	200	219,1mm	8"	GRV	GRV	410	390	266	400	830	78	√	√	√	√	√	√	√	√
1688800105	200		8"	PN 16	GRV	410	390	266	400	830	86	√	√	√	√	√	√	√	√
1588800105	200		8"	PN 16	PN 16	410	390	266	400	830	95	√	√	√	√	√	√	√	√

Other options available on request



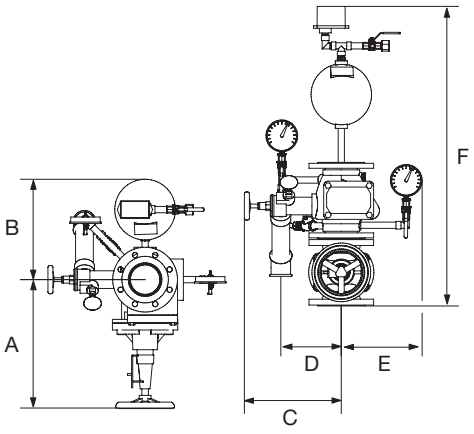
Pos.	Description
A	Wet Alarm Valve AV-1-300
B	Alarm Valve Trim, including:
B.1	Test & Drain Valve
B.2	3,6 mm Orifice Restriction
B.3	K=5 Orifice Restriction
B.4	Strainer
B.5	Alarm Control Valve
B.6	Swing Check Valve
B.7	System Pressure Gauge
B.8	Supply Pressure Gauge
B.9	Gauge Test Valve
B.10	Water Motor Alarm/Vent Trim Connection
C	Retarding Chamber RC-1
D	Pressure Alarm Switch PS10-1

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

AV-1-300 Wet System Valve Assemblies with CE/VdS Trim

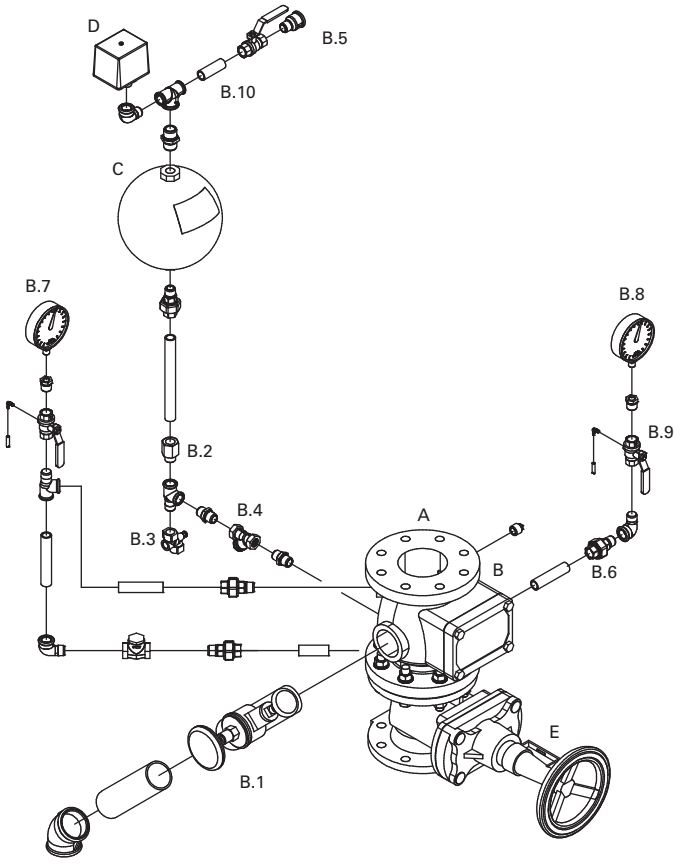
Standard Assembly:

- Wet Alarm Valve [AV-1-300]
- Retarding Chamber [RC-1]
- Pressure Alarm Switch [PS10-1]
- Gate Valve [0547] Not Supervised



AV-1-300 Wet System Valve Assembly with CE/VdS Trim - TFP990																			
Part No.	DN			Inlet	Outlet	Dimensions						Weight kg	Approval Listings						
						A	B	C	D	E	F		VdS	EN	LPCB	CE	Ukrainian	Belarusian	VKF
1608921101	65	76,1mm	2-1/2"	PN10/16	GRV	154	310	390	266	320	745	57	√	√	√	√	√	√	√
1648921101	100	114,3mm	4"	PN10/16	GRV	154	315	340	216	260	760	65	√	√	√	√	√	√	√
1448921101	100		4"	PN10/16	PN10/16	154	315	340	216	260	760	70	√	√	√	√	√	√	√
1668921101	150	168,3mm	6"	PN10/16	GRV	174	340	360	236	285	770	96	√	√	√	√	√	√	√
1468921101	150		6"	PN10/16	PN10/16	174	340	360	236	285	770	103	√	√	√	√	√	√	√
1688921101	200	219,1mm	8"	PN16	GRV	223	410	390	266	405	770	151	√	√	√	√	√	√	√
1488921101	200		8"	PN10	PN10	223	410	390	266	405	770	159	√	√	√	√	√	√	√
1588921101	200		8"	PN16	PN16	223	410	390	266	405	770	159	√	√	√	√	√	√	√

Other options available on request



Pos.	Description
A	Wet Alarm Valve AV-1-300
B	Alarm Valve Trim, including:
B.1	Test & Drain Valve
B.2	3,6 mm Orifice Restriction
B.3	K=5 Orifice Restriction
B.4	Strainer
B.5	Alarm Control Valve
B.6	Swing Check Valve
B.7	System Pressure Gauge
B.8	Supply Pressure Gauge
B.9	Gauge Test Valve
B.10	Water Motor Alarm/Vent Trim Connection
C	Retarding Chamber RC-1
D	Pressure Alarm Switch PS10-1
E	Gate Valve 0547 (for supervised order separately WS00000011)

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

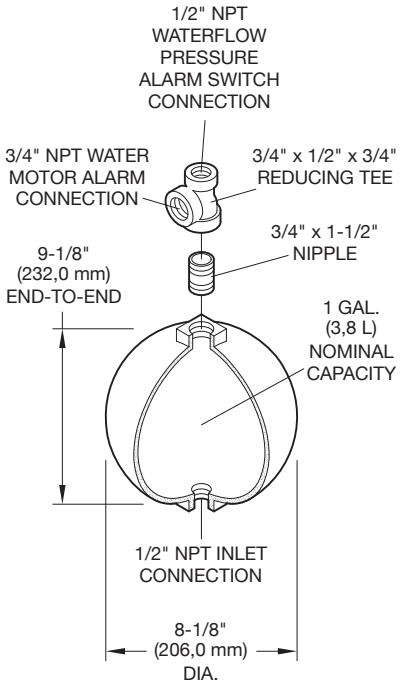
Wet System Valves & Devices

RC-1

Retard Chamber

Approvals	UL, ULC, & FM for use with: Model AV-1-300 Alarm Check Valves UL, ULC, FM, VdS, & LPCB for use with the following Alarm Check Valves: Model AV-1-175, Gem Model F20/F200/F2001, Gem Model A, Star Model S30/S300/S3001
Maximum Working Pressure	20,7 bar (300 psi)
System	For use in a wet type automatic sprinkler system riser
Tech Data Sheet	**TFP920**

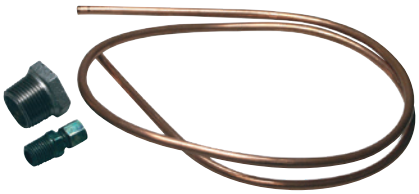
The Model RC-1 Retard Chamber is required in installations that will be subject to pressure variations, as are generally associated with public water supplies, in order to help prevent false alarms

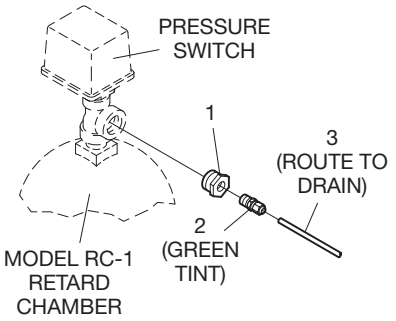


RC-1 Retard Chamber - TFP920		
Part No.	Model	Desc.
52-211-1-002	RC-1	With Galvanized Steel Fittings
52-353-1-005	Accessoires	Y-Strainer
92-210-1-005	Accessoires	Restriction Assembly

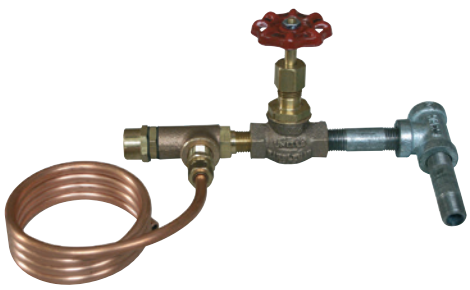
Accessories	
Part No.	Description
522011012E	Vent Trim
522012047	Pressure Relief Trim [12,1 Bar]
522012048	Pressure Relief Trim [12,7 Bar]

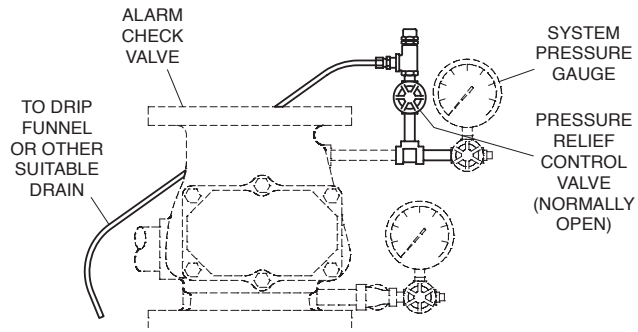
Vent Trim





Pressure Relief Trim





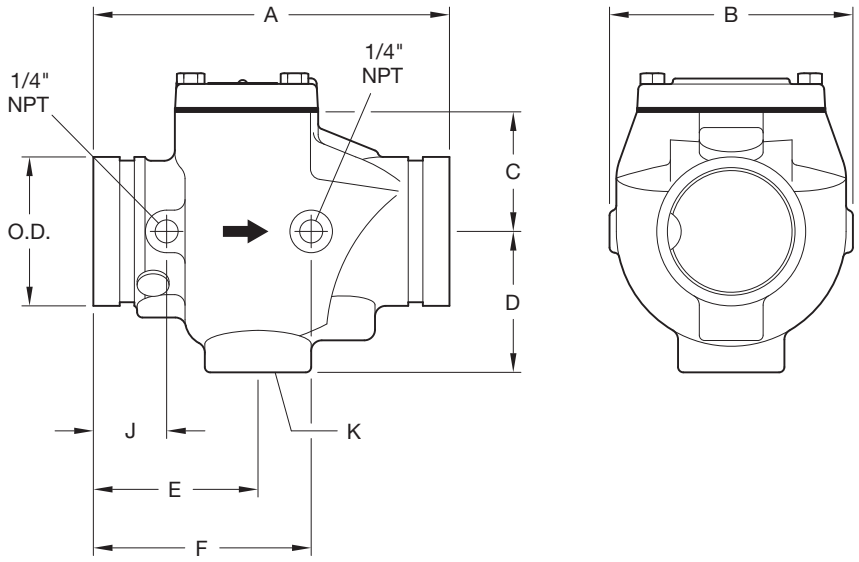
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CV-1FR

Riser Check Valve

Size Range	DN50 thru DN300 (2" thru 12")
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	20,7 bar (300 psi)
System	For use in a wet type automatic sprinkler system riser
End Connection	Groove x Groove
Tech Data Sheet	**TFP950**

Can be installed using GRINNELL Grooved Couplings or GRINNELL Figure 71 Flange Adapters ■ Designed with a removable cover for ease of field maintenance ■ Standard seal is grade "E" EPDM



Model CV-1 FR Riser Check Valve - Grooved - TFP950														
Part No.	DN		Dimensions mm								Weight kg	Approval & Listings		
			A	B	C	D	E	F	J	K NPT (in)		FM	UL	Fire Academy of Russia
595901020	50 [60,3mm]	2"	171,5	111,3	49,8	65,3	82,3	111,0	39,6	1"	4.5	√	√	√
595901025	65 [73,0mm]	2-1/2"	203,2	136,7	66,8	78,5	98,3	130,0	43,9	1-1/4"	4.5	√	√	√
595901076	65 [76,1mm]	-	203,2	136,7	66,8	78,5	98,3	130,0	43,7	1-1/4"	4.5	√	√	√
595901030	80 [88,9mm]	3"	212,6	145,3	71,4	84,1	98,3	130,0	43,7	1-1/4"	5.0	√	√	√
595901040	100[114,3mm]	4"	245,6	169,7	96,5	92,2	115,4	146,8	53,8	2"	11.3	√	√	√
595901139	125 [139,7mm]	5"	266,7	188,0	113,2	104,9	124,5	177,8	53,1	2"	13.2	√	√	√
595901050	125 [141,3mm]	5"	266,7	188,0	113,2	104,9	124,5	177,8	53,1	2"	13.2	√	√	√
595901165	150 [165,1mm]	-	292,1	203,2	117,4	114,3	127,0	184,2	50,8	2"	21.3	√	√	√
595901060	150[168,3mm]	6"	292,1	203,2	117,4	114,3	127,0	184,2	50,8	2"	21.3	√	√	√
595901080	200 [219,1mm]	8"	355,6	257,6	169,4	140,2	138,7	266,7	61,7	2"	30.0	√	√	√
595901100	250 [273,1mm]	10"	457,2	314,5	218,9	162,8	190,5	273,1	85,9	2"	49.4	√	√	√
595901120	300 [323,9mm]	12"	533,4	362,7	252,2	184,7	193,5	254,0	79,5	2"	68.0	√	√	√

FM Trims Galvanized		
Part No.	DN	
595911020	50	2"
595911030	65, 80	2-1/2", 3"
595911080	100, 125, 150, 200	4", 5", 6", 8"

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

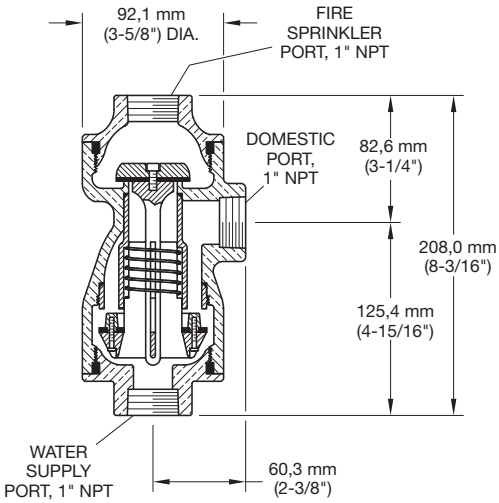
Wet System Valves & Devices

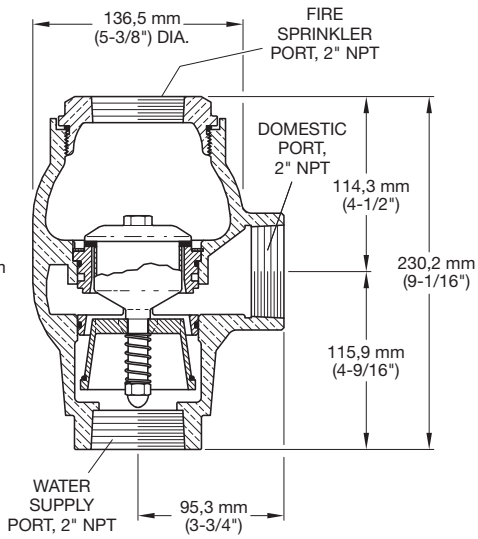
RSV-1

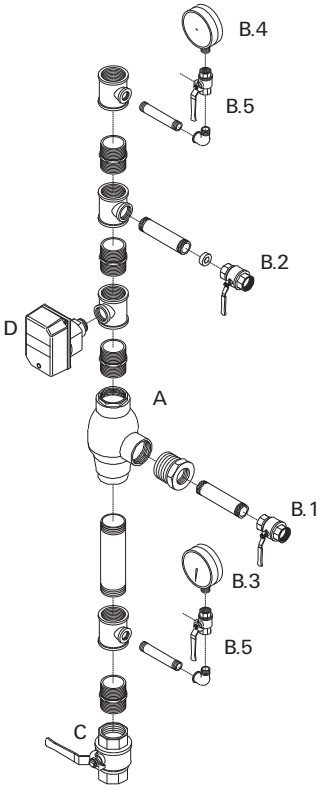
Residential Shut Off Valve

Size Range	NFPA 13D - DN25 (1") NFPA 13R or NFPA 12D - DN50 (2")
Approvals	UL, C-UL, & NSF-61
Maximum Working Pressure	12,1 bar (175 psi)
System	For use in residential sprinkler systems
End Connection	Thread x Thread
Tech Data Sheet	**TFP980**

During the design of a residential sprinkler system, domestic water use should be taken into consideration unless the domestic supply can be stopped when a sprinkler operates ■ When a sprinkler operates, water supply is automatically diverted from the domestic system to the sprinkler system ■ Eliminates the need for pumps, pressurized storage tanks, or electrically operated domestic shutoff valves ■ Valve automatically resets after the fire protection system is returned to normal service







Model RSV-1 Residential Shut-Off Valve - TFP980							
Part No.	Type	DN		Ends		Approval & Listings	
				Inlet	Outlet	FM	UL
52-540-1-001	Residential	25	1"	FPT	FPT	√	√
52-540-1-002	Residential	50	2"	FPT	FPT	√	√

Pos.	Description
A	Shut Off Valve
B	Shut Off Valve Trim:
B.1	Domestic System
B.2	Drain & Test
B.3	Supply Pressure Gauge
B.4	System Pressure Gauge
B.5	Gauge Test Valve
C	Main Control Valve
D	Flow Switch VSR-SF

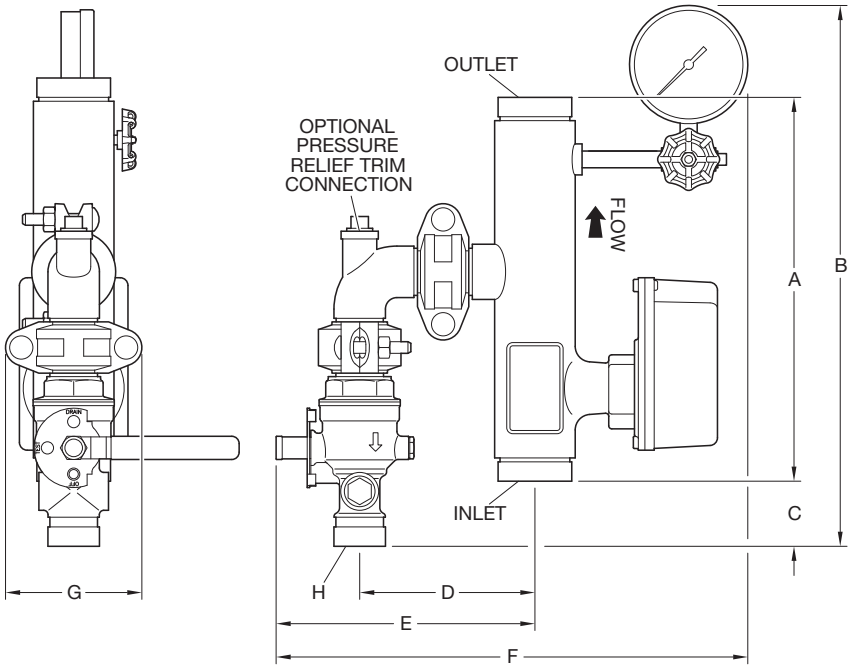
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RM-1

Riser Manifolds

Size Range	NFPA 13 - DN40 thru DN150 (1-1/2" thru 6") NFPA 13D - DN25 (1") NFPA 13R - DN40 thru DN50 (1-1/2" thru 2")
Approvals	UL, C-UL Listed & FM Approved Listed by California State Fire Marshall
Maximum Working Pressure	20,7 bar (300 psi)
System	Commercial (T&D), Residential (ball valve)
End Connection	Thread x Thread, Groove x Groove
Tech Data Sheet	**TFP963**

Riser Manifolds may be installed either horizontally or vertically orientation, for both single sprinkler rises and floor control in high-rises. ■ Optional Pressure Relief Kits feature a 12,1 bar (175 psi) pressure relief valve and trim components for convenient integration into commercial and residential riser manifold assemblies.



Model RM-1 Riser Manifolds, Commercial or Residential - TFP963															
Part No.	Type	DN		Ends		Dimensions mm								Approval & Listings	
				Inlet	Outlet	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	FM	UL
40551	Commercial	40	1-1/2"	MPT	FPT	254	394	57	143	213	381	111	32	√	√
40601	Commercial	50	2"	Groove	Groove	330	457	53	143	213	388	111	32	√	√
40611	Commercial	65	2-1/2"	Groove	Groove	330	460	53	143	213	388	111	32	√	√
40621	Commercial	80	3"	Groove	Groove	330	460	53	150	219	400	111	32	√	√
40651	Commercial	100	4"	Groove	Groove	330	514	108	172	273	467	132	50	√	√
40661	Commercial	150	6"	Groove	Groove	330	514	108	197	300	533	172	50	√	√
40671	Residential	25	1"	FPT	FPT	254	280	na	96	118	257	100	1" npt	√	√
40571	Residential	40	1-1/2"	MPT	FPT	254	337	na	100	121	290	100	1" npt	√	√
40591	Residential	50	2"	Groove	Groove	330	406	na	105	127	300	100	1" npt	√	√

Wet System Valves & Devices

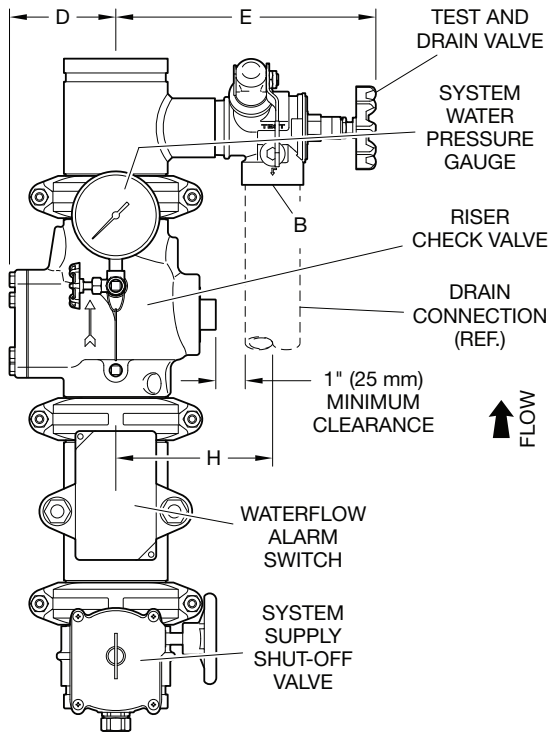
RM-2

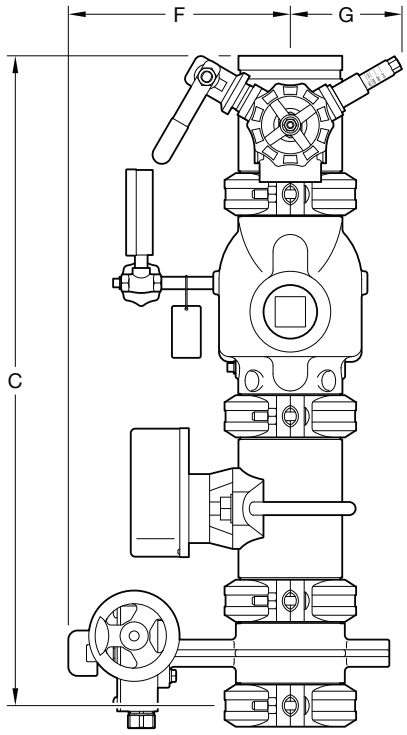
Riser Manifolds

Size Range	DN50 thru DN150 (2" thru 6")
Approvals	UL, C-UL Listed & FM Approved components Listed by California State Fire Marshall
Maximum Working Pressure	20,7 bar (300 psi)
System	For use in commercial sprinkler systems
Test Orifice	DN50 to DN80 (2" to 3") Manifolds: 2.8K DN100 to DN150 (4" to 6") Manifolds: 4.2K
End Connection	Groove x Groove
Tech Data Sheet	**TFP964**

The TYCO Model RM-2 Riser Manifold features the necessary waterflow alarm, pressure gauge, alarm test orifice, drain, sight glass and check valve equipment in a single assembly for use in National Fire Protection Association (NFPA) standard NFPA 13 compliant commercial sprinkler systems. ■ The riser manifold provides a cost effective and easy transition arrangement to control valves and system piping. ■ The riser manifold may be installed in either a horizontal or vertical orientation, for both single sprinkler rises and floor control in high-rises.

Model RM-2 Riser Manifolds - TFP964											
Part No.	DN		Dimensions mm							Approval & Listings	
			B	C mm	D mm	E mm	F mm	G mm	H mm	FM	UL
5940601	50	2"	1-1/4" NPT	597	66	239	213	119	130	√	√
5940611	65	2-1/2"	1-1/4" NPT	630	89	254	213	119	145	√	√
5940621	80	3"	1-1/4" NPT	640	94	259	218	119	150	√	√
5940651	100	4"	2" NPT	716	117	282	244	127	168	√	√
5940661	150	6"	2" NPT	795	150	305	290	127	191	√	√





Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

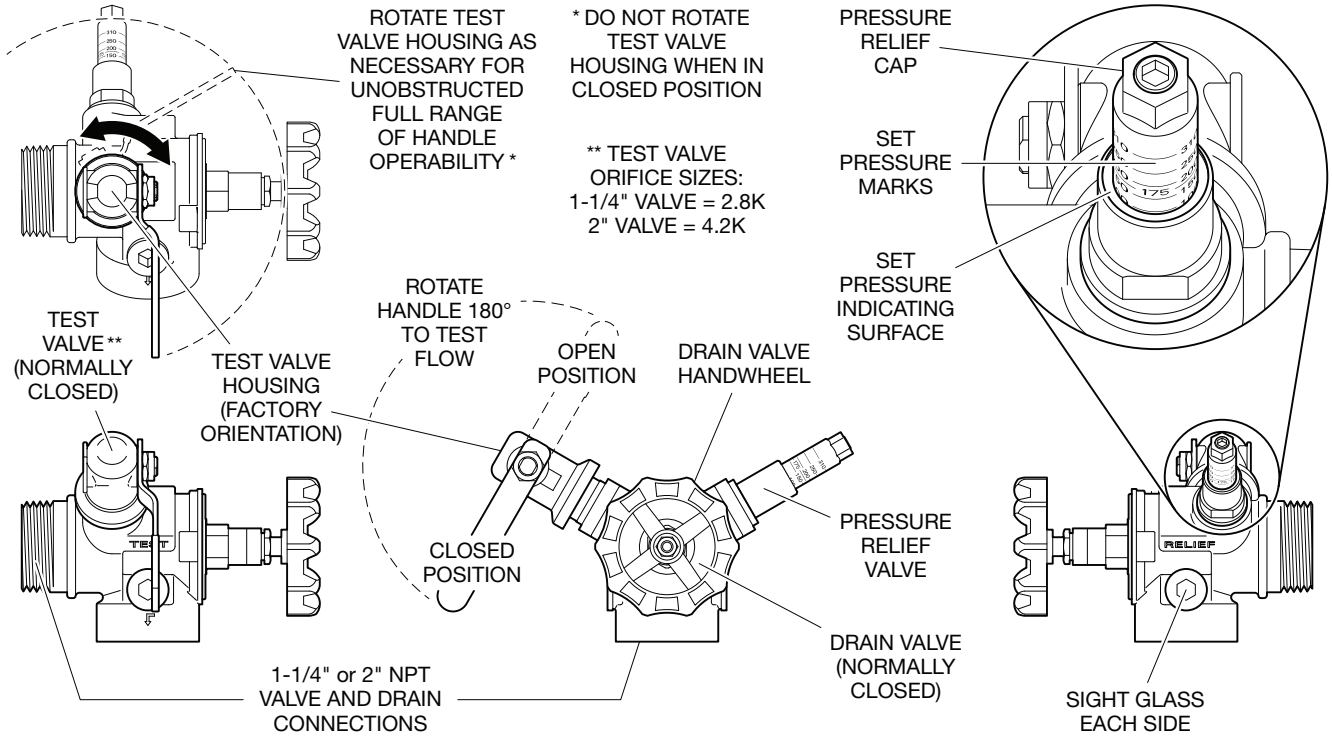
TD-2

Test & Drain Valve

Test Orifice	DN50 to DN80 (2" to 3") Manifolds: 2.8K DN100 to DN150 (4" to 6") Manifolds: 4.2K
Approvals	UL, C-UL Listed & FM Approved Listed by California State Fire Marshall
Maximum Service Pressure	20,7 bar (300 psi)
Shut-Off Valve	Linear stem actuation with EPDM rubber seals
End Connection	Thread x Thread
Tech Data Sheet	**TFP965**

The TYCO Model TD-2 Test and Drain Valve with integral pressure relief provides a simplified means for testing of waterflow alarm devices and draining of feed mains. ■ The valve is typically utilized for connection to a common inside drain where it is not practical to terminate an inspector's test connection outside of a building. ■ Linear shut-off eliminates leakage due to debris in media ■ Integral pressure relief ■ Self-cleaning sight glass provides positive indication of flow

Model TD-2 Test & Drain Valve - TFP965				
Part No.	Size	Test Orifice Size	Approval & Listings	
			FM	UL
598321	1-1/4" NPT	2.8K	√	√
598322	2" NPT	4.2K	√	√



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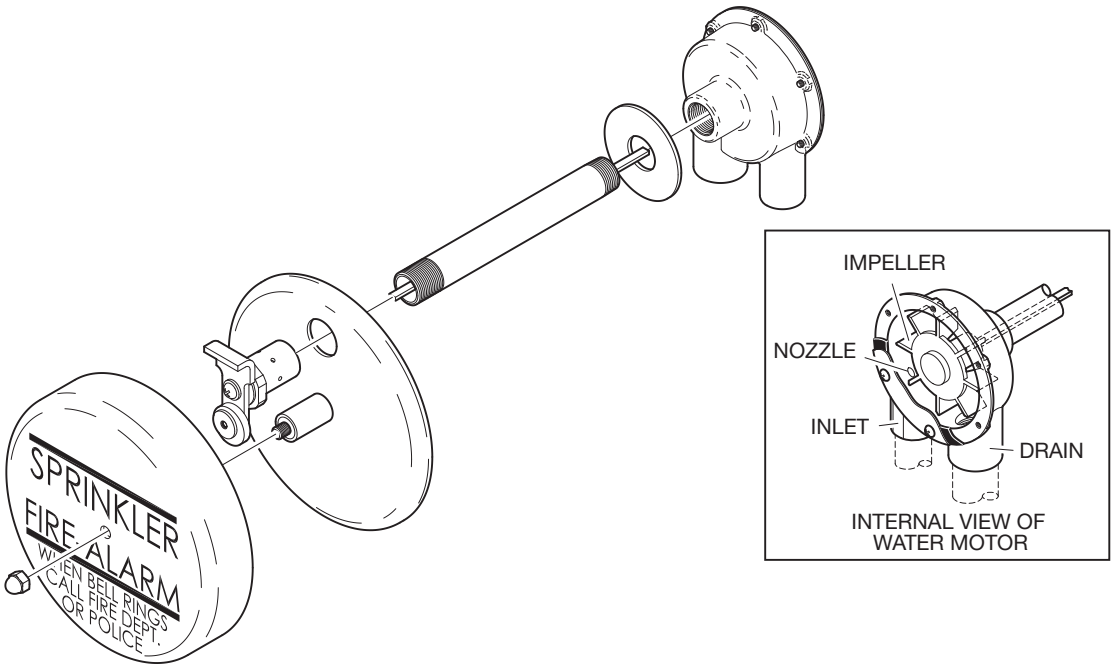
Wet System Valves & Devices

WMA-1

Water Motor Alarm

Size Range	NFPA 13D – DN25 (1") NFPA 13R or NFPA 12D – DN50 (2")
Approvals	UL, ULC Listed & FM, VdS, CE, & LPCB Approved
Maximum Working Pressure	20,7 bar (300 psi)
System	For use in a wet type automatic sprinkler system riser
Tech Data Sheet	**TFP921** **TFP922; European Conformity, 16 bar**

Hydraulically operated outdoor alarm for use with appropriate fire protection system valves (alarm, dry, deluge) ■ Supplied by dedicated outlet in valve trim line or retard chamber ■ Uses energy-efficient lightweight impeller design capable of producing very high sound level ■ Corrosion-resistant aluminium alloy gong, gong-mount, and water motor housing ■ Furnished with approved 20 mm (¾") Y-strainer for use in alarm line



WMA-1 Water Motor Alarm – TFP921																
Part No.	Description	Tech Data	Inlet NPT	Outlet NPT	Weight kg	Approval & Listings										
						VdS	LPCB	FM	UL	EN	CNBOP	VNIIPO	T/S/U	Fire Academy of Russia	CE
526301001P	Red WMA-1 + Trim	TFP921	3/4" ISO	1" ISO	5	√	√	√	√	√	√	√	√	√	√
526302001P	Aluminium WMA-1 + Trim	TFP921	3/4" ISO	1" ISO	5	√	√	√	√	√	√	√	√	√	√
526302002	Drain Trim	TFP921	-	-	2										
526301021R	Red WMA-1 + Trim	TFP922	3/4" ISO	1" ISO	5	√	√	√	√	√	√	√	√	√	√
526302021	Aluminium WMA-1 + Trim	TFP922	3/4" ISO	1" ISO	5	√	√	√	√	√	√	√	√	√	√
526302002E	Drain Trim	TFP922	-	-	2										

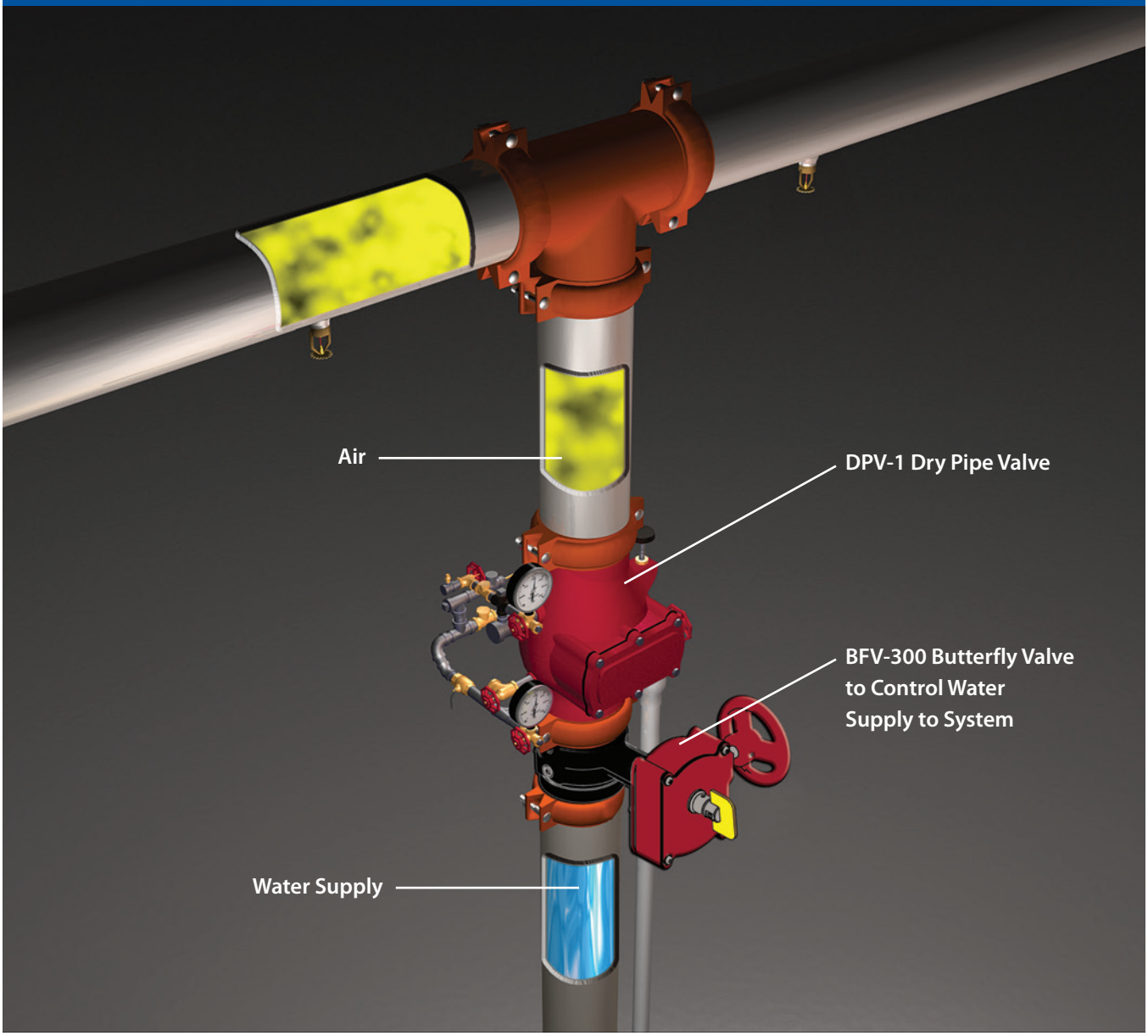
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry Pipe Sprinkler Systems

Designed for use in dry pipe sprinkler systems where piping and sprinklers are subjected to freezing temperatures.

- Unheated Warehouses
- Attic Spaces
- Parking Garages
- Loading Docks
- Store Windows

Dry System Valves & Devices

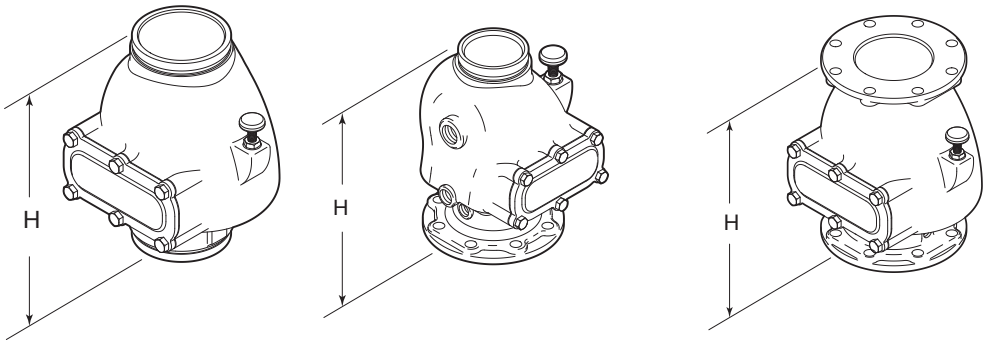


DPV-1

Dry Pipe Valve

Size Range	DN65 thru DN150 (2½" thru 6")
Approvals	UL, C-UL Listed & FM Approved
Maximum Service Pressure	17,2 bar (250 psi)
System	For use in dry pipe fire protection systems
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP1020**

External reset differential dry pipe valves ■ Unique offset single clapper design enabling a simple compact valve to minimise installation labor ■ Used to supply sprinkler installations in which sprinklers are subjected to freezing conditions (4°C / 40°F or less) ■ Ductile iron construction to ensure a lightweight valve to minimise shipping cost. ■ Compact, Pre-Trimmed, and Semi-Assembled, easy to operate valve trim. ■ Simple reset procedure through the elimination of priming water.



Model DPV-1 Dry Pipe Valve - TFP1020													
Part No.	DN		Drain	Inlet	Outlet	H mm	Weight kg	Approval & Listings					
								VdS	LPCB	CE	FM	UL	VNIIPO
523131925	65[76,1mm]	2-½"	1-½" BSP	GRV	GRV	311	25	–	–	–	√	√	√
523131930	80	3"	2" BSP	GRV	GRV	311	25	–	–	–	√	√	√
523131940	100	4"	2" BSP	GRV	GRV	346	30	√	√	√	√	√	√
523131960	150[168,3mm]	6"	2" BSP	GRV	GRV	406	55	√	√	√	√	√	√
523131966	150[165,1mm]	6"	2" BSP	GRV	GRV	406	55	√	√	√	√	√	√
523121040	100	4"	2" NPT	ANSI 125	ANSI 125	346	40	√	√	√	√	√	√
523121060	150	6"	2" NPT	ANSI 125	ANSI 125	406	60	√	√	√	√	√	√
523131040	100	4"	2" BSP	PN10/16	PN10	346	40	√	√	√	√	√	√
523131060	150	6"	2" BSP	PN10/16	PN10	406	60	√	√	√	√	√	√
523121440	100	4"	2" NPT	ANSI 125	GRV	346	36	√	√	√	√	√	√
523121460	150[168,3mm]	6"	2" NPT	ANSI 125	GRV	406	55	√	√	√	√	√	√
523121466	150[165,1mm]	6"	2" NPT	ANSI 125	GRV	406	55	√	√	√	√	√	√
523131440	100	4"	2" BSP	PN10/16	GRV	346	36	√	√	√	√	√	√
523131460	150[168,3mm]	6"	2" BSP	PN10/16	GRV	406	55	√	√	√	√	√	√
523131466	150[165,1mm]	6"	2" BSP	PN10/16	GRV	406	55	√	√	√	√	√	√
523131041	100	4"	4" NPT	ISO	ISO	346	36	√	√	√	√	√	√
523131061	150[168,3mm]	6"	6" NPT	ISO	ISO	406	60	√	√	√	√	√	√

FM Trims Galvanized - TFP1020		
Part No.	DN	
523092005E	65-80	2-½" - 3"
523092001E	100	4"
523092002E	150	6"

CE/FM Trims Galvanized - TFP1090		
Part No.	DN	
CE080DPV1	65-80	2-½" - 3"
CE100DPV1	100	4"
CE150DPV1	150	6"

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

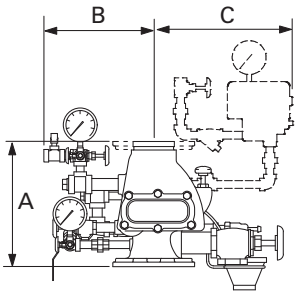
Dry System Valves & Devices

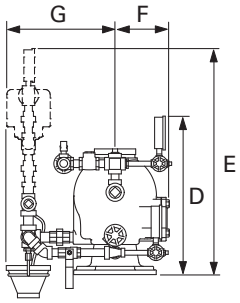
Dry System Valve Assemblies DPV-1 with FM Trim DN65-100

Standard Assembly:

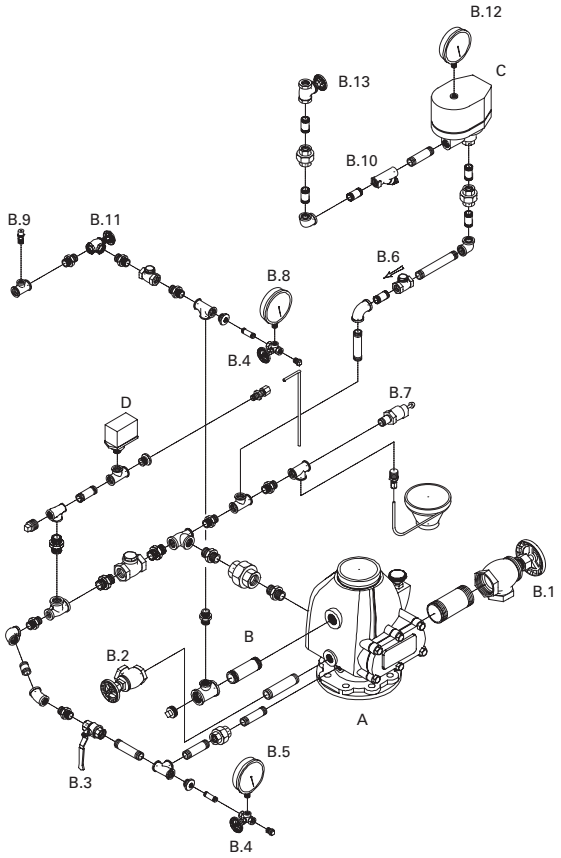
- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- No Stop Valve*

*For Stop Valve see chapter 3, needs to be ordered separately





DPV-1 FM Dry System Valve Assembly with FM Trim, DN65 - DN100 - TFP1020												
Part No.	DN		Inlet	Outlet	Dimensions							Weight kg
					A mm	B mm	C mm	D mm	E mm	F mm	G mm	
2B07200101	65[76,1mm]	2-1/2"	GRV	GRV	305	385	240	595	210	175	210	29
2B37200101	80	3"	GRV	GRV	305	385	240	595	210	175	210	35
2747200101	100	4"	PN10/16	PN10/16	346	300	380	440	625	150	300	58
2847200101	100[114,3mm]	4"	PN10/16	GRV	346	300	380	440	625	150	300	54
2B47200101	100[114,3mm]	4"	GRV	GRV	346	300	380	440	625	150	300	47



Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Valve
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Pressure Relief Valve
B.10	Strainer
B.11	Air Supply Control Valve
B.12	Accelerator Pressure Gauge
B.13	Accelerator Control Valve
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1

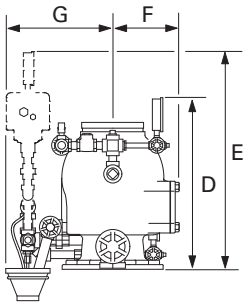
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

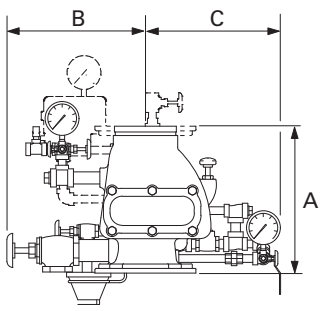
Dry System Valve Assemblies DPV-1 with FM Trim DN150

Standard Assembly:

- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- No Stop Valve*

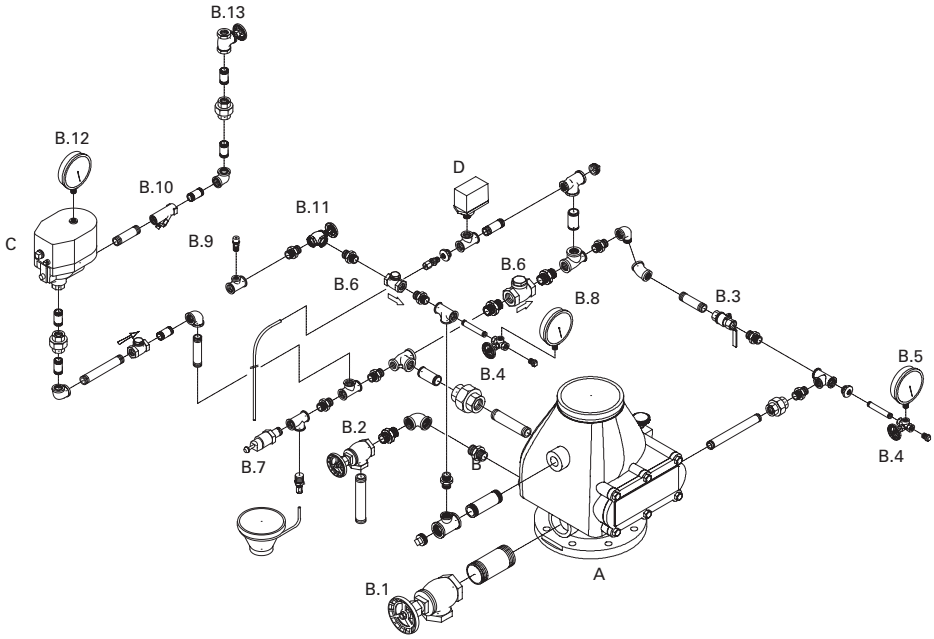
*For Stop Valve see chapter 3, needs to be ordered separately





DPV-1 FM Dry System Valve Assembly with FM Trim, DN150 - TFP1020												
Part No.	DN		Inlet	Outlet	Dimensions							Weight kg
					A mm	B mm	C mm	D mm	E mm	F mm	G mm	
2767200101	150	6"	PN10/16	PN10/16	406	380	375	475	600	190	290	78
2867200101	150 [168,3mm]	6"	PN10/16	GRV	406	380	375	475	600	190	290	73
2B67200101	150 [168,3mm]	6"	GRV	GRV	406	380	375	475	600	190	290	78

Other options available on request



Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Shut Off Valve 3-way [supervised]
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Manifold
B.10	Air Supply Control Valve
B.11	Accelerator Pressure Gauge
B.12	Accelerator Control Valve [supervised]
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1
E	Supervised Gate Valve [05-47]

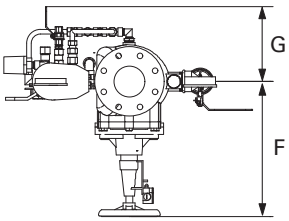
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

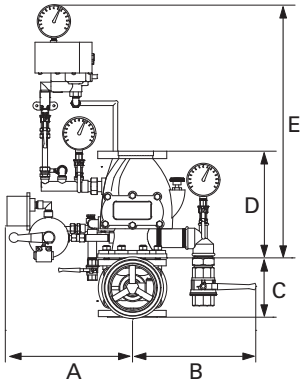
Dry System Valves & Devices

Dry System Valve Assemblies DPV-1 with CE/VdS Trim DN100

Standard Assembly:

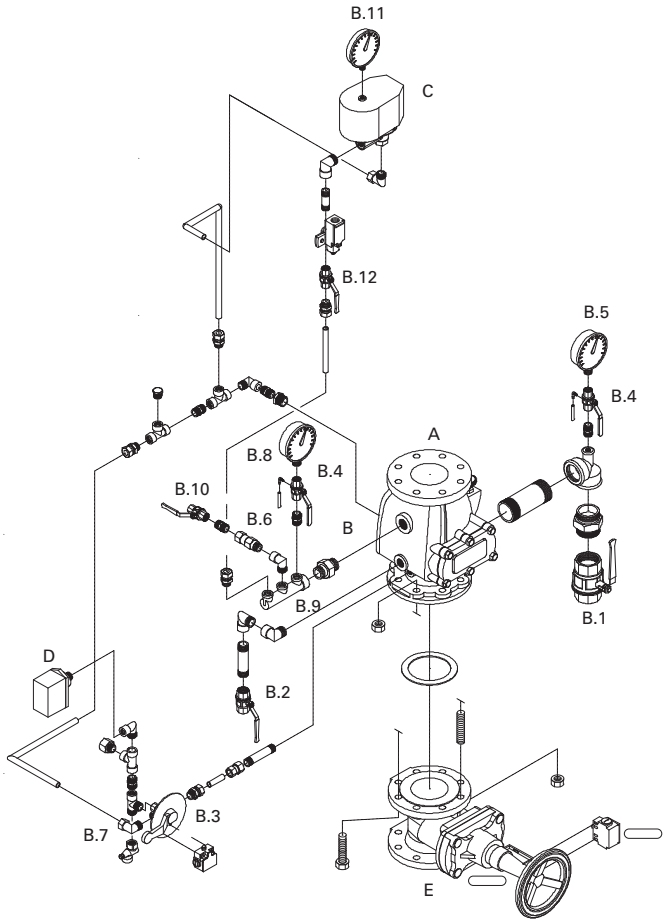
- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- Gate Valve [0547] Supervised





DPV-1 Dry System Valve Assembly with CE/VdS Trim, DN100 - TFP1090																				
Part No.	DN		Inlet	Outlet	Dimensions mm							Weight kg	Approval & Listings							
					A	B	C	D	E	F	G		VdS	LPCB	EN	CE	Ukrainian	Belarusian	VKF	Fire Academy of Russia
2748861105	100	4"	PN10/16	PN10/16	412	400	193	346	820	438	243	85	√	√	√	√	√	√	√	√
2848861105	100 [114,3mm]	4"	PN10/16	GRV	412	400	193	346	820	438	243	81	√	√	√	√	√	√	√	√

Other options available on request



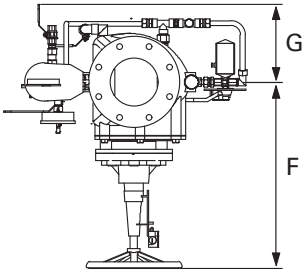
Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Shut Off Valve 3-way [supervised]
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Manifold
B.10	Air Supply Control Valve
B.11	Accelerator Pressure Gauge
B.12	Accelerator Control Valve [supervised]
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1
E	Supervised Gate Valve [05-47]

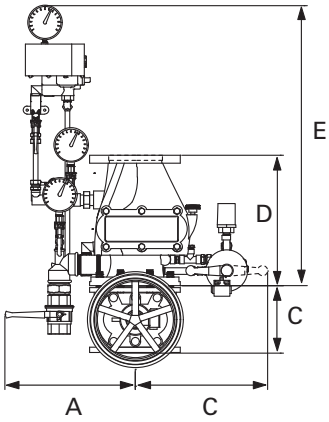
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry System Valve Assemblies DPV-1 with CE/VdS Trim DN150

Standard Assembly:

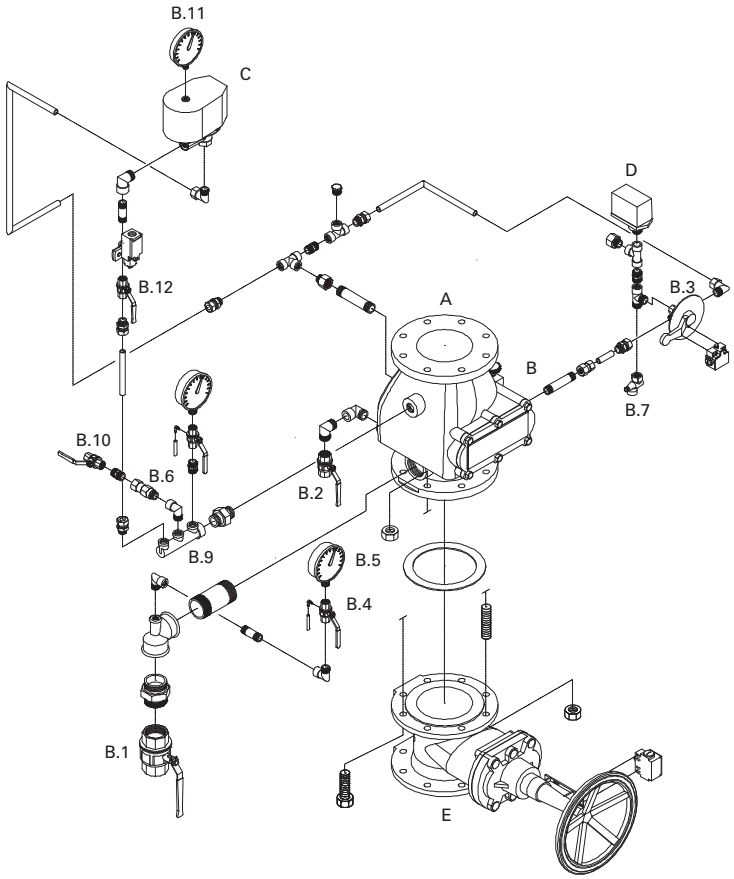
- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- Gate Valve [0547] Supervised





DPV-1 Dry System Valve Assembly with CE/VdS Trim, DN150 - TFP1090																			
Part No.	DN		Inlet	Outlet	Dimensions mm							Weight kg	Approval & Listings						
					A	B	C	D	E	F	G		VdS	LPCB	EN	CE	Ukrainian	Belarusian	VKF	Fire Academy of Russia
2768861105	150	6"	PN10/16	PN10/16	407	414	213	406	875	583	243	122	√	√	√	√	√	√	√	√
2868861105	150 [168,3mm]	6"	PN10/16	GRV	407	414	213	406	875	583	243	117	√	√	√	√	√	√	√	√
2B68800101	150 [168,3mm]	6"	GRV	GRV	407	414	153	406	875	190	243	77	√	√	√	√	√	√	√	√

Other options available on request



Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Shut Off Valve 3-way [supervised]
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Manifold
B.10	Air Supply Control Valve
B.11	Accelerator Pressure Gauge
B.12	Accelerator Control Valve [supervised]
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1
E	Supervised Gate Valve [05-47]

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

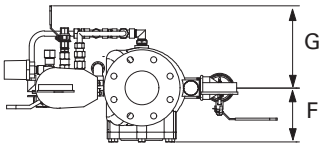
Dry System Valves & Devices

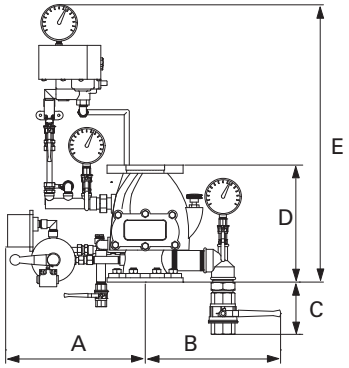
Dry System Valve Assemblies DPV-1 with CE/FM Trim DN65-100

Standard Assembly:

- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- No stop Valve*

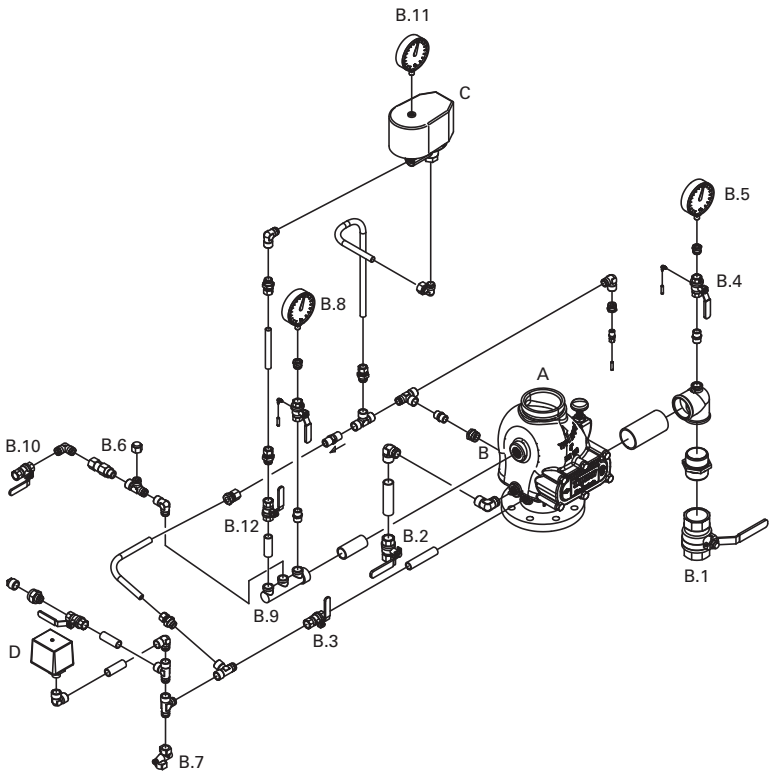
*For Stop Valve see chapter 3, needs to be ordered separately





DPV-1 Dry System Valve Assembly with CE/FM Trim, DN65-100 - TFP1090																	
Part No.	DN		Inlet	Outlet	Dimensions mm							Weight kg	Approval & Listings				
					A	B	C	D	E	F	G		FM	CE	Ukrainian	Belarusian	LPCB
2B08900101*	65 [76,1mm]	2-1/2"	GRV	GRV	395	263	116	311	775	124	193	33	√		√	√	√
2B38900101*	80	3"	GRV	GRV	395	263	116	311	775	124	193	39	√		√	√	√
2748900101	100	4"	GRV	GRV	407	376	137	349	787	150	193	51	√	√	√	√	√
2848900101	100	4"	PN10/16	PN10/16	407	376	137	349	787	150	193	51	√	√	√	√	√
2B48900101	100	4"	PN10/16	GRV	407	376	137	349	787	150	193	51	√	√	√	√	√

* No CE
Other options available on request



Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Shut Off Valve 3-way [supervised]
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Manifold
B.10	Air Supply Control Valve
B.11	Accelerator Pressure Gauge
B.12	Accelerator Control Valve [supervised]
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1

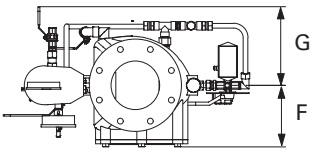
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

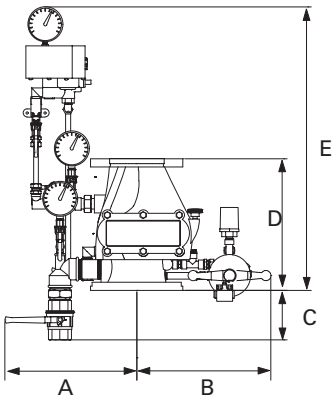
Dry System Valve Assemblies DPV-1 with CE/FM Trim DN150

Standard Assembly:

- Dry Alarm Valve [DPV-1]
- Accelerator [ACC-1]
- Pressure Alarm Switch [PS10-1]
- No stop Valve*

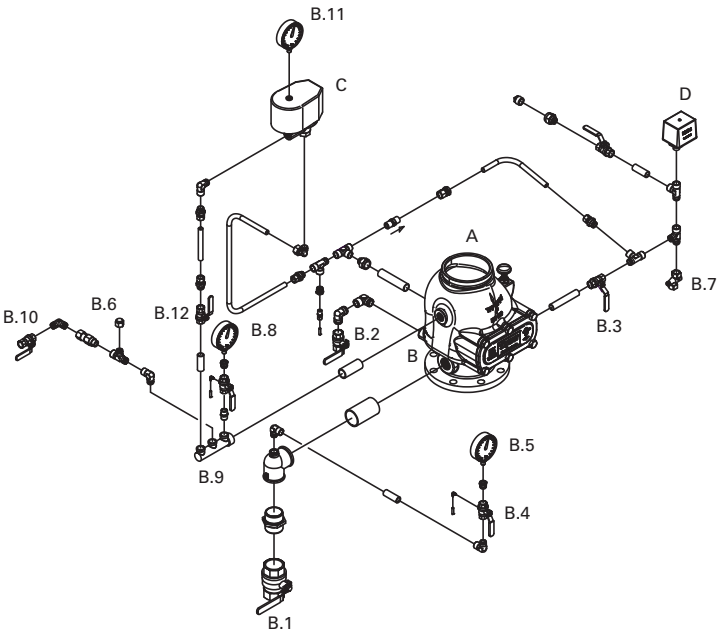
*For Stop Valve see chapter 3, needs to be ordered separately





DPV-1 Dry System Valve Assembly with CE/FM Trim, DN150 - TFP1090																	
Part No.	DN		Inlet	Outlet	Dimensions mm							Weight kg	Approval & Listings				
					A	B	C	D	E	F	G		FM	CE	Ukrainian	Belarusian	LPCB
2B68900101	150 [168,3mm]	6"	GRV	GRV	339	375	135	406	415	184	193	73	√	√	√	√	√
2768900101	150	6"	PN10/16	PN10/16	339	375	135	406	415	184	193	68	√	√	√	√	√
2868900101	150 [168,3mm]	6"	PN10/16	GRV	339	375	135	406	415	184	193	77	√	√	√	√	√

Other options available on request

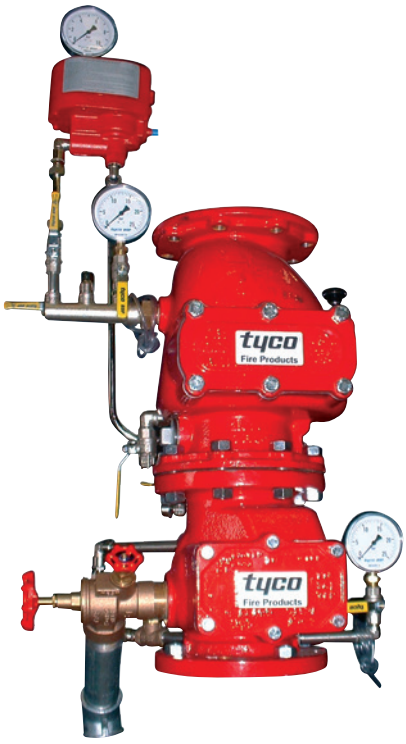


Pos.	Description
A	Dry Alarm Valve DPV-1
B	Alarm Valve Trim, including:
B.1	Main Drain Valve
B.2	Low Body Drain Valve
B.3	Alarm Test Shut Off Valve 3-way [supervised]
B.4	Gauge Test Valve
B.5	Water Supply Pressure Gauge
B.6	Check Valve
B.7	Automatic Drain Valve
B.8	System Air Pressure Gauge
B.9	Manifold
B.10	Air Supply Control Valve
B.11	Accelerator Pressure Gauge
B.12	Accelerator Control Valve [supervised]
C	Accelerator ACC-1
D	Pressure Alarm Switch PS10-1

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry System Valves & Devices

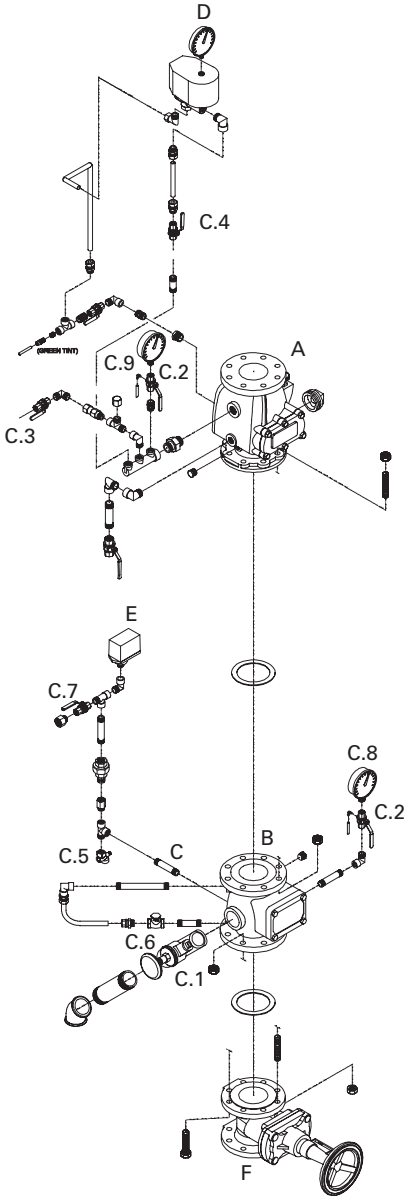
Alternate Valve Assemblies, Model LPC Trim

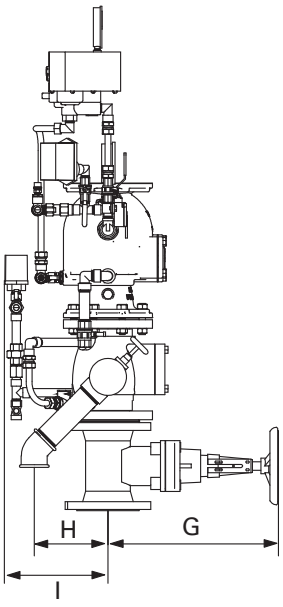


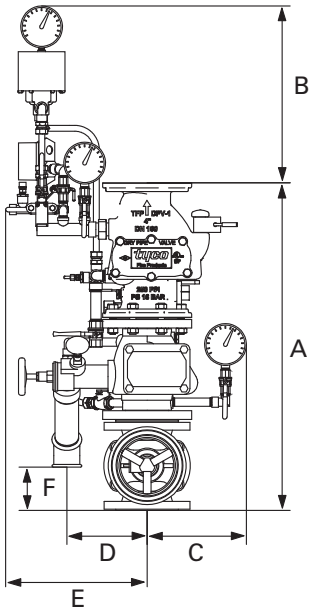
Standard Assembly:

- Dry Alarm Valve [DPV-1], TFP1090
- Wet Alarm Valve [AV-1], TFP910
- Gate Valve [0557]
- Pressure Alarm Switch [PS10-1]
- Accelerator [ACC-1], TFP1112

Pos.	Description
A	Dry Pipe Valve DPV-1
B	Wet Alarm Valve AV-1
C	Alarm Valve Trim, including:
C.1	Test & Drain Valve
C.2	Gauge Test Valve
C.3	Air Supply Control Valve
C.4	Accelerator Control Valve
C.5	Automatic Drain Valve
C.6	Check Valve
C.7	Alarm Shut-Off Valve
C.8	Supply Pressure Gauge
C.9	System Pressure Gauge
D	Accelerator ACC-1
E	Pressure Switch PS10-1
F	Superused Gate Valve 05-57





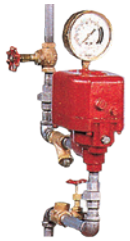


Alternate Valve Assembly, LPC Trim													
Part No.	DN		Inlet	Outlet	Dimensions mm								
					A	B	C	D	E	F	G	H	I
6348919101	100	4"	PN10/16	PN10/16	841	455	255	206	363	111	438	190	266
6368919101	150	6"	PN10/16	PN10/16	990	419	281	234	399	152	583	190	282

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

ACC-1

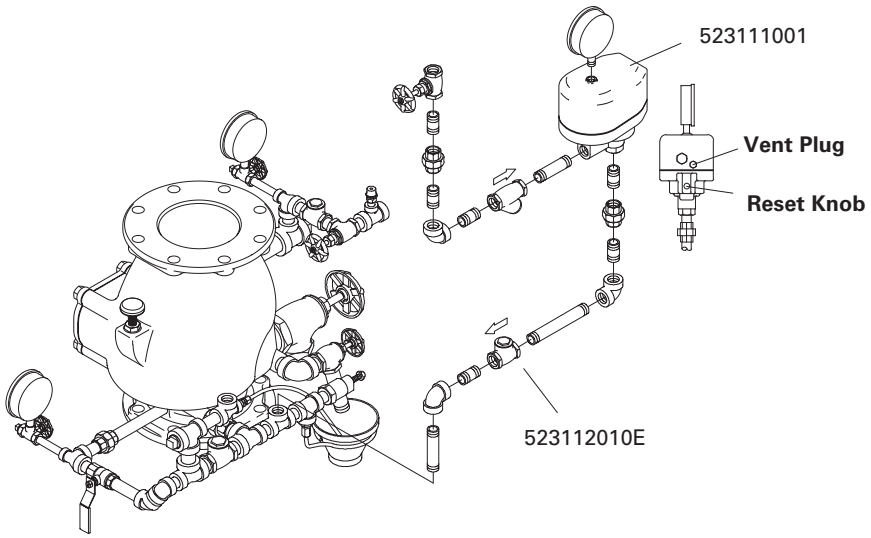
Dry Pipe Valve Accelerator



Approvals	UL, C-UL Listed & FM, LPCB, & VdS Approved
Maximum Working Air Pressure	4,8 bar (70 psi)
System	For use in dry pipe fire protection systems
End Connection	Threaded
Tech Data Sheet	**TFP1112**

Model ACC-1 Accelerator reduces the time for valve operation following the operation of one or more automatic sprinklers. ■ Automatically adjusts to small or slow changes in system pressure but trips upon a rapid and steady drop in pressure ■ Designed to trip when system air pressure drops at a rate exceeding approximately 0.07 bar/minute (1 psi/minute) ■ Upon tripping, it transmits system air pressure to the intermediate chamber of the dry pipe valve, which neutralizes the differential pressure holding the valve closed and opens the waterway clapper ■ Rated for use at a maximum water supply pressure of 17,2 bar (250 psi) and a maximum system air (or nitrogen) pressure of 4,8 bar (70 psi)

Model ACC-1 Dry Pipe Accelerator								
Part No.	Description	Approval & Listings						
		VdS	LPCB	FM	UL	VKF	TSU	Fire Academy of Russia
523111001	Accelerator ACC-1	√*	√	√	√	√	√	√
523112010E	Trim	√*	√	√	√	√	√	√



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

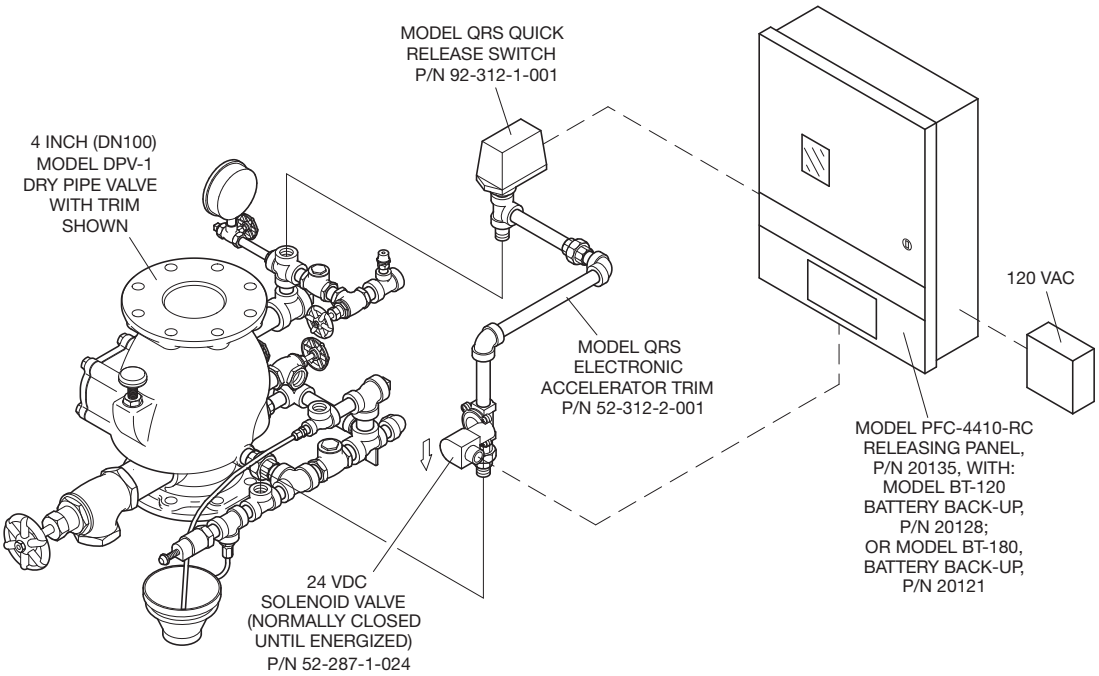
Dry System Valves & Devices

QRS

Electronic Accelerator

Approvals	UL Listed & FM Approved
Maximum Working Air Pressure	4,8 bar (70 psi)
System	For use in dry pipe fire protection systems
End Connection	Threaded
Tech Data Sheet	**TFP1100**

Quick opening device intended to reduce the time for dry pipe valve operation following the operation of one or more automatic sprinklers. ■ Automatically adjusts to both small and slow changes in system pressure, but trips with a steady drop in pressure (as in the case of sprinkler operation) ■ Can be used to retro-fit existing mechanical accelerators ■ Fully assembled package includes switch, solenoid, control panel, and accelerator trim pipe and fittings ■ Built-in low and high pressure alarm supervision ■ Proven electronic release technology as used for electrically operated deluge and preaction systems ■ Battery back-up in the event of primary power failure ■ Eliminates re-setting problems often incurred with traditional mechanical accelerators

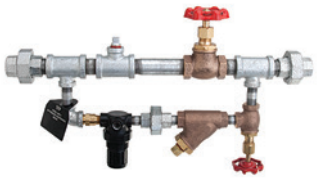


Model QRS Electronic Accelerator			
Part No.	Description	Approval & Listings	
		FM	UL
923121001	Quick Release Switch	√	√
522871024P	Solenoid Valve	√	√
523122001	Trim	√	√
923121002	PFC-100RC Releasing Panel	√	√
923121003	BT-40 4,0 AH Battery [2 x req.]	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

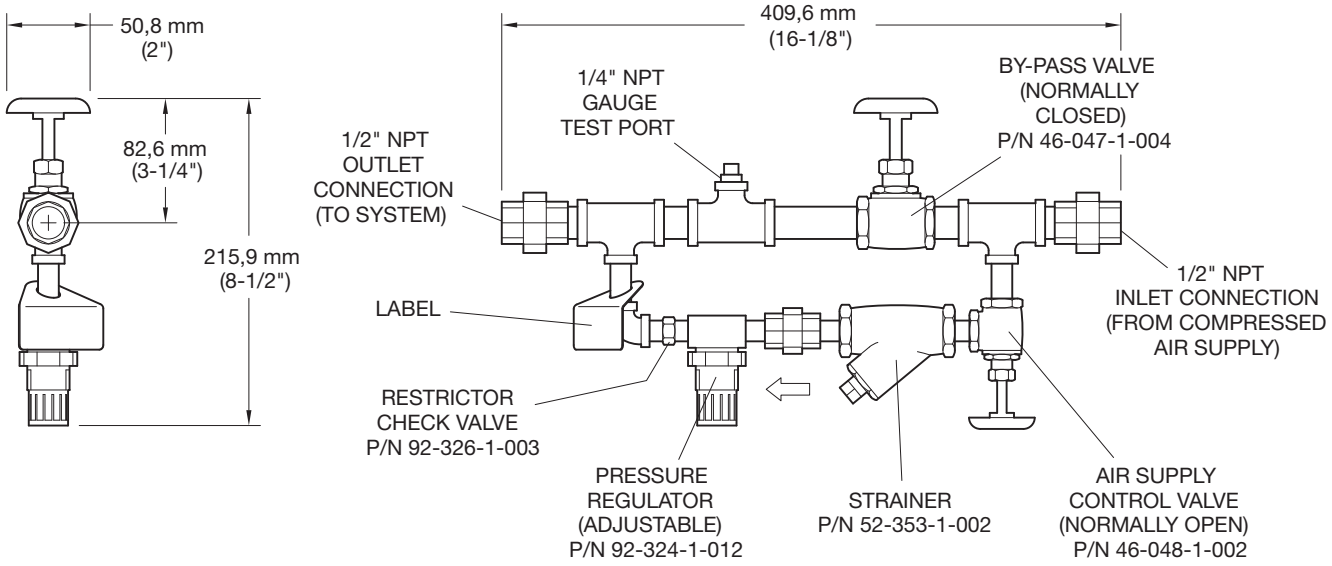
AMD-1

Air Maintenance Device, Pressure Reducing Type



Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Outlet Pressure Range	0,4 to 4,8 bar (5 to 70 psi)
Maximum Inlet Air Supply Pressure	13,8 bar (200 psi)
System	For use in dry pipe fire protection systems
Tech Data Sheet	TFP1221

Field adjustable ■ Used in systems where compressed air source is available ■ Used in systems in which the air supply is at a higher pressure than is desired for a sprinkler system or dry pilot line system



Model AMD-1 Air Maintenance Device, Pressure Reducing Type			
Part No.	Description	Approval & Listings	
		FM	UL
523242002E	Pressure Reducing Type	√	√

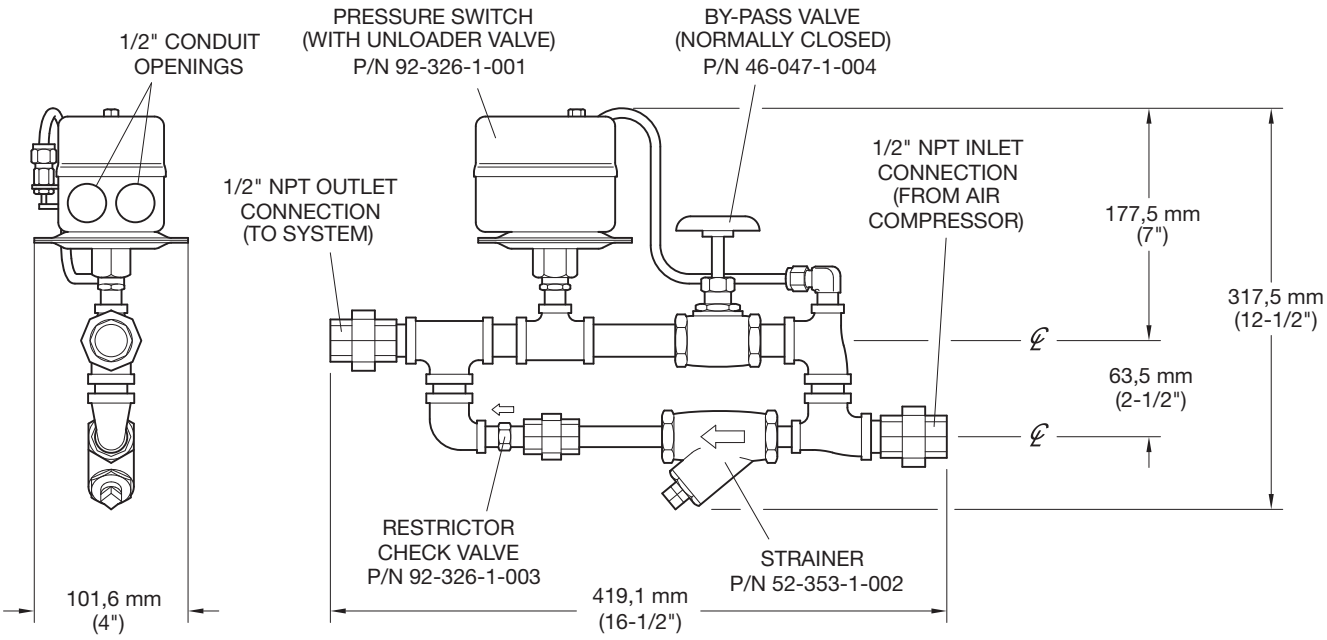
Dry System Valves & Devices

AMD-2

Air Maintenance Device, Compressor Control Type

Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Pressures	Minimum Cut-In (On) 1,0 bar (14 psi) Maximum Cut-Out (Off) 4,1 bar (60 psi)
NEMA Rating	The housing of the Pressure Switch meets NEMA 1 requirements.
System	For use in dry pipe fire protection systems
Tech Data Sheet	**TFP1231**

Field adjustable ■ Used in conjunction with a small, non-tank-mounted air compressor ■ Monitors sprinkler system or dry pilot line detection for deluge system air pressure and automatically cycles the compressor to maintain system pressure within preset limits



Model AMD-2 Air Maintenance Device, Compressor Control Type			
Part No.	Description	Approval & Listings	
		FM	UL
523262001	Compressor [w/o Tank] Control Type	√	√

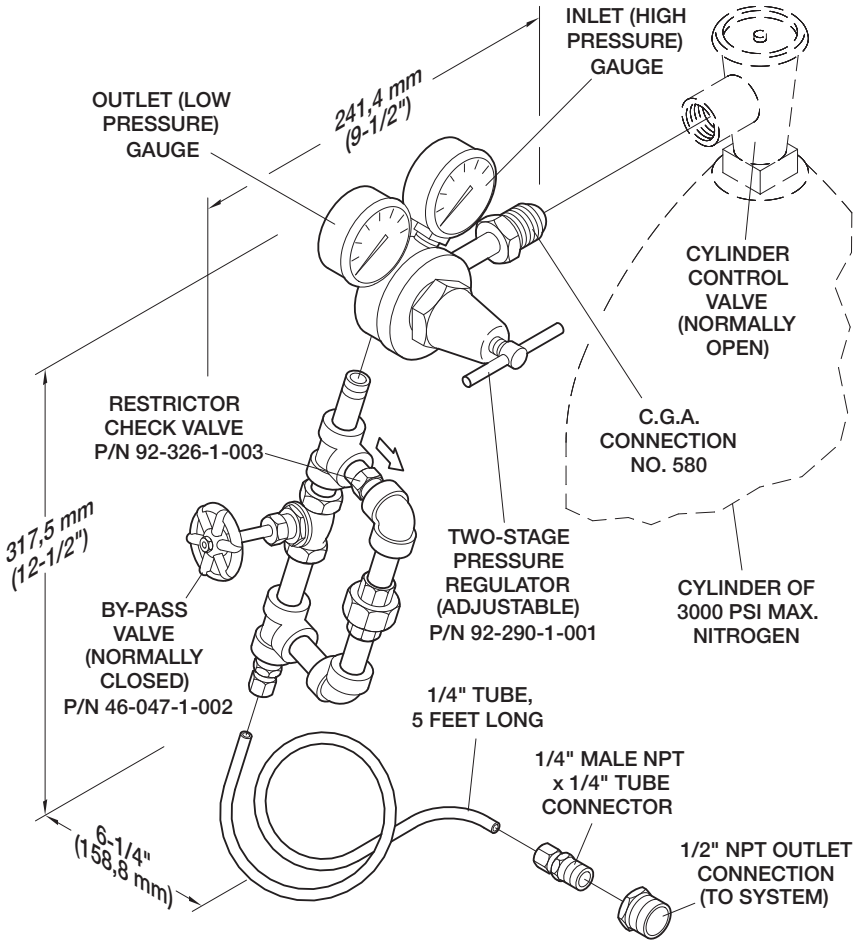
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

AMD-3

Nitrogen Maintenance Device, High Pressure (Cylinder) Reducing Type

Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Outlet Pressures Range	0,4 to 4,1 bar (4 to 60 psi)
Maximum Inlet Nitrogen Supply Pressure	200 bar (3000 psi)
System	For use in dry pipe fire protection systems
Tech Data Sheet	TFP1241

Field adjustable ■ Used in conjunction with a cylinder of high pressure nitrogen to control the nitrogen pressure in a sprinkler system or a dry pilot line detection for deluge systems



Model AMD-3 Nitrogen Maintenance Device, High Pressure (Cylinder) Reducing Type			
Part No.	Description	Approval & Listings	
		FM	UL
523282001	Model AMD-3 Automatic Nitrogen Maintenance Device	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

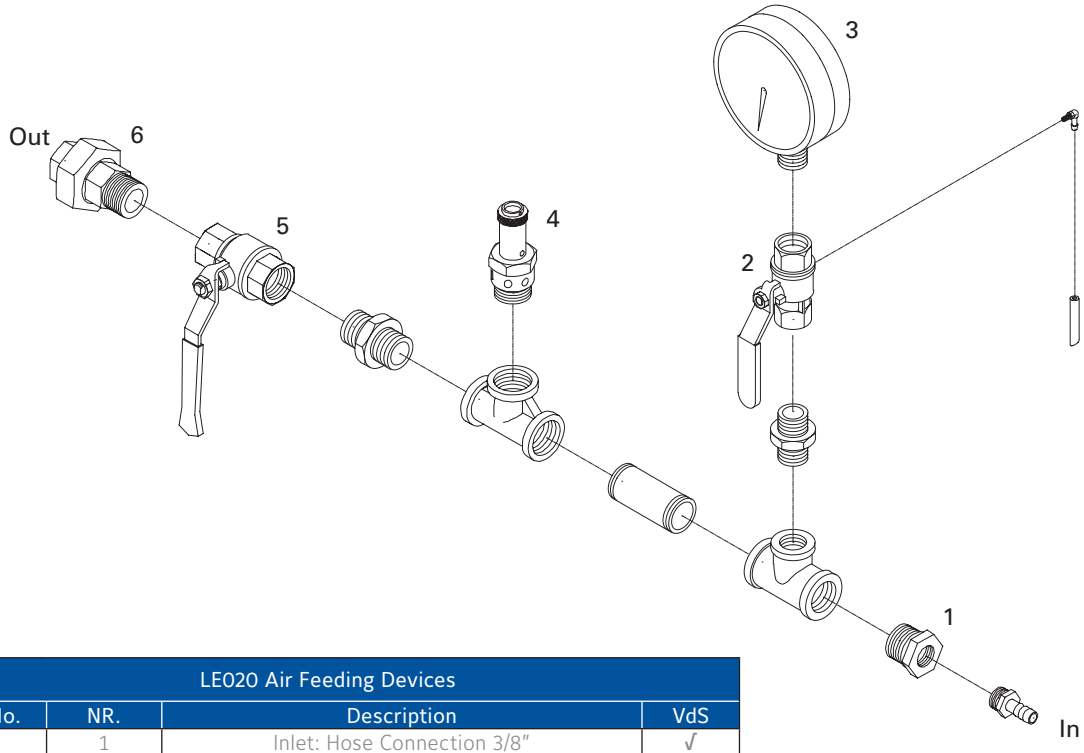
Dry System Valves & Devices

LE020

Air Feeding Devices

Approvals	VdS
Maximum Inlet Nitrogen Supply Pressure	Maximum inlet pressure 3,5 bar
System	For use in dry pipe fire protection systems
Tech Data Sheet	**Contact Tyco for details**

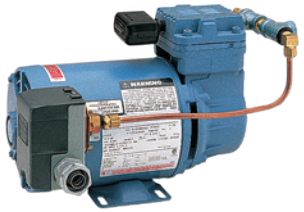
For feeding air into a dry pipe valve system



LE020 Air Feeding Devices			
Part No.	NR.	Description	VdS
LE020TGR	1	Inlet: Hose Connection 3/8"	√
	2	Ball Valve 1/2"	√
	3	Pressure Gauge 0-16 Bar 1/2"	√
	4	Safety Valve @ 3,5 Bar 3/4"	√
	5	Ball Valve 3/4"	√
	6	Outlet: 3/4" Male/Female Union	√
		Pressure Reducing Type	√

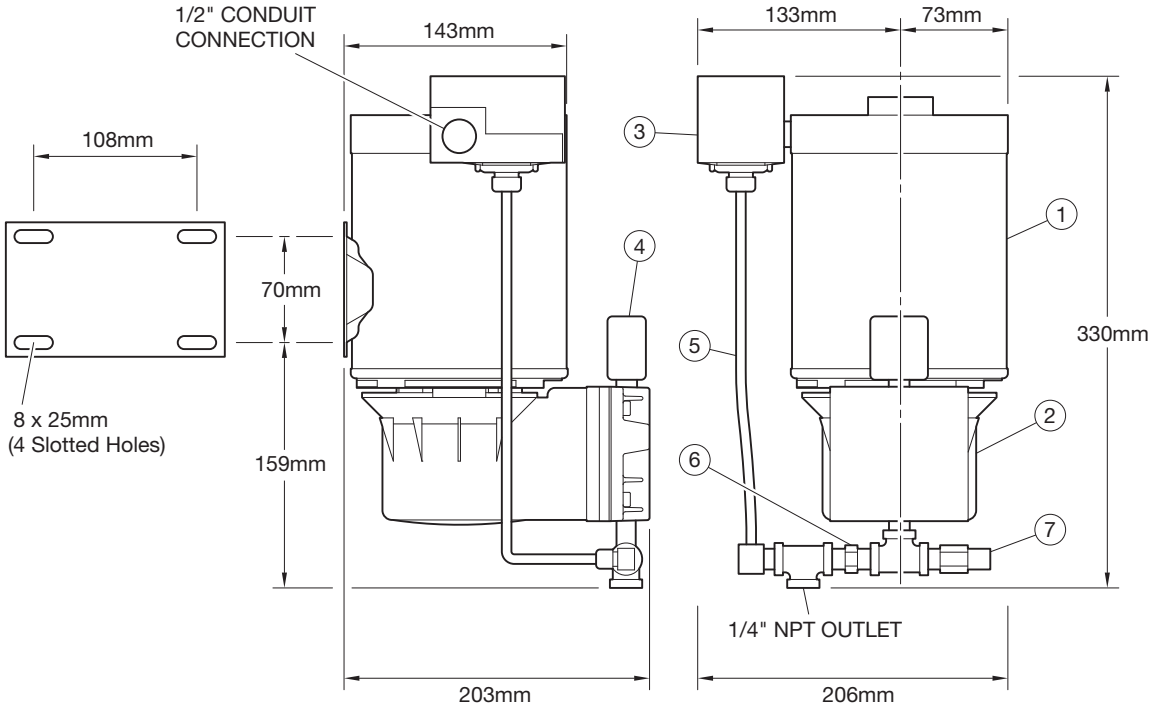
Model G16AC812

Automatic Supervisory Air Supply



Approvals	UL Listed & CSA Certified
Nominal Supervisory Air Pressure	0,7 bar (10 psi)
Tech Data Sheet	TFP1620

Supplies and maintains air in single interlock preaction fire protection systems ■ Can be mounted on the floor, on a wall, or to the system riser using optional brackets



Model G16AC812 Automatic Supervisory Air Supply			
Part No.	Description	Approval & Listings	
		UL	CSA
521501001	Model G16AC812 Automatic Supervisory Air Supply	√	√
521501000	Universal Riser Mounting Kit		

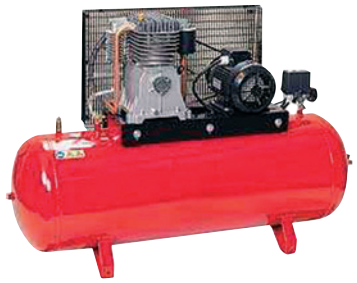
Model G16AC812 Components	
NR.	Description
1	Motor
2	Pump
3	Pressure Operated Switch
4	Inlet Air Filter
5	Sensing Line
6	Check Valve
7	Relief Valve

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Compressors

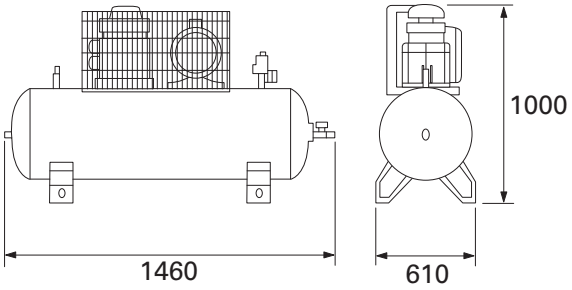
Model AB

Compressors



Approvals	CE: 98/37/CEE · 89/336/CEE · 73/23/CEE · 93/68/CEE · EN60204/1 · EN1012/1 · EN60335/1 · 87/404/CEE
Tech Data Sheet	**Contact Tyco for details**

The AB compressor is for use in dry, deluge and pre-action fire protection systems. ■ The compressor unit is an air-cooled double cylinder compressor pump, belt driven by an electric motor. ■ The AB is supplied complete with a tank, pressure control switch with on/off manual override, off loading valve, automatic thermal overload switch, tank pressure gauge, pressure reducer assembly and pressure gauge, condensate drain valve and safety valve. ■ The unit should be supported on the ground by means of four anti-vibration mountings and anchors.



Model AB Compressors							
Nominal Power Kw	Effec. Air Delivery	Ambient Temp. Range	Frequency	Thermal Protection	Noise Level	Compressor Connection	Weight kg
3 [in]/2,3 [out]	327 ltr./min. at 2,8 Bar	+5/+40° C	50 Hz	Automatic Reset	80 dB [A]	Rapid tap	110

Model AB Compressors							
Air Displacement	Rotation Speed	Voltage	Nom. Current	Degree of Protection	Volume Air Tank	Outlet Press. red. assy	Oil Content Assy
397 ltr./min.	1210 rpm.	Three Phase 400 VAC	7,5 A	IP54	200 ltr.	3/8" Female BSP	0,64 ltr.

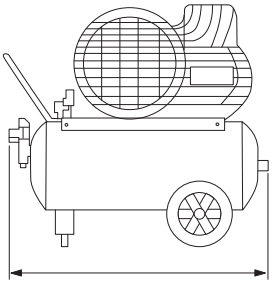
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

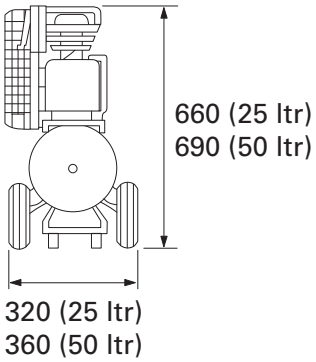
Model CCS

Compressors

Approvals	TUV: Cert. AL990635692001 CE: 98/37/CEE · 89/336/CEE – 73/23/CEE · 93/68/CEE · EN60204/1 · EN1012/1 · EN60335/1 · 87/404/CEE
Tech Data Sheet	**Contact Tyco for details**

The CCS compressor is for use in a dry, deluge and pre-action fire protection systems. ■ The compressor unit is an air-cooled double cylinder compressor pump, belt driven by an electric motor. ■ The CCS is supplied complete with a tank, pressure control switch with on/off manual override, off loading valve, automatic thermal overload switch, tank pressure gauge, pressure reducer assembly and pressure gauge, condensate drain valve and safety valve. ■ The unit is supported on the ground by two wheels and one anti-vibration mounting





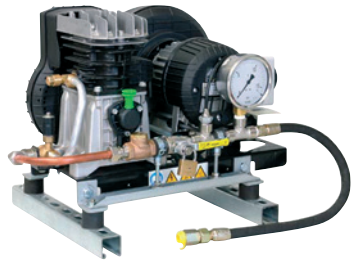
Model CCS Compressors							
Nominal Power Kw	Effec. Air Delivery	Ambient Temp. Range	Frequency	Thermal Protection	Noise Level	Compressor Connection	Weight kg
2,0 [in]/1,5 [out]	187 ltr./min. at 2,8 Bar	+5/+40° C	50 Hz	Automatic reset	77 dB [A]	Rapid tap	53

Model CCS Compressors							
Air Displacement	Rotation Speed	Voltage	Nom. Current	Degree of Protection	Volume Air Tank	Outlet Press. Red. Assy	Oil Content Assy
248 ltr./min.	1240 rpm.	Single Phase 230 VAC	7,5 A	IP42	25 / 50 ltr.	3/8" female BSP	0,32 ltr.

Compressors

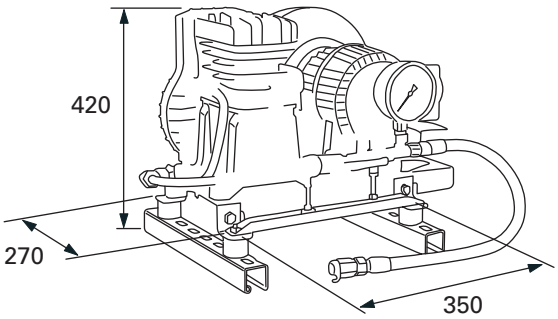
Model CCS LPCB

Compressors



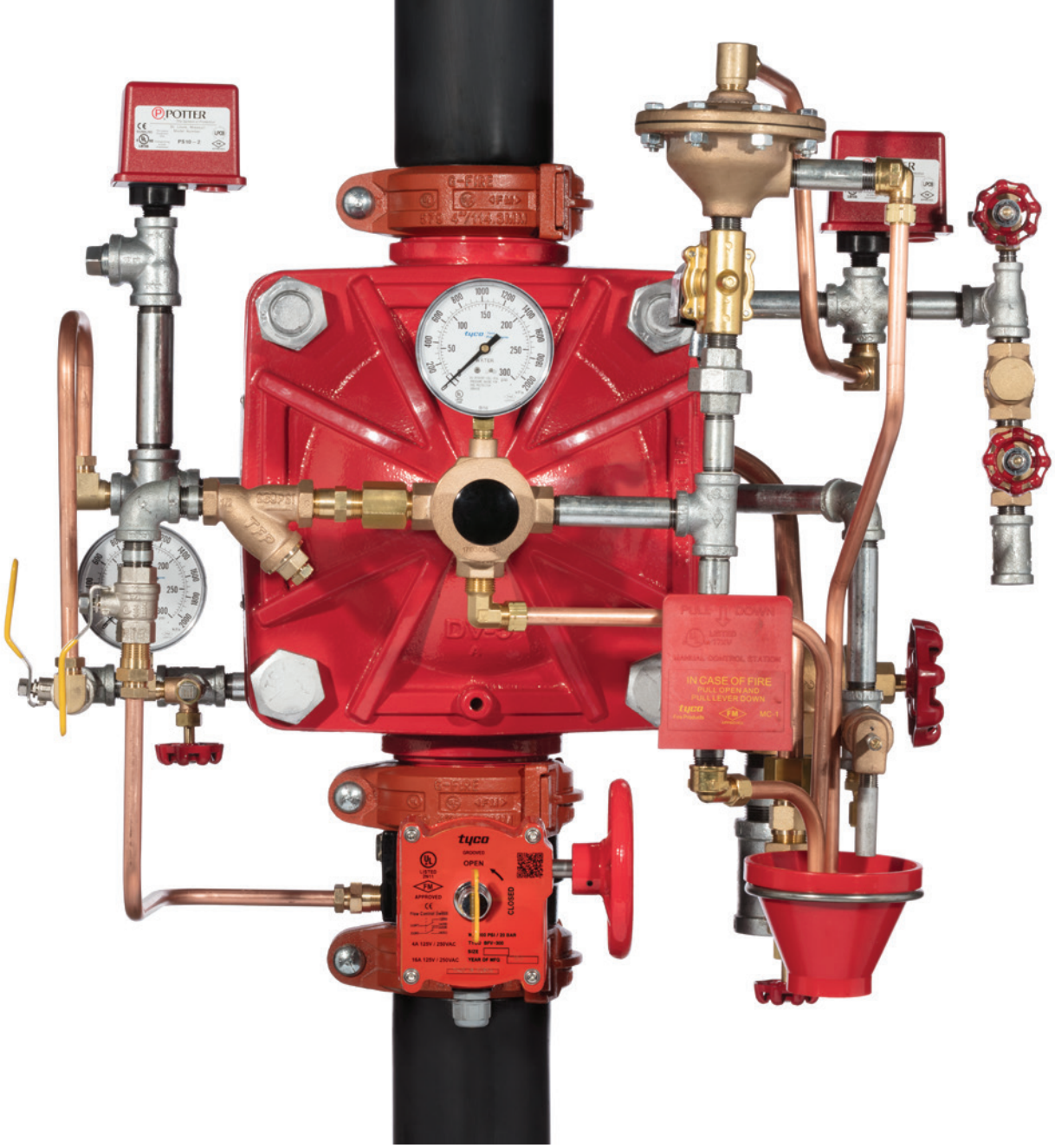
Approvals	TUV: Cert. AL990635692001 CE: 98/37/CEE · 89/336/CEE · 73/23/CEE · 93/68/CEE · EN60204/1 · EN1012/1 · EN60335/1 · 87/404/CEE
Tech Data Sheet	**Contact Tyco for details**

The CCS LPCB compressor is for use in dry, deluge and pre-action fire protection systems. ■ The compressor unit is an air-cooled double cylinder compressor pump, belt driven by an electric motor. ■ The CCS LPCB is supplied complete with hose, pressure control switch with on/off manual override, off loading valve, automatic thermal overload switch, tank pressure gauge, glycerine filled system gauge, combination orifice/fast system fill valve, electrical isolation box fitted with 1 metre cable and a 13 amp plug for single phase power, pressure reducer assembly, condensate drain valve and safety valve.



Model CCS LPCB Compressors							
Nominal Power Kw	Effec. Air Delivery	Ambient Temp. Range	Frequency	Thermal Protection	Noise Level	Compressor Conn.	Weight kg
1,1 / 1,5 PK	113 ltr./min. at 8 Bar	+5/+40° C	50 Hz	8A	78 dB [A]	Hose 2 mtr. + 1/2" male BSP	25

Model CCS LPCB Compressors									
Air Displacement	Rotation Speed	Voltage	Nom. Current	Degree of Protection	Volume Air Tank	Oil Content	Safety Valve	Pressure Switch	Pressure Gauge
183 ltr./min.	2850 rpm.	1 ph 230 VAC/ 3 ph 400 VAC	7,5 A	IP23	not included	0,1 ltr.	6 bar	3,5 bar, Delta P=0,7 bar (adjustable)	"0-10 bar, 100 mm, glycerine filled [BS.EN 837-1 Class 1 1998"



Deluge & Preaction Systems

For use in deluge and preaction fire sprinkler systems.

- Aircraft Hangars
- Refrigerated Areas
- Flammable Liquid Handling
- High-Hazard Installations Using Water as Extinguishing Agent
- Archives
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Deluge & Preaction Systems

DV-5A

Deluge Valve, External Resetting Diaphragm Style – 1½" thru 8"

The TYCO DV-5A Automatic Water Control Valves are diaphragm type valves that can be used in deluge fire protection systems. When properly trimmed, the double seat design of the DV-5A Valve also provides actuation of fire alarms upon system operation.

The diaphragm style design of the DV-5A Valve allows external resetting, providing for easy resetting of a deluge system without having to open a valve handhole cover to manually reposition a clapper and/or latch mechanism. Simply re-pressurizing the diaphragm chamber resets the valve.

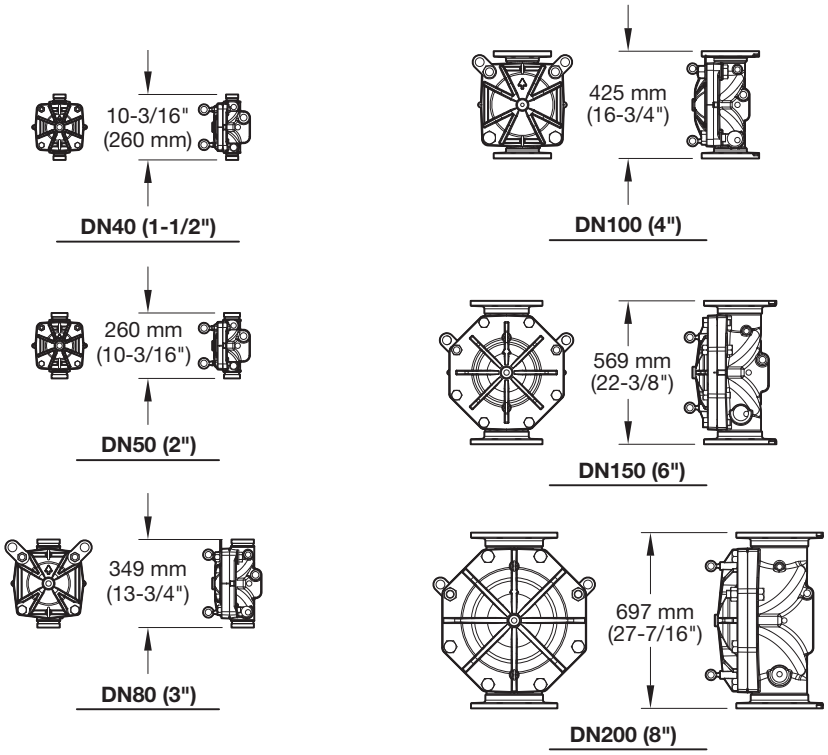
The DV-5A features internal and external coating of the valve to provide corrosion resistance. The external corrosion resistance of the epoxy coating permits the use of the DV-5A in corrosive atmospheres associated with many types of industrial processing plants and outdoor installations.

Size Range	DN40 thru DN200 (1½" thru 8")
Approvals	UL, C-UL Listed & FM, VdS & LPCB Approved
Maximum Service Pressure	1,4 bar (20 psi) to 20,7 bar (300 psi)
Types of System	**Deluge Systems:** - Wet Pilot Actuation - TFP1306 - Dry Pilot Actuation - TFP1306 - Electric Actuation - TFP1306 - Remote Reset - TFP1325 - Remote Reset Pressure Reducing - TFP1326 **Single Interlock Preaction Systems:** - Wet Pilot Actuation - TFP1425 - Dry Pilot Actuation - TFP1425 - Electric Actuation - TFP1425 **Double Interlock Preaction Systems:** - Electric/Pneumatic Actuation - TFP1450 - Electric/Electric Actuation - TFP1450 - Preaction Type A - TFP1485
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP1306, TFP1325, TFP1326, TFP1425, TFP1450, TFP1485**

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Available with deluge and single & double interlock preaction trim ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

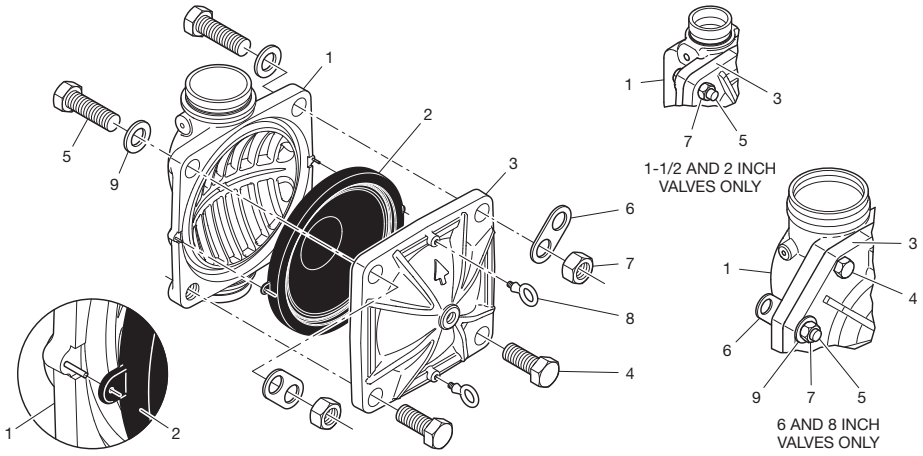
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DV-5A Deluge Valve



DV-5A Deluge Valve - Part No.							System Size		Approval & Listings			
T x T NPT	T x T ISO	G x G	F x F ANSI	F x F ISO	F x G ANSI	F x G ISO	DN	In	UL	FM	VdS	LPCB
530060015	530070015	530010015	–	–	–	–	40	1-1/2"	√	√	√	√
530060020	530070020	530010020	–	–	–	–	50	2"	√	√	√	√
–	–	530010030	530020030	530040030	530030030	530050030	80	3"	√	√	√	√
–	–	530010040	530020040	530040040	530030040	530050040	100	4"	√	√	√	√
–	–	530010060	530020060	530040060	530030060	530050060	150	6"	√	√	√	√
–	–	530010080	530020080	530040080	530030080	530050080	200	8"	√	√	√	√

DV-5A Parts List	
NR.	Description
1	Valve Body
2	Diaphragm
3	Diaphragm Cover
4	Hex Bolt, Short
5	Hex Bolt, Long
6	Lift Washer
7	Hex Nut
8	Hoist Ring
9	Flat Washer



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

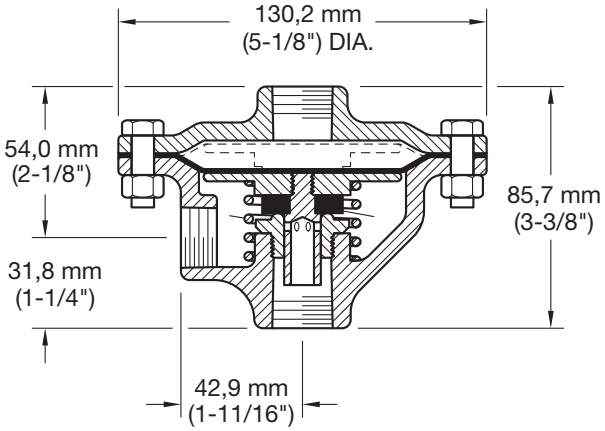
Deluge & Preaction Systems

DP-1

Dry Pilot Actuator

Approvals	UL, C-UL Listed & FM, LPCB Approved
Maximum Water Supply Pressure	17,2 bar (250 psi)
Maximum System Air (Nitrogen) Pressure	3,4 bar (50 psi)
Tech Data Sheet	**TFP1380**

Dry Pilot Actuator is an auxiliary releasing device ■ When the Model DP-1 actuates, it permits water pressure to be released from the deluge or preaction valve differential chamber, thereby allowing the deluge or preaction valve to open ■ Designed for Preaction Valves having double interlock electric/pneumatic release



Model DP-1 Dry Pilot Actuator							
Part No.	Pilot	Inlet	Outlet	Weight kg	Approval Listings		
					LPCB	FM	UL
522801001	1/2" NPT	1/2" NPT	1/2" NPT	3	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Solenoid Valve

For Releasing Service

Sizes	DN15 (½")
Approvals	UL, VdS, CSA, LPC, FM Approved & CE Certified
Working Pressure	1,4 - 20,7 bar (20 - 300psi)
Tech Data Sheet	**TFP2180**

Used in conjunction with an electric releasing panel that is listed or approved (as appropriate) for fire protection releasing service, and where the releasing panel is operated by listed or approved (as appropriate) electric fire detectors ■ Available in a variety of voltages for both normal and hazardous locations

Figure 1

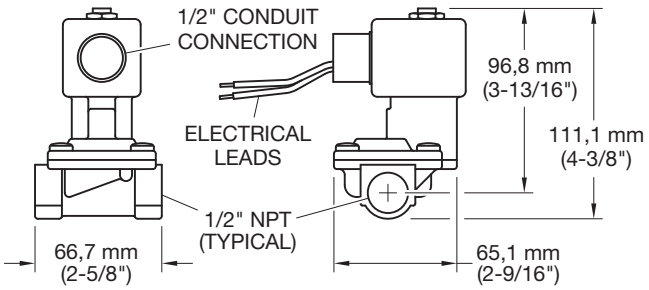


Figure 2

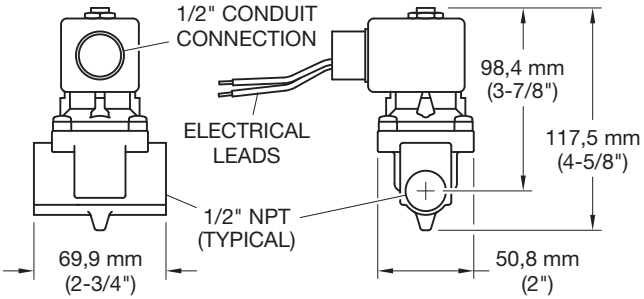


Figure 3

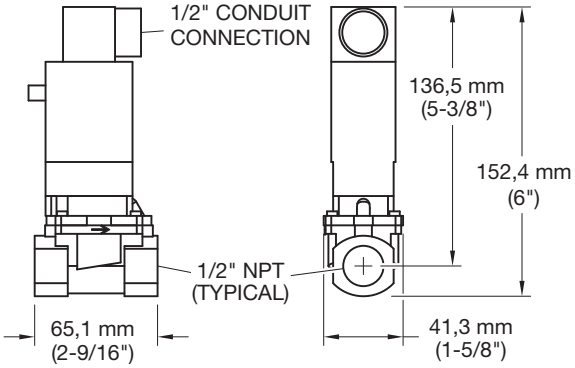
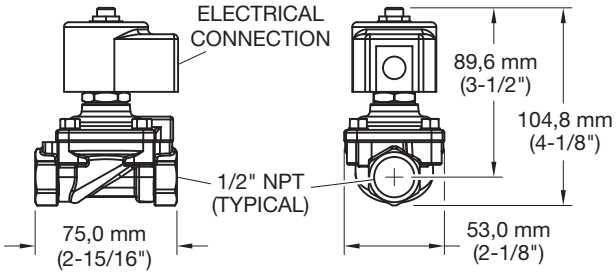


Figure 4



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Deluge & Preaction Systems

Solenoid Valve

Model FSV-1 Fail-Safe Valve															
Part No.	Enclosure Type (NEMA Rtings)	See Fig.	Working Water Pressure bar	Voltage	Watts	AC Volt-Amps		DC Amp	Approval Listings						
						Inrush[a]	Holding[b]		UL[1]	UL[3]	FM[3]	VdS[3]	LPC[3]	CSA[1]	CE[2]
For Use With DV-5A Deluge and Preaction System Trim															
522871110	Ordinary Location (2, 4, and 4X)	1	1,4-12,1	120 VAC, 60 Hz 110 VAC, 50 Hz	10	31	16	–	√					√	
522871024		1	1,4-12,1	24 VDC	10	–	–	0,41	√	√	√			√	
522871124		2	1,4-20,7	24 VDC	22	–	–	0,83	√	√	√	√	√	√	
522871048		1	1,4-12,1	48 VDC	10	–	–	0,21	√					√	
522871125		1	1,4-12,1	125 VDC	11	–	–	0,08	√					√	
522871015		1	1,4-12,1	250 VDC	10	–	–	0,04	√					√	
522871210	Hazardous Location (4, 4X, 7, and 9)	1	1,4-12,1	110/120 VAC	10	31	16	–	√					√	
522871224		1	1,4-12,1	24 VDC	10	–	–	0,41	√					√	
For Use With DV-5A Remote Resetting System Trim															
2460566	Ordinary Location	3	1,4-16,0	24 VDC	11	–	–	0,46		√		√			
For Use With DV-5A Preaction Type A System Trim															
522871124	Ordinary Location (2, 4, and 4X)	2	1,4-20,7	24 VDC	22	–	–	0,83	√			√		√	
2191866	Ordinary Location	4	1,4-15,0	24 VDC	8	–	–	0,33							√

1. UL Listed and CSA Certified under the name of Parker Hannifin Corporation, Skinner Valve Division.
2. CE conformance under the name of Parker Lucifer SA.
3. Approved as a trim component for release of the Model DV-5A or DV-5 Automatic Water Control Valves.

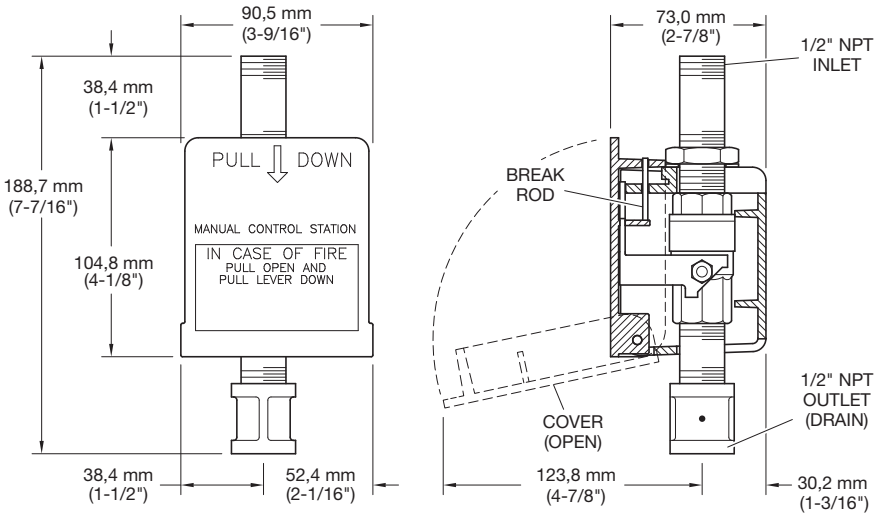
a. Current to start plunger moving
b. Current to hold plunger open

MC-1

Manual Control Station

Approvals	UL, C-UL Listed & FM Approved
Working Water Pressure	1,4 to 20,7 bar (20 to 300 psi)
Minimum Ambient Temperature	Dry Pilot Lines: -46°C (-50°F) Wet Pilot Lines: 4°C (40°F)
Tech Data Sheet	**TFP1382**

Provides a tamper resistant means for emergency release ■ Interconnection with the valves may be direct via hydraulic (wet) pilot line or indirect via pneumatic (dry) pilot line to a Model DP-1 Dry Pilot Actuator



Model MC-1 (MC-2) Manual Control Station				
Part No.	Model	Use With	Approval & Listings	
			FM	UL
522892001	MC-1		√	√
545002000	MC-2	DV-5A	√	√
922891008	Replacement Break Rod			

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

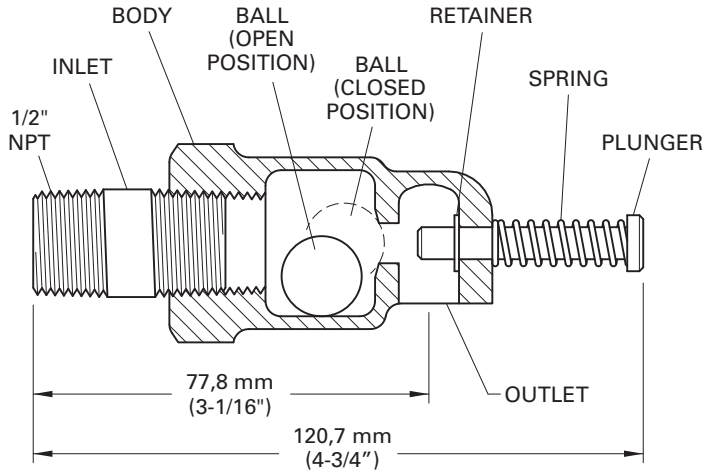
Deluge & Preaction Systems

AD-1

Automatic Drain Valve

Approvals	The Model AD-1 Automatic Drain Valve forms a part of the overall approvals given in the applicable technical data sheets for the TYCO Dry Pipe, Deluge, or Preaction Valves.
Maximum Working Pressure	17,2 bar (250 psi)
Tech Data Sheet	**TFP1630**

Designed for use with Tyco Dry Pipe, Deluge, and Preaction Valves ■ Provided as a trim component for these valves, the Model AD-1 Automatic Drain Valve is used to automatically drain the normally dry alarm lines



Model AD-1 Automatic Drain Valve			
Figure No.	Part No.		
	Black Steel Inlet	Galvanised Steel Inlet	Brass Inlet
AD-1	52-793-1-004	52-793-2-004	52-793-3-004

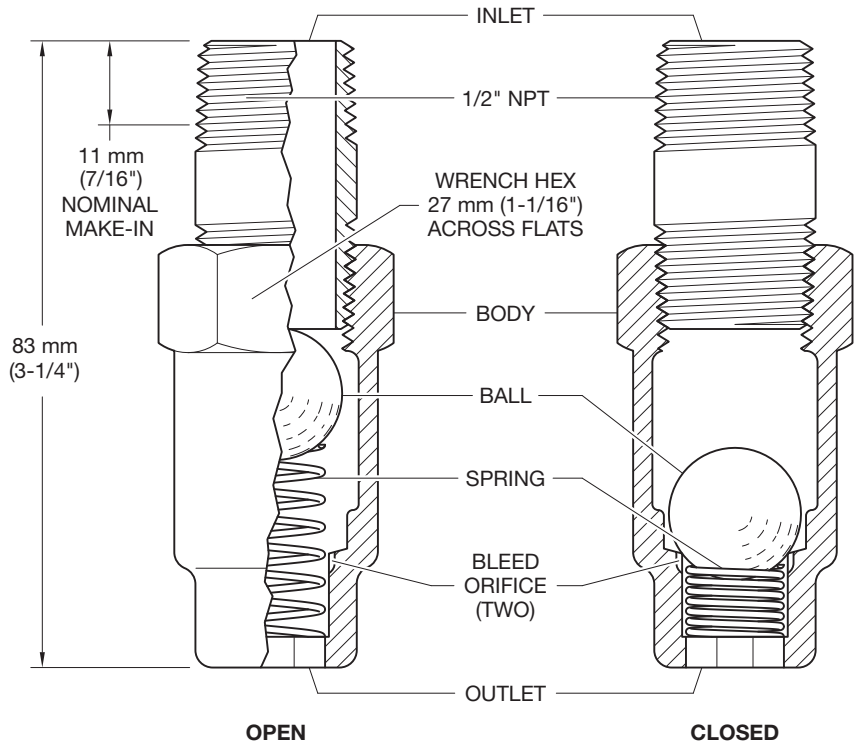
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

AD-2

Automatic Drain Valve

Approvals	UL Listed & FM Approved
Maximum Working Pressure	12,1 bar (175 psi)
Tech Data Sheet	TFP1632

Designed to automatically drain water from fire protection equipment supply connections that are to be maintained normally dry
Installed vertically and utilised with an open drain



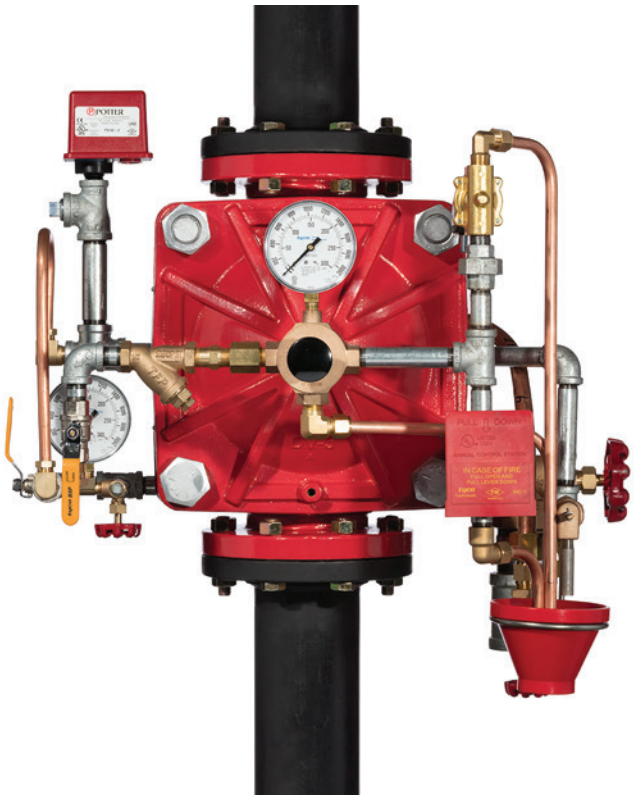
Model AD-2 Automatic Drain Valve			
Figure No.	Part No.	Approval & Listings	
		UL	FM
AD-2	52-789-1-004	√	√

Deluge & Preaction Systems

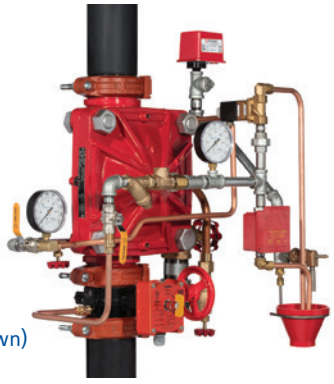
Deluge Systems

Wet Pilot, Dry Pilot, Electric Actuation, Remote Resetting or Remote Resetting Pressure Reducing

Deluge fire protection systems are normally used in special hazard installations where an entire area application of water or foam is required for protection. Applications may include flammable liquid handling and storage areas, aircraft hangars, and other high-hazard installations where water is the most effective extinguishing agent. Deluge systems employ open sprinklers or spray nozzles attached to a piping system. The system is connected to a water supply through the deluge valve. This valve is opened by the operation of a fire detection system installed in the same areas as the open sprinklers or nozzles. Deluge systems may be activated by wet or dry pilot sprinklers, or electric detectors. When the deluge valve opens, water flows into the piping system and discharges from all open sprinklers and nozzles.



(Electric Actuation Trim Shown)



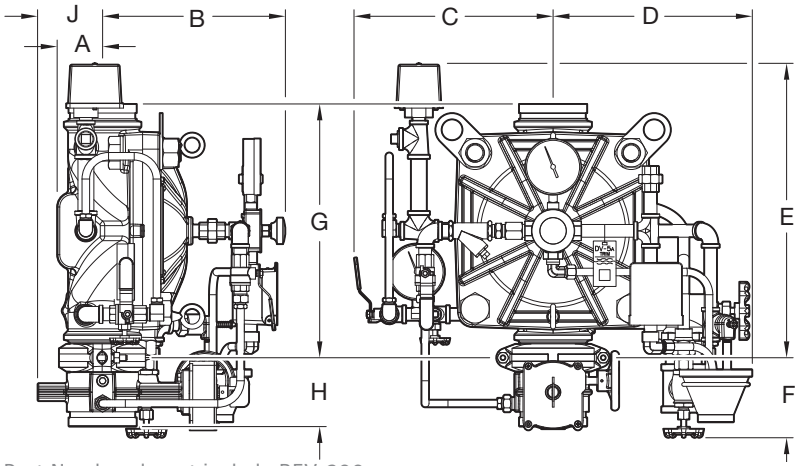
(Remote Resetting Trim Shown)

DV-5A Size Range	DN40 thru DN200 (1½" thru 8")
Approvals	UL, C-UL Listed & FM, VdS & LPCB Approved
Maximum Service Pressure	Wet Pilot Actuation: 20,7 bar (300 psi) Dry Pilot Actuation: 17,2 bar (250 psi) Electric Actuation: Per Solenoid, see TFP2180
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP1306 -** DV-5A Wet, Dry & Electric **TFP1325 -** DV-5A Remote Resetting **TFP1326 -** DV-5A Remote Resetting, Pressure Reducing

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Available with deluge and single & double interlock preaction trim ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

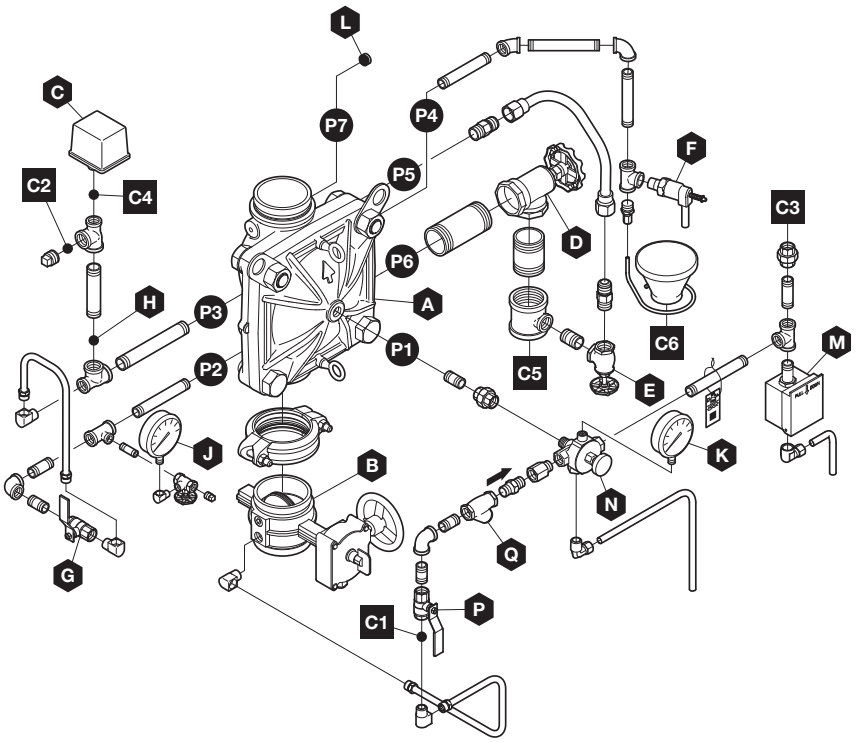
DV-5A Deluge Systems, Wet Pilot



Part Number do not include BFV-300

Wet Pilot Deluge System with Galvanised Trim - Part No.						System Size		Approval & Listings			
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM	VdS	LPCB
550170115	550110115	–	–	–	–	40	1-½"	√	√	√	√
550170120	550110120	–	–	–	–	50	2"	√	√	√	√
–	550110130	550150130	550140130	550130130	550120130	80	3"	√	√	√	√
–	550110140	550150140	550140140	550130140	550120140	100	4"	√	√	√	√
–	550110160	550150160	550140160	550130160	550120160	150	6"	√	√	√	√
–	550110180	550150180	550140180	550130180	550120180	200	8"	√	√	√	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-½"	71	246	264	323	411	185	259	203	31
50	2"	71	246	264	323	411	185	259	97	74
80	3"	76	277	305	320	455	147	351	99	91
100	4"	76	310	333	358	498	130	427	114	109
150	6"	114	345	381	417	566	86	569	150	145
200	8"	135	414	437	495	699	74	699	132	170

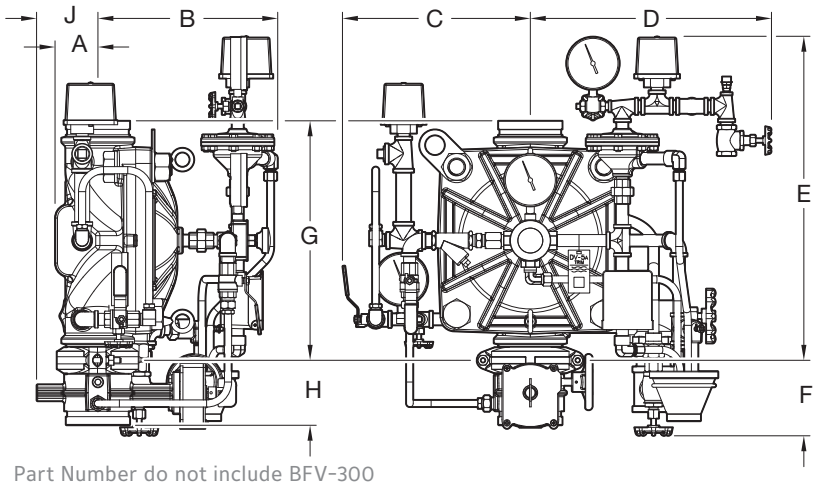


Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge (Optional)
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Wet Pilot Line Connection
C4	Waterflow Pressure Alarm Switch Connection
C5	Main Drain Connection
C6	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply Not Used for Deluge

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Deluge & Preaction Systems

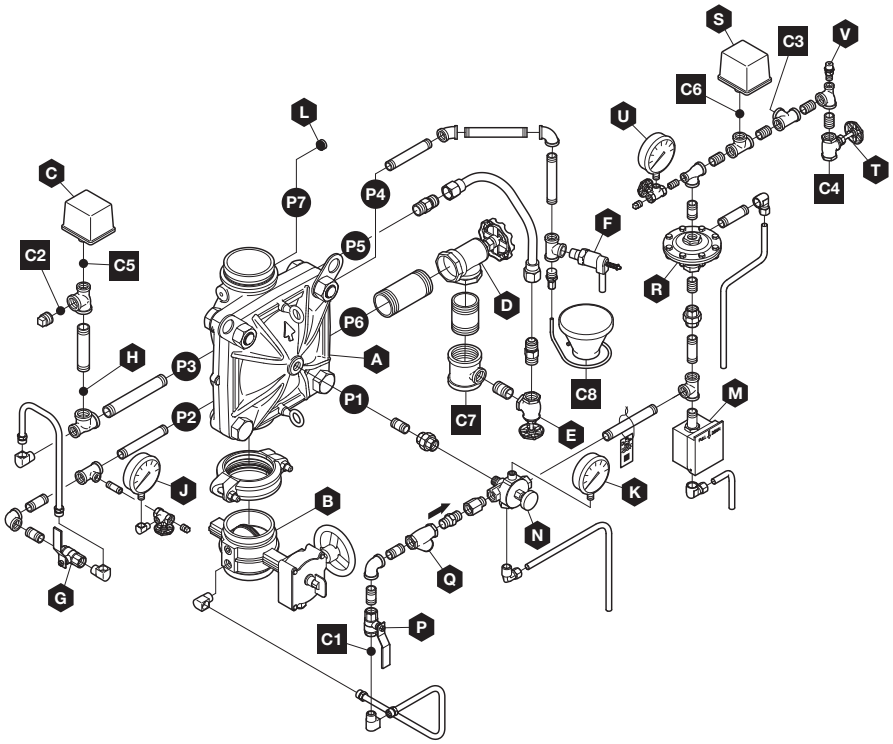
DV-5A Deluge Systems, Dry Pilot



Part Number do not include BFV-300

Dry Pilot Deluge System with Galvanised Trim - Part No.						System Size		Approval & Listings			
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM	VdS	LPCB
550170215	550110215	–	–	–	–	40	1-½"	√	√	√	√
550170220	550110220	–	–	–	–	50	2"	√	√	√	√
–	550110230	550150230	550140230	550130230	550120230	80	3"	√	√	√	√
–	550110240	550150240	550140240	550130240	550120240	100	4"	√	√	√	√
–	550110260	550150260	550140260	550130260	550120260	150	6"	√	√	√	√
–	550110280	550150280	550140280	550130280	550120280	200	8"	√	√	√	√

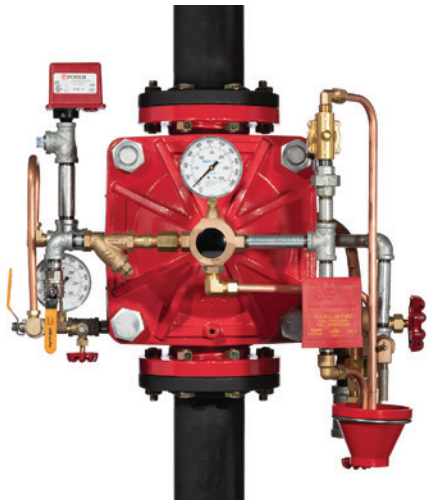
System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-½"	71	246	264	419	490	185	259	203	31
50	2"	71	246	264	419	490	185	259	97	74
80	3"	76	290	305	419	539	147	350	99	91
100	4"	76	323	333	419	577	130	427	114	109
150	6"	114	356	381	419	645	86	569	150	145
200	8"	135	427	437	495	711	74	699	132	170

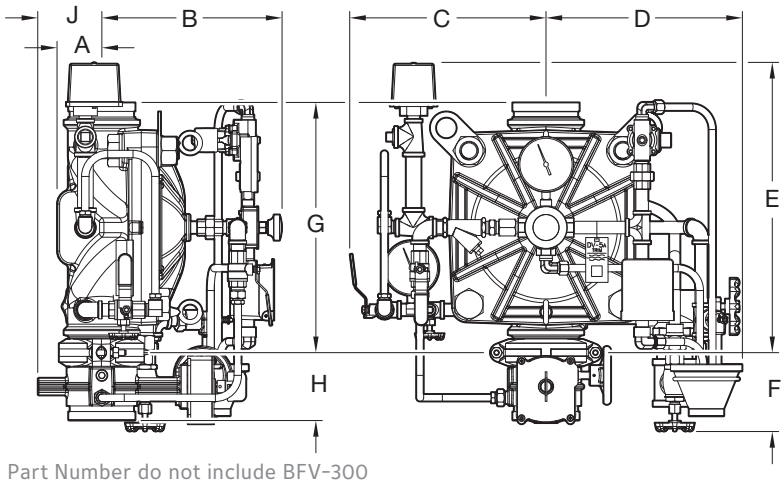


Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge (Optional)
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Dry Pilot Actuator
S	Dry Pilot Low Pressure Switch
T	Dry Pilot Air Supply Valve
U	Dry Pilot Line Gauge
V	Pressure Relief Valve
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Dry Pilot Line Connection
C4	Dry Pilot Air Supply Connection
C5	Waterflow Pressure Alarm Switch Connection
C6	Low Air Pressure Switch Connection
C7	Main Drain Connection
C8	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply Not Used for Deluge

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DV-5A Deluge Systems, Electric Actuation

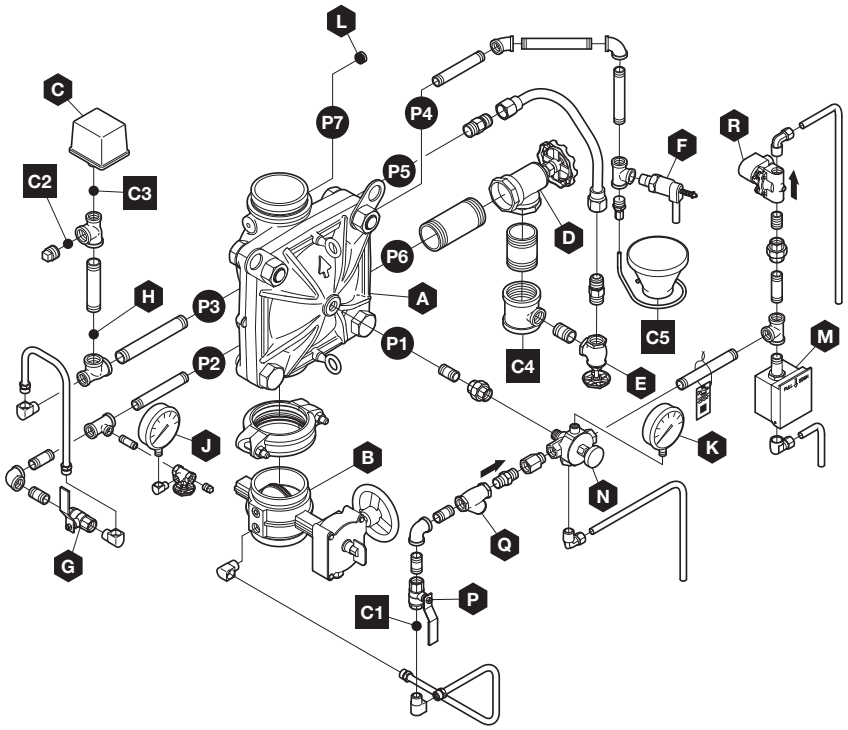




Part Number do not include BFV-300

Electric Actuation Deluge System with Galvanised Trim - Part No.						System Size		Approval & Listings			
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM	VdS	LPCB
550170315	550110315	–	–	–	–	40	1-½"	√	√	√	√
550170320	550110320	–	–	–	–	50	2"	√	√	√	√
–	550110330	550150330	550140330	550130330	550120330	80	3"	√	√	√	√
–	550110340	550150340	550140340	550130340	550120340	100	4"	√	√	√	√
–	550110360	550150360	550140360	550130360	550120360	150	6"	√	√	√	√
–	550110380	550150380	550140380	550130380	550120380	200	8"	√	√	√	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-½"	71	246	264	323	412	185	259	203	31
50	2"	71	246	264	323	412	185	259	97	74
80	3"	76	277	305	320	455	147	351	99	91
100	4"	76	310	333	358	498	129	427	114	109
150	6"	114	345	381	417	566	86	569	150	145
200	8"	135	414	437	495	699	74	699	132	170

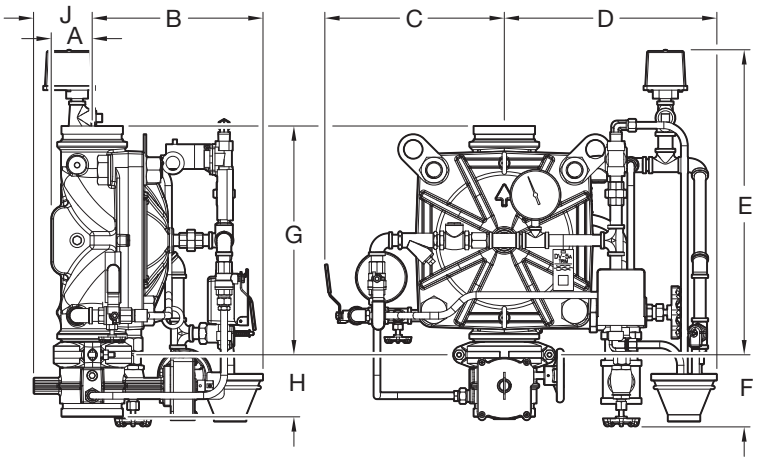


Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge (Optional)
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Solenoid Valve
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Waterflow Pressure Alarm Switch Connection
C4	Main Drain Connection
C5	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply Not Used for Deluge

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Deluge & Preaction Systems

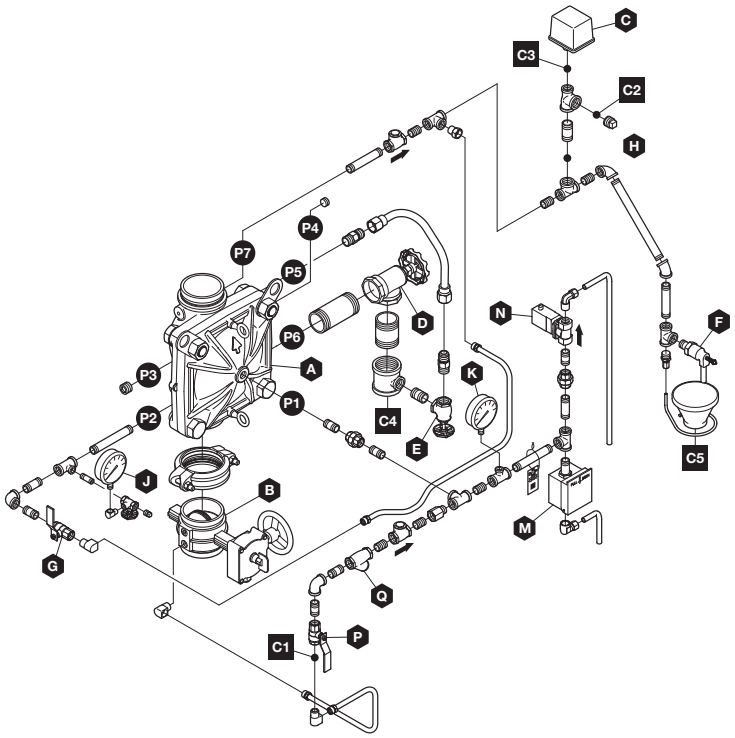
DV-5A Deluge Systems, Remote Resetting



Part Number do not include BFV-300

Remote Resetting Deluge System with Galvanised Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	VdS
550170415	550110415	–	–	–	–	40	1-½"	√	√
550170420	550110420	–	–	–	–	50	2"	√	√
–	550110430	550150430	550140430	550130430	550120430	80	3"	√	√
–	550110440	550150440	550140440	550130440	550120440	100	4"	√	√
–	550110460	550150460	550140460	550130460	550120460	150	6"	√	√
–	550110480	550150480	550140480	550130480	550120480	200	8"	√	√

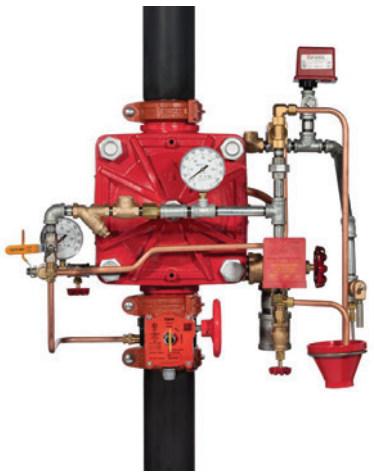
System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-½"	71	279	264	373	427	185	259	203	30
50	2"	71	279	264	373	427	185	259	97	74
80	3"	76	279	305	389	505	147	351	99	91
100	4"	76	323	333	424	566	130	427	114	109
150	6"	114	343	381	472	663	84	569	150	145
200	8"	135	424	437	493	777	74	699	132	170

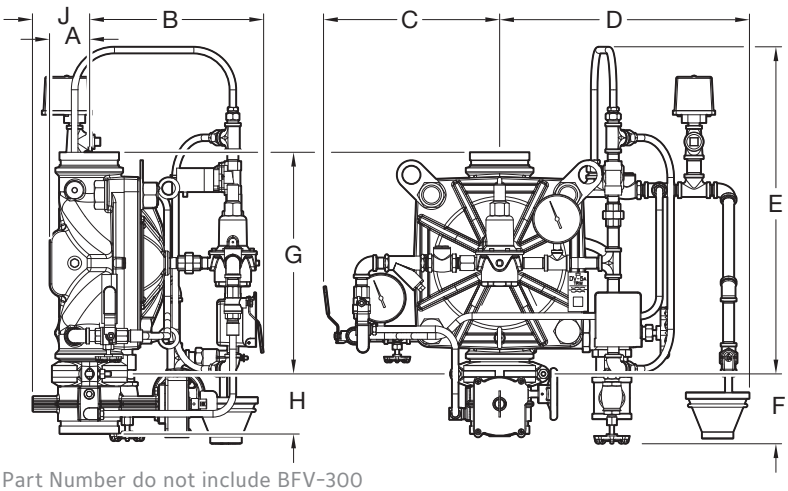


Pos.	Description
A	DV-5A Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	(Not Used)
M	Manual Control Station
N	Solenoid Valve
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Waterflow Pressure Alarm Switch Connection
C4	Main Drain Connection
C5	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Not Used
P4	Not Used
P5	System Drain
P6	Main Drain
P7	Alarm Actuation

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DV-5A Deluge Systems, Remote Resetting, Pressure Reducing

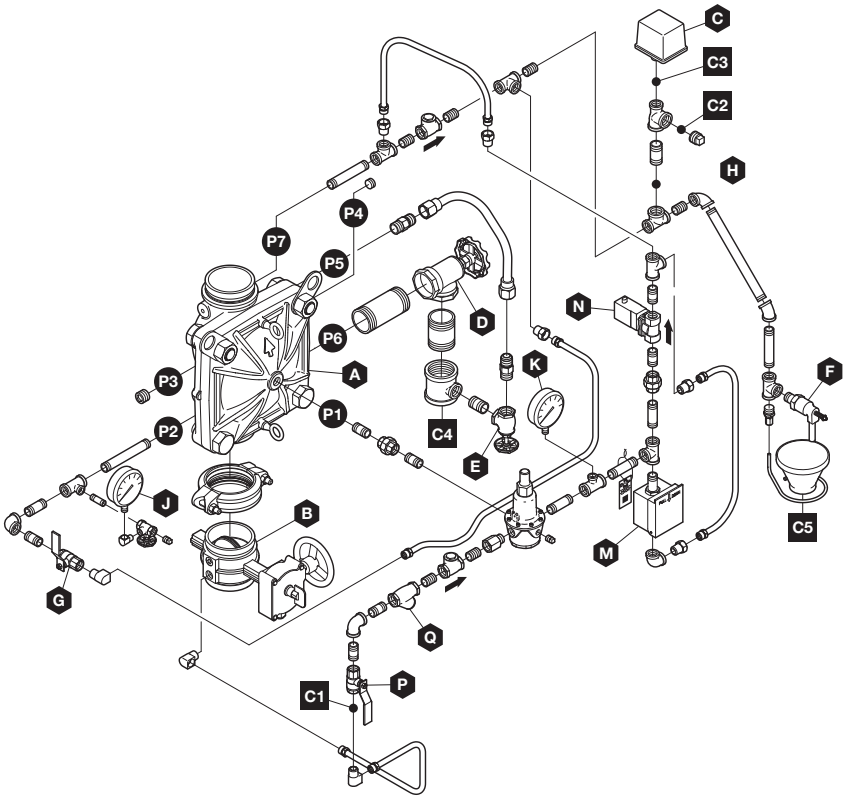




Part Number do not include BFV-300

Remote Resetting, Pressure Reducing Deluge System with Galvanised Trim - Part No.					System Size		Approval & Listings
G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL
550110530	550150530	550140530	550130530	550120530	80	3"	√
550110540	550150540	550140540	550130540	550120540	100	4"	√
550110560	550150560	550140560	550130560	550120560	150	6"	√
550110580	550150580	550140580	550130580	550120580	200	8"	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
80	3"	75	302	360	476	590	135	349	96	91
100	4"	76	335	360	480	628	133	425	115	109
150	6"	115	370	386	527	699	107	569	148	145
200	8"	136	436	448	550	780	6	697	133	170



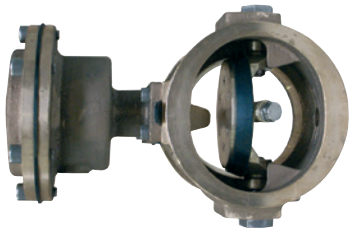
Pos.	Description
A	DV-5A Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	(Not Used)
M	Manual Control Station
N	Solenoid Valve
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Waterflow Pressure Alarm Switch Connection
C4	Main Drain Connection
C5	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Not Used
P4	Not Used
P5	System Drain
P6	Main Drain
P7	Alarm Actuation

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Deluge & Preaction Systems

Model BW

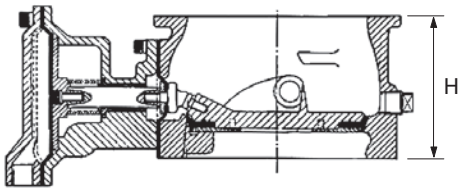
Wafer Butterfly Valve



Sizes	DN80 - DN200 (3" thru 8")
Approvals	LPCB
Body	Leaded Gunmetal
Maximum Service Pressure	16 bar (230 psi) Water, 4 bar (58 psi) Air
Tech Data Sheet	**Contact Tyco for details**

Model BW Deluge Wafer Butterfly Valve							
Part No.		DN		H mm	PN	Weight kg	Approval & Listings
Vertical	Horizontal						LPCB
02408	02411	80	3″	95	PN16	12	√
02333	02366	100	4″	115	PN16	14	√
02326	02353	150	6″	127	PN16	22	√
02370	02687	200	8″	160	PN16	38	√

Model BW Deluge Wafer Butterfly Valve Trim				
Part No.		DN		H mm
Standard	Air/Water			
02409K	03254K	80	3″	95
02334K	03200K	100	4″	115
02201K	03201K	150	6″	127
02371K	03202K	200	8″	160



Model BW Deluge Wafer Butterfly Valve - Pressure	
Pressure	
Water Bar	Air Bar
4 - 6	2,3
8 - 12	3,3
14 - 16	4,0

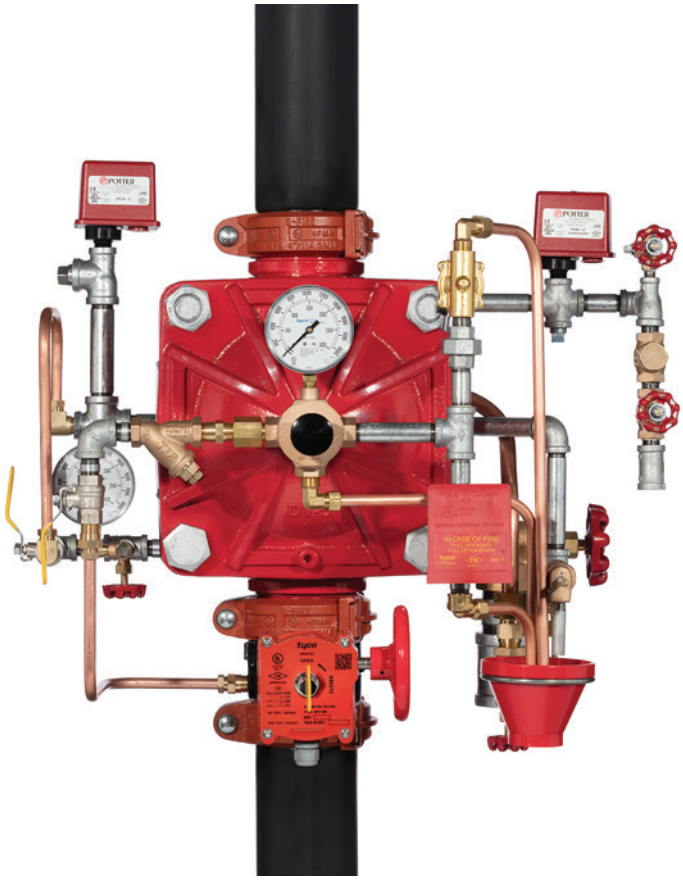
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Single Interlock Preaction Systems

Wet Pilot, Dry Pilot, or Electric Actuation

The DV-5A Supervised single interlock preaction systems are used to protect areas where there is danger of serious water damage that might result from damaged automatic sprinklers or piping. Typically, such areas include computer rooms, storage areas for valuable artifacts, libraries and archives. Also, preaction systems are effectively used to protect properties where a prealarm of a possible fire condition may allow time for fire extinguishment by alternate suppression means, prior to a sprinkler discharge. In the event the fire cannot be extinguished, the preaction sprinkler system will then perform as the primary fire protection system.

Single interlock preaction systems employ automatic sprinklers attached to a piping system containing 0,7 bar (10 psi) supervisory pressure, with a supplemental electric fire detection system installed in the same area as the sprinklers. Preaction systems with 0,7 bar (10 psi) supervisory pressure may also be activated by either wet or dry pilot sprinklers instead of electric detectors. Actuation of the fire detection system from a fire opens the deluge valve, allowing water to flow into the sprinkler piping system and to be discharged only from those sprinklers that have been operated by heat over the fire. Loss of supervisory pressure from the system piping as a result of damaged sprinklers or broken piping will activate a trouble alarm to indicate impairment of the system. The deluge valve will not open due to loss of supervisory pressure.

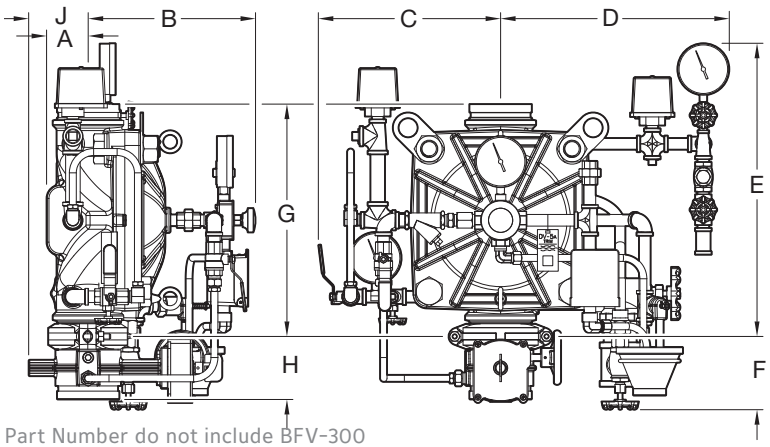


DV-5A Size Range	DN40 thru DN200 (1½" thru 8")
Approvals	UL, C-UL Listed & FM Approved
Maximum Service Pressure Preaction Single Interlock Trim	Wet Pilot Actuation: 20,7 bar (300 psi) Dry Pilot Actuation: 17,2 bar (250 psi) Electric Actuation: Per Solenoid, see TFP2180
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP1425**

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Deluge & Preaction Systems

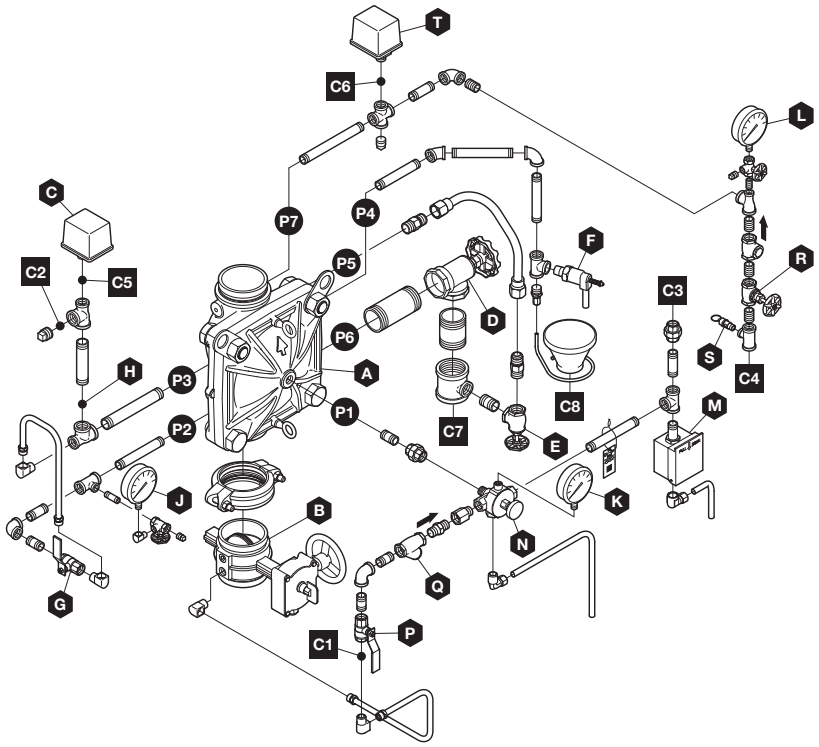
DV-5A Single Interlock Preaction System, Wet Pilot



Part Number do not include BFV-300

Single Interlock Wet Pilot Preaction System with Galvanised Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM
550171115	550111115	–	–	–	–	40	1-1/2"	√	√
550171120	550111120	–	–	–	–	50	2"	√	√
–	550111130	550151130	550141130	550131130	550121130	80	3"	√	√
–	550111140	550151140	550141140	550131140	550121140	100	4"	√	√
–	550111160	550151160	550141160	550131160	550121160	150	6"	√	√
–	550111180	550151180	550141180	550131180	550121180	200	8"	√	√

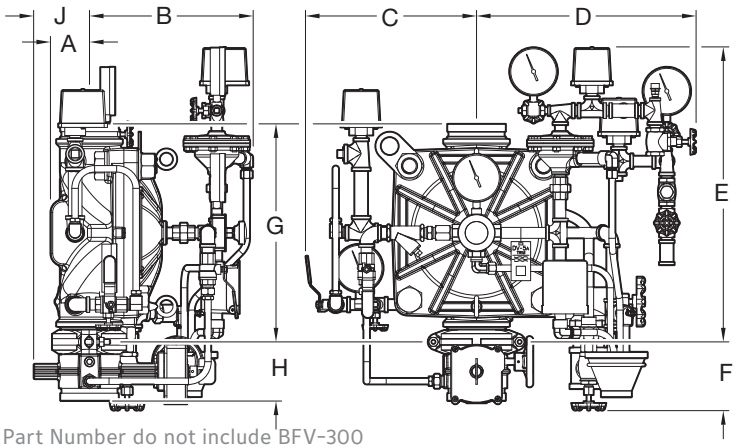
System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	246	264	399	411	185	259	203	31
50	2"	71	246	264	399	411	185	259	97	74
80	3"	76	277	305	414	470	147	351	99	91
100	4"	76	310	333	419	533	130	427	114	109
150	6"	114	345	381	467	630	86	569	150	145
200	8"	135	414	437	495	739	74	699	132	170



Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Supervisory Air Supply Valve
S	Supervisory Air Pressure Relief Valve
T	Supervisory Low Pressure Switch
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Wet Pilot Line Connection
C4	Supervisory Air Supply Connection
C5	Waterflow Pressure Alarm Switch Connection
C6	Low Air Pressure Alarm Switch
C7	Main Drain Connection
C8	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

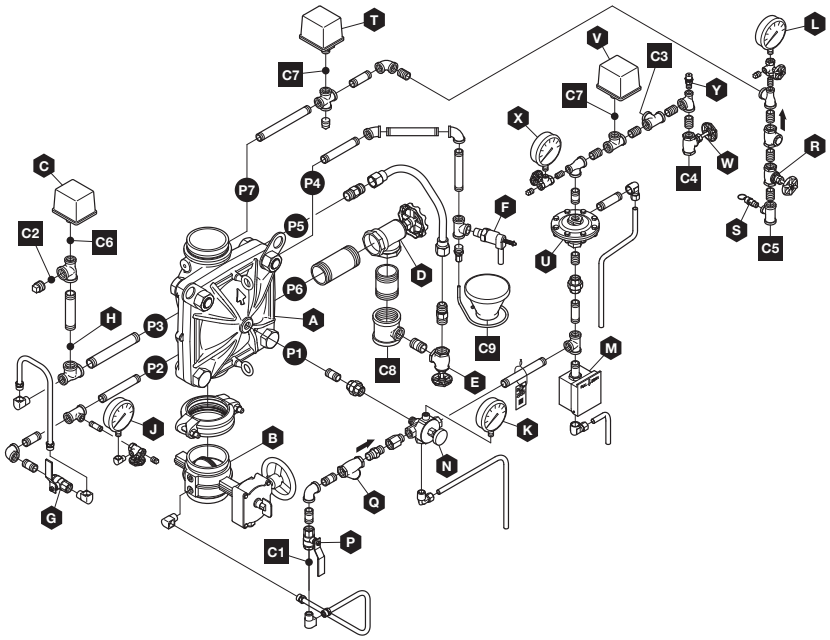
DV-5A Single Interlock Preaction System, Dry Pilot



Part Number do not include BFV-300

Single Interlock Dry Pilot Preaction System with Galvanised Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM
550171215	550111215	–	–	–	–	40	1-½"	√	√
550171220	550111220	–	–	–	–	50	2"	√	√
–	550111230	550151230	550141230	550131230	550121230	80	3"	√	√
–	550111240	550151240	550141240	550131240	550121240	100	4"	√	√
–	550111260	550151260	550141260	550131260	550121260	150	6"	√	√
–	550111280	550151280	550141280	550131280	550121280	200	8"	√	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	246	264	419	493	185	259	203	31
50	2"	71	246	264	419	493	185	259	97	74
80	3"	76	290	305	419	539	147	351	99	91
100	4"	76	323	333	419	574	130	427	114	109
150	6"	114	356	381	467	645	86	569	150	145
200	8"	135	427	437	495	739	74	699	132	170

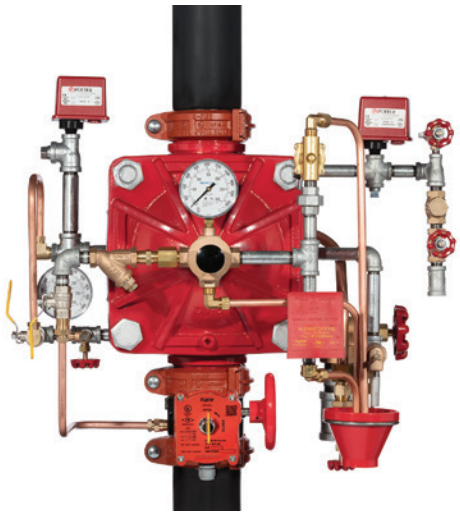


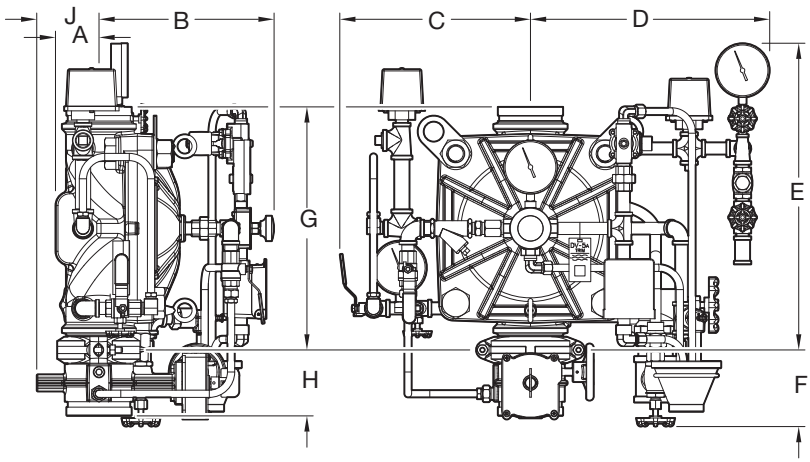
Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Supervisory Air Supply Valve
S	Supervisory Air Pressure Relief Valve
T	Supervisory Low Pressure Switch
U	Dry Pilot Actuator
V	Dry Pilot Low Pressure Switch
W	Dry Pilot Air Supply Valve
X	Dry Pilot Line Gauge
Y	Dry Pilot Air Pressure Relief Valve
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Dry Pilot Line Connection
C4	Dry Pilot Air Supply Connection
C5	Supervisory Air Supply Connection
C6	Waterflow Pressure Alarm Switch Connection
C7	Low Air Pressure Alarm Switch Connection
C8	Main Drain Connection
C9	Drip Funnel Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Deluge & Preaction Systems

DV-5A Single Interlock Preaction System, Electric Actuation

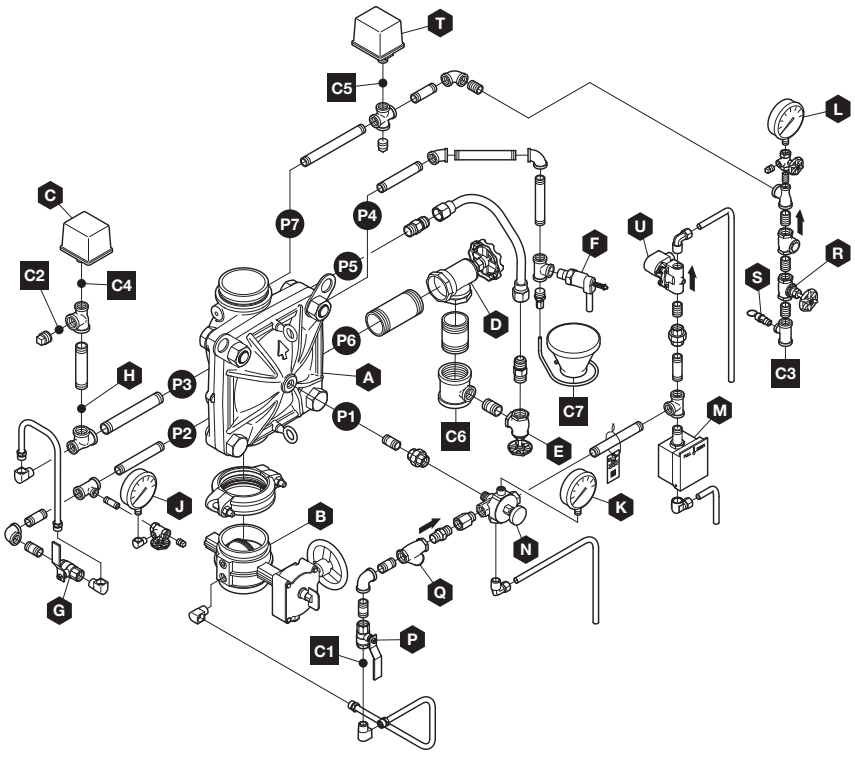




Part Number do not include BFV-300

Single Interlock Electric Actuation Preaction System with Galvanised Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM
550171315	550111315	–	–	–	–	40	1-½"	√	√
550171320	550111320	–	–	–	–	50	2"	√	√
–	550111330	550151330	550141330	550131330	550121330	80	3"	√	√
–	550111340	550151340	550141340	550131340	550121340	100	4"	√	√
–	550111360	550151360	550141360	550131360	550121360	150	6"	√	√
–	550111380	550151380	550141380	550131380	550121380	200	8"	√	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	246	264	399	411	185	259	203	31
50	2"	71	246	264	399	411	185	259	97	74
80	3"	76	277	305	414	470	147	351	99	91
100	4"	76	310	333	419	533	130	427	114	109
150	6"	114	345	381	467	630	86	569	150	145
200	8"	135	414	437	495	742	74	699	132	170



Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Supervisory Air Supply Valve
S	Supervisory Air Pressure Relief Valve
T	Supervisory Low Pressure Switch
U	Solenoid Valve
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Supervisory Air Supply Connection
C4	Waterflow Pressure Alarm Switch Connection
C5	Low Air Pressure Alarm Switch Connection
C6	Main Drain Connection
C7	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Double Interlock Preaction Systems

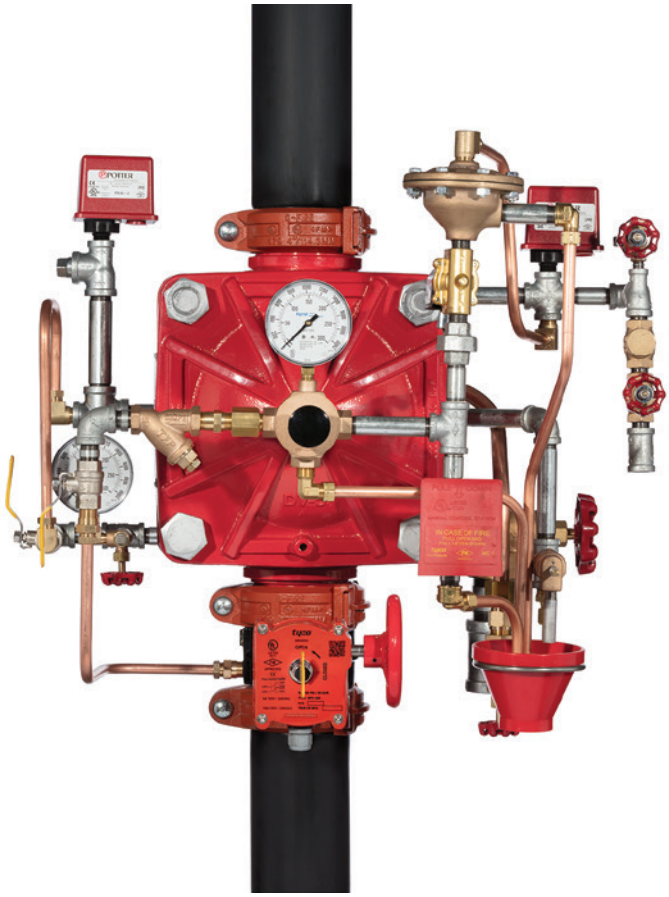
Electric/Electric or Electric/Pneumatic Actuation

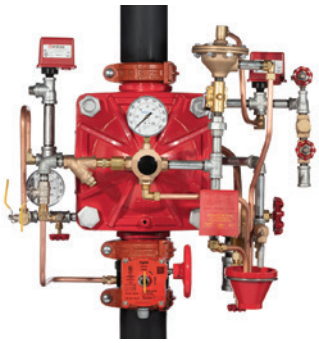
The DV-5A Double Interlock Preaction Systems are designed for applications such as refrigerated areas that require the maximum degree of protection against inadvertent flooding of the sprinkler system piping.

The double interlock system consists of a consists of a DV-5A deluge valve with integrated alarm port and with a releasing trim featuring both a solenoid valve and a dry pilot actuator in a series configuration. The system water pressure is isolated by the DV-5A valve from system air or nitrogen pressure that holds the dry pilot actuator closed. The solenoid valve remains closed until it is electrically energized by a deluge releasing panel that responds to the operation of a fire detection device.

In order to actuate the double interlock preaction system, two independent events, caused by a fire condition, must occur. The sprinkler system piping must lose air or nitrogen pressure due to the operation of one or more sprinklers, and the deluge releasing panel must energize and open the solenoid valve upon the operation of a fire detection device.

The double interlock system will operate only when both the dry pilot actuator and the solenoid valve are open at the same time. Opening of the dry pilot actuator only (for example: a forklift truck accidentally dislodges a sprinkler) or of the solenoid valve only (for example: accidental operation of an electric manual pull station) will cause an alarm, and will not trip the system or flood the sprinkler system piping.



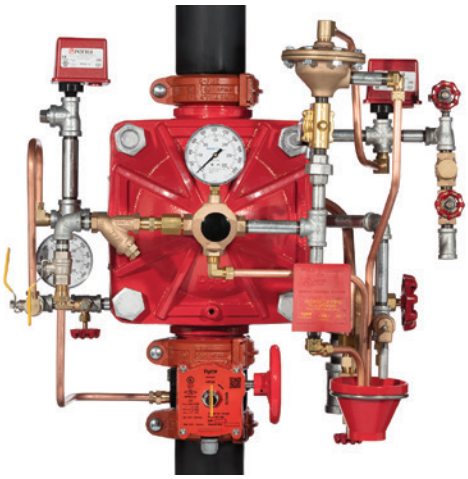


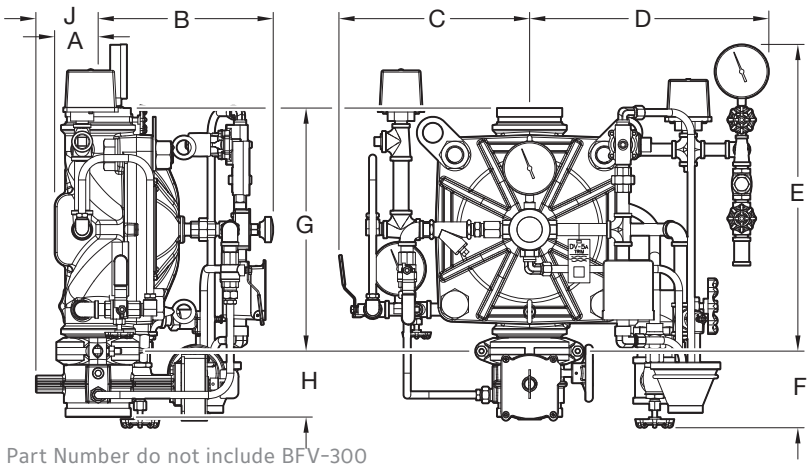
DV-5A Size Range	DN40 thru DN200 (1½" thru 8")
Approvals	UL, C-UL Listed & FM Approved
Preaction Double Interlock Trim	Electric/Electric Actuation, Electric/Pneumatic Actuation
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	**TFP1450**

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Deluge & Preaction Systems

DV-5A Double Interlock Preaction System, Electric/Electric Actuation

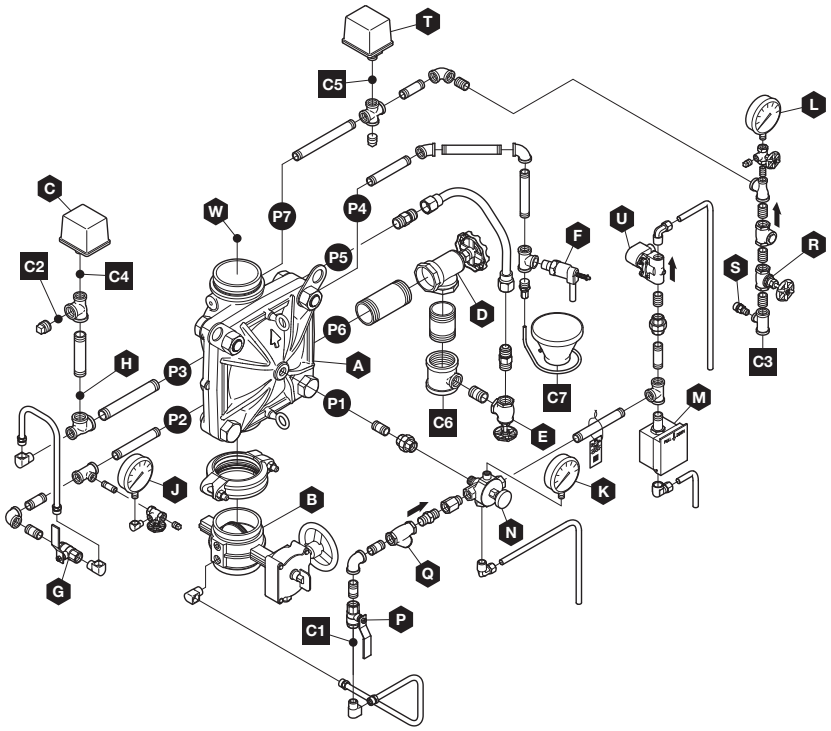




Part Number do not include BFV-300

Double Interlock Electric/ Electric Preaction System with Galvanised Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM
550171515	550111515	–	–	–	–	40	1-1/2"	√	√
550171520	550111520	–	–	–	–	50	2"	√	√
–	550111530	550151530	550141530	550131530	550121530	80	3"	√	√
–	550111540	550151540	550141540	550131540	550121540	100	4"	√	√
–	550111560	550151560	550141560	550131560	550121560	150	6"	√	√
–	550111580	550151580	550141580	550131580	550121580	200	8"	√	√

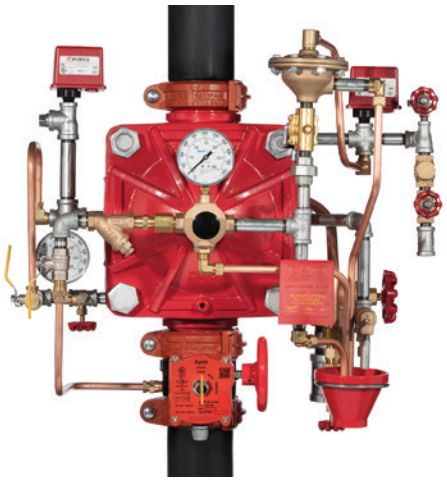
System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	246	264	399	412	185	259	203	31
50	2"	71	246	264	399	412	185	259	97	74
80	3"	76	277	305	414	470	147	351	99	91
100	4"	76	310	333	419	533	129	427	114	109
150	6"	114	345	381	467	630	86	569	150	145
200	8"	135	414	437	495	739	74	699	132	170

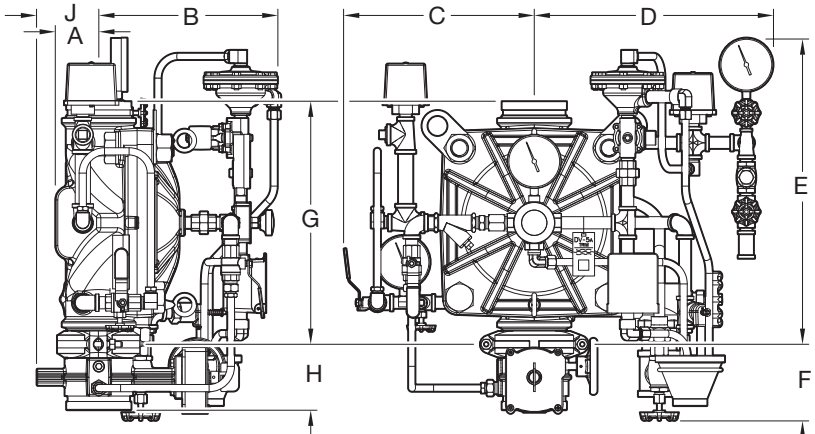


Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Air Supply Valve
S	Air Pressure Relief Valve
T	Low Pressure Switch
U	Solenoid Valve
V	Not Used
W	System Shut-Off Valve (Shown in Figure 4)
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Air Supply Connection
C4	Waterflow Pressure Alarm Switch Connection
C5	Low Air Pressure Switch Connection
C6	Main Drain Connection
C7	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DV-5A Double Interlock Preaction System, Electric/Pneumatic Actuation

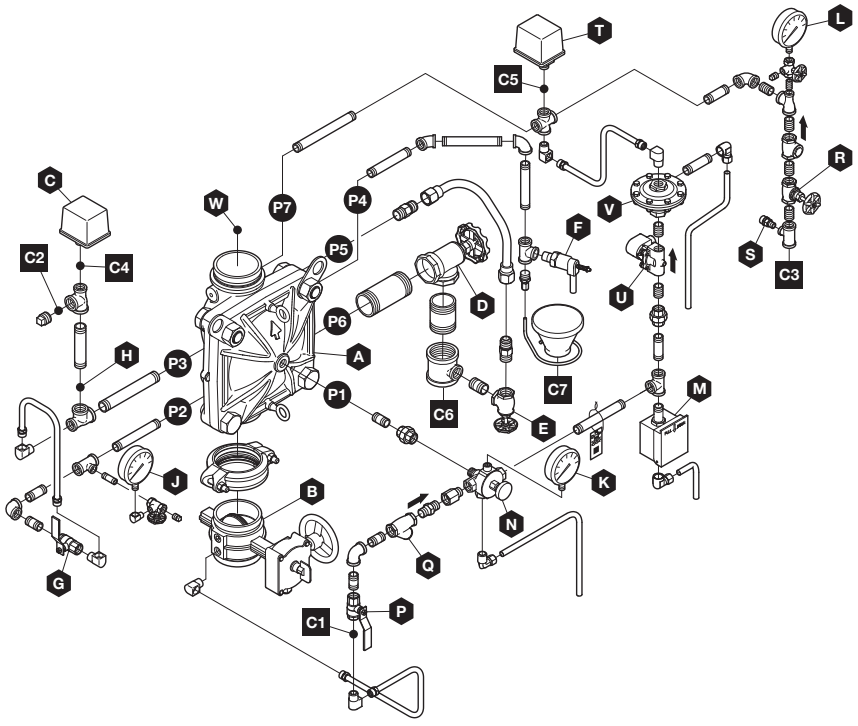




Part Number do not include BFV-300

Double Interlock Electric/ Pneumatic Preaction System with Galv. Trim - Part No.						System Size		Approval & Listings	
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	UL	FM
550171415	550111415	–	–	–	–	40	1-½"	√	√
550171420	550111420	–	–	–	–	50	2"	√	√
–	550111430	550151430	550141430	550131430	550121430	80	3"	√	√
–	550111440	550151440	550141440	550131440	550121440	100	4"	√	√
–	550111460	550151460	550141460	550131460	550121460	150	6"	√	√
–	550111480	550151480	550141480	550131480	550121480	200	8"	√	√

System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	246	264	399	427	185)	259	203	31
50	2"	71	246	264	399	427	185)	259	97	74
80	3"	76	290	305	414	472	147)	351	99	91
100	4"	76	323	333	419	533	129)	427	114	109
150	6"	114	356	381	467	630	86)	569	150	145
200	8"	135	427	437	495	739	74)	699	132	170

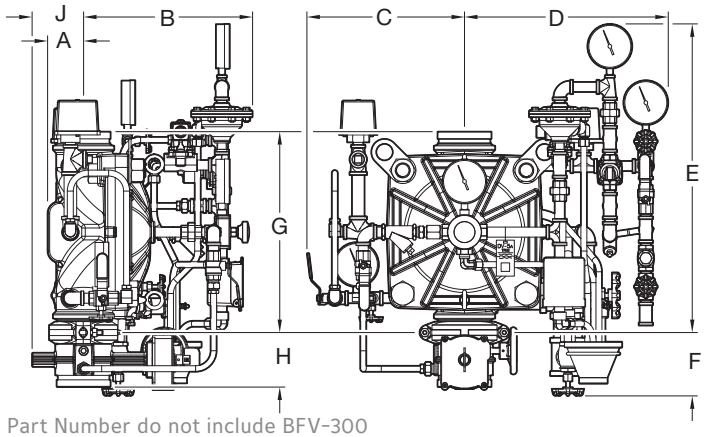


Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Air Supply Valve
S	Air Pressure Relief Valve
T	Low Pressure Switch
U	Solenoid Valve
V	Dry Pilot Actuator
W	System Shut-Off Valve
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Air Supply Connection
C4	Waterflow Pressure Alarm Switch Connection
C5	Low Air Pressure Switch Connection
C6	Main Drain Connection
C7	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Deluge & Preaction Systems

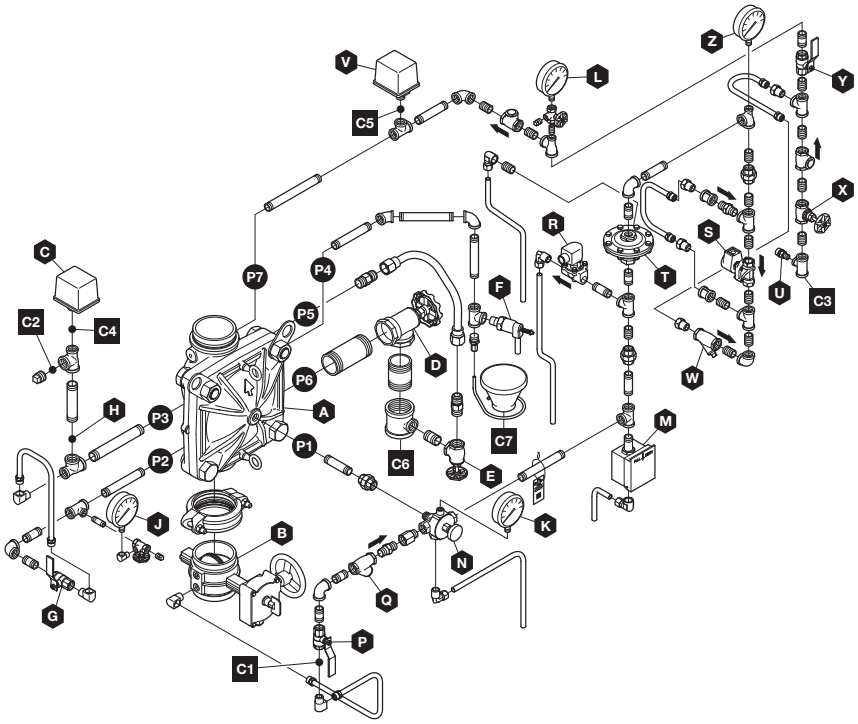
DV-5A Double Interlock Preaction System, Type A



Part Number do not include BFV-300

Type A Preaction System with Galvanised Trim - Part No.						System Size		Approval & Listings
T x T ISO	G x G	F x G ISO	F x F ISO	F x G ANSI	F x F ANSI	DN	In	VdS
550171615	550111615	–	–	–	–	40	1-½"	√
550171620	550111620	–	–	–	–	50	2"	√
–	550111630	550151630	550141630	550131630	550121630	80	3"	√
–	550111640	550151640	550141640	550131640	550121640	100	4"	√
–	550111660	550151660	550141660	550131660	550121660	150	6"	√
–	550111680	550151680	550141680	550131680	550121680	200	8"	√

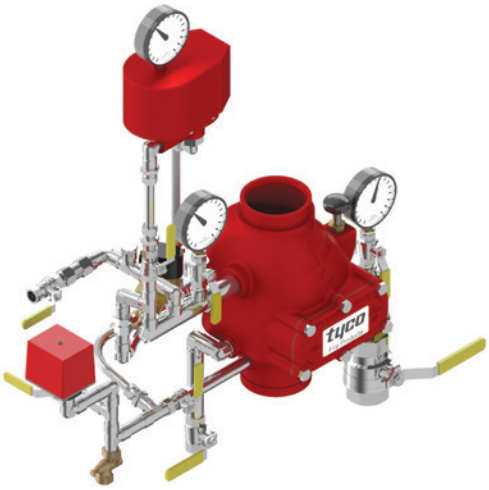
System Size		Dimension mm								
DN	In	A	B	C	D	E	F	G	H	J
40	1-1/2"	71	267	264	498	569	185	259	203	31
50	2"	71	267	264	498	566	185	259	97	74
80	3"	76	328	305	500	612	147	351	99	91
100	4"	76	361	333	480	650	130	427	114	109
150	6"	114	396	381	577	724	86	569	150	145
200	8"	135	414	437	615	785	74	699	132	170



Pos.	Description
A	DV-5a Valve
B	System Main Control Valve
C	Waterflow Pressure Switch
D	Main Drain Valve
E	System Drain Valve
F	Automatic Drain Valve
G	Alarm Test Valve
H	Alarm Control Valve (Optional)
J	Water Supply Gauge
K	Diaphragm Gauge
L	System Gauge
M	Manual Control Station
N	Manual Reset Actuator
P	Diaphragm Supply Valve
Q	Diaphragm Supply Strainer
R	Solenoid Valve (NC) De-Energized #1
S	Solenoid Valve (NC) Energized #2
T	Dry Pilot Actuator
U	Pressure Relief Valve
V	Supervisory Low Pressure Alarm Switch
W	Air Supply Strainer
X	Air Supply Control Valve "A"
Y	Air Supply Control Valve "B"
Z	Dry Pilot Gauge
C1	Diaphragm Supply Connection
C2	Water Motor Alarm Connection
C3	Air Supply Connection
C4	Waterflow Pressure Alarm Switch Connection
C5	Low Air Pressure Switch Connection
C6	Main Drain Connection
C7	Drip Funnel Drain Connection
P1	Diaphragm Chamber Supply
P2	Water Supply Pressure & Alarm Test
P3	Alarm Actuation
P4	Automatic Drain Valve
P5	System Drain
P6	Main Drain
P7	System Air Supply

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

DPV-1 Preaction, Type B Valves EN12845 Compliance



Standard Assembly:

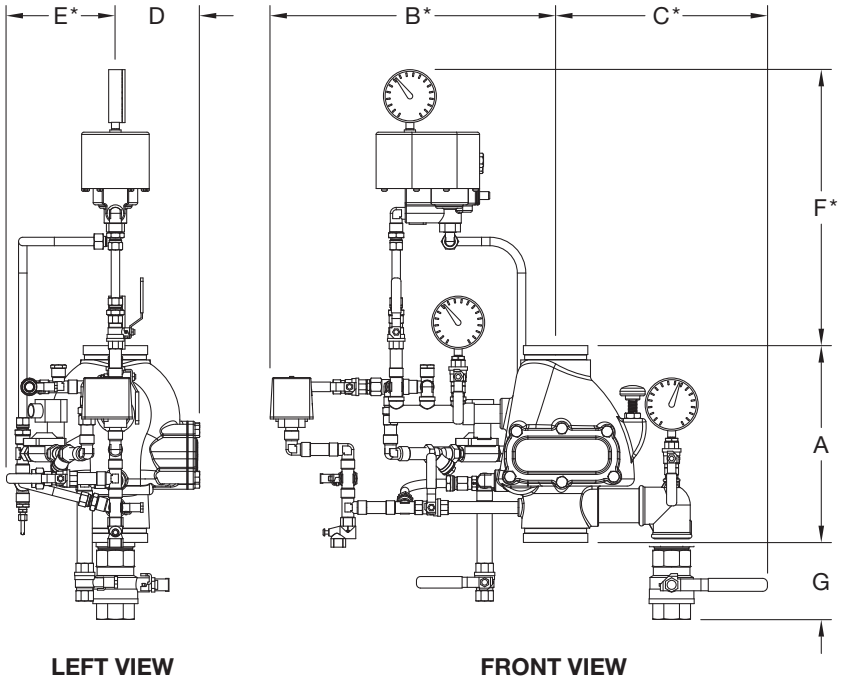
- Dry Alarm Valve: [DPV-1]
- Pressure Alarm Switch: [PS10-1]
- Actuation: Electric or Dry
- No Stop Valve
- Tech Data Sheet: TFP1486

*For Stop Valve see chapter 3, to be ordered separately

Type B Preaction System with Galvanised Trim - Part No.			System Size		Approval & Listings
G x G	F x G PN16	F x F PN16	DN	mm	VdS
2B49000101	2849000101	2749000101	100	4"	√
2B79000101	2879000101	2779000101	150	165,1	√
2B69000101	2869000101	2769000101	150	168,3 (6")	√

* This is a dry pipe system in which the alarm valve station is opened either by an automatic fire detection system or by the operation of the sprinklers. Independently of the response of the detectors, a pressure drop in the pipework causes the opening of the alarm valve

System Size		Dimension mm						
DN	In	A	B	C	D	E	F	G
100	4"	349	507	376	150	193	490	137
150	165,1mm	406	509	375	184	211	475	135
150	6" (168,3mm)	406	509	375	184	211	475	135



LEFT VIEW **FRONT VIEW**

Deluge & Preaction Systems

Spare Kits

Spare Kits

Tech Data Sheet

Contact Tyco for details

Replacement Parts

Part No.	Model	Size		Description	Weight kg
		DN	In.		
922001216	AV-1	65	2-1/2"	Clapper facing and handhole cover gasket	0.10
922001416		100	4"		0.12
922001620		150	6"		0.18
922001816		200	8"		0.20
922801008	DP-1			Diaphragm	0.10
923091204	DPV-1	65-80	2 1/2"-3	Cover gaskets, Clapper facing, O-rings and Grease	0.20
923091404		100	4"		0.24
923091604		150	6"		0.34
924141216	A-2 F302/F3021	50	2"	Cover gaskets, Clapper facing, O-rings and Grease	0.1
923021416		100	4"		0.24
923021617		150	6"		0.34
923111116	ACC-1	-	-	O-rings, Cover gasket, Plunger, Restriction and Exhaust valve	0.2
924771105	DV-5	40	1-1/2"	Diaphragm	0.3
924771107		50	2"		0.4
924771109		80	3"		0.4
924771101		100	4"		0.5
924771103		150	6"		0.6
924771111		200	8"		0.8
924701101	DV-1	100	4"	Cover gasket, Diaphragm and Clapper facing	0.5
924701102		150	6"		0.5
920201116	DV-2	50	2"	Body gasket, Diaphragm and Facing	0.15
03090	BW-DEL	80	3"	Clack Seal, Washers, Valve Port, Grease, Diaphragms and Screws	0.5
03091		100	4"		0.5
03092		150	6"		0.5
03093		200	8"		1
03090AL	BW-WET	80	3"	Clack Seal, Washers, Valve Port, Grease and Screws	0.5
03091AL		100	4"		0.5
03092AL		150	6"		0.5
03093AL		200	8"		1
33024	LW	100	4"	Clack Seal, Cover Gasket	0.2
33025		100	4"		0.2
33035		150	6"		0.3
33037		150	6"		0.5
33046		200	8"		0.4
33050		200	8"		0.5

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Fire Department Connections

Straight & 90° Fire Department Connections

Pattern	90° Side Outlet Pattern Straight -Through Siamese Pattern
Tech Data Sheet	Contact Tyco for details

Designed for fire department use to increase water pressure and volume to automatic sprinkler system or standard-pipe system

Hangers

Pipe Hangers

Tech Data Sheet	Contact Tyco for details

A full-line of pipe hangers for every fire protection need ■ Manufactured to meet the quality standards that the industry demands ■ Meet the requirements of NFPA 13

4410-RC

Releasing Panel

Approvals	UL Listed & FM Approved
Tech Data Sheet	Contact Tyco for details

Provides the interface between detection system, deluge or single or double interlocked preaction valve, and signaling circuit and devices in electrically actuated fire protection systems ■ Separate supervisory zone provided for electronic supervision of valve position, low pressure, and other critical fire protection functions ■ Can be used in single zone, cross zone, sequential or cross/sequential electric deduction systems ■ Has programming capability

Deluge & Preaction Systems

Notes

General Purpose Valves

Designed for use in wet pipe sprinkler systems.

- Prevention of Reverse Flow
- System Shut-off
- Sectional Control
- Closure of Fire Protection After Operation
- Facilitation of System Testing

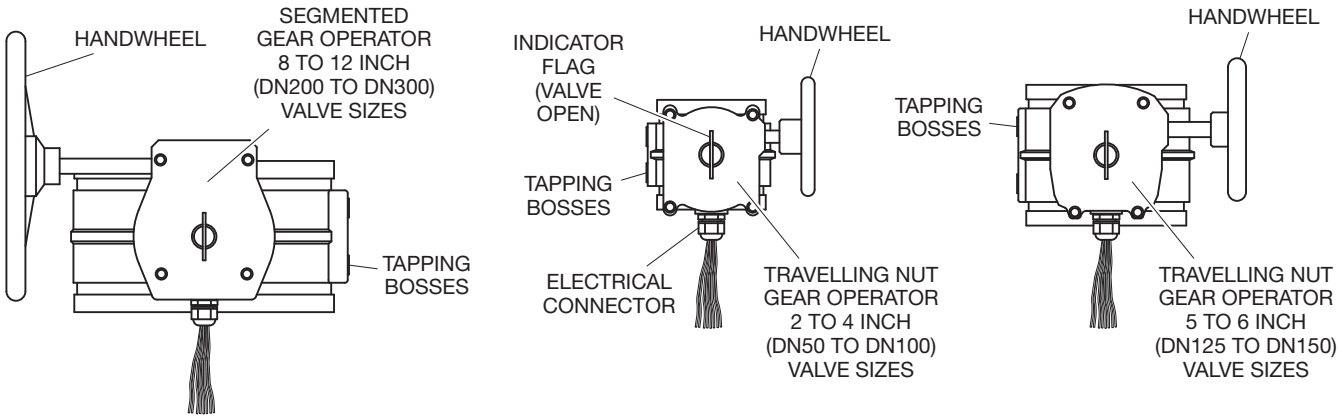
General Purpose Valves - Shut Off Valves

BFV-300

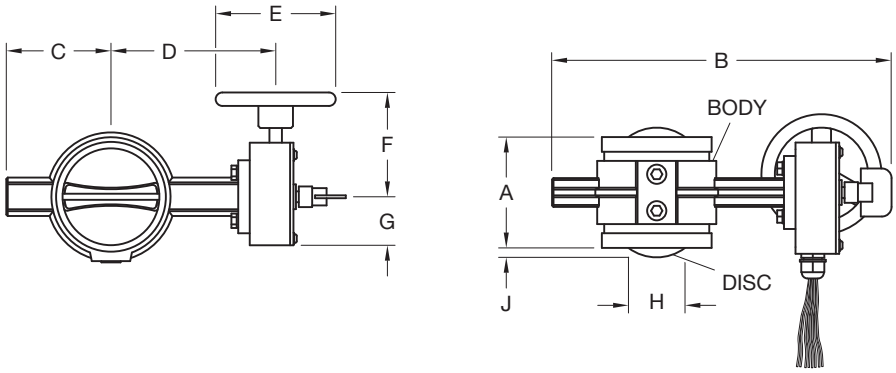
Grooved End Butterfly Valve

Sizes	DN50 thru DN300 (2" thru 12")
Approvals	UL & ULC Listed, FM Approved, CE Certified VdS Approved, Russian Fire Certificate CNPP R1 Listed – APSAD Listed by California State Fire Marshall
Maximum Working Pressure	**UL/FM Maximum Working Pressure** DN50 – DN200 (2" – 8") 20,7 bar (300 psi) DN250 – DN300 (10" – 12") 12,1 bar (175 psi) **VdS Maximum Working Pressure** DN50 – DN200 (2" – 8") 20,7 bar (300 psi) DN250 (10") 16,0 bar (232 psi) DN300 (12") 12,1 bar (175 psi)
Maximum Working Temperature	100°C (212°F) in accordance with UL 1091
End Connection	Groove x Groove
Tech Data Sheet	**TFP1511**

BFV-300 (Normally Open) and BFV-300C (Normally Closed) ■ Indicating type valves provide visual indication of whether the valve is open or closed ■ Suitable for use with grooved pipe couplings that are listed or approved for fire protection service



BFV-300 Grooved End Butterfly Valve



Model BFV-300/BFV-300C Grooved End Butterfly Valve													
Nominal Valve Size		Pipe O.D.		Dimension mm									Weight kg
DN	In	mm	In.	A	B	C	D	E	F	G	H	J	
50	2"	60,3	2.37"	96,4	270	72,5	124,5	125	108,6	50,5	0	0	4,9
65	2-½"	73,0	2.88"	96,4	297,8	85	139,8	125	108,6	50,5	0	0	5,9
65	76,1mm	76,1	3.00"	96,4	297,8	85	139,8	125	108,6	50,5	0	0	5,9
80	3"	88,9	3.50"	96,4	310,3	91	146,3	125	108,6	50,5	0	0	6,3
100	4"	114,3	4.50"	115,4	353,5	109	171,5	125	108,6	50,5	0	0	8,0
125	139,7mm	139,7	5.50"	148	406,6	131	201,5	150	147	58,9	0	0	11,9
125	5"	141,3	5.56"	148	406,6	131	201,5	150	147	58,9	0	0	11,9
150	165,1mm	165,1	6.50"	148	433,6	145	214,5	150	147	58,9	0	0	13,8
150	6"	168,3	6.63"	148	433,6	145	214,5	150	147	58,9	0	0	13,8
200	8"	219,1	8.63"	133	499,5	170	236	225	208	70	143,7	31,4	21,4
250	10"	273	10.75"	159	570,5	195	282	283	208	74	183,1	41,8	33,3
300	12"	323,9	12.75"	165	645	241,5	310	283	208	74	252,9	68,5	40,5

BFV-300/BFV-300C Grooved End Butterfly Valve Replacement Handwheel			
Nominal Valve Size		Part No.	
DN	In	BFV-300, Red Painted Handwheel	BFV-300C, Black Painted Handwheel
50 - 100	2" - 4"	59300SPHWHEEL10	59300SPHWHEEL10B
125 - 200	5" - 8"	59300SPHWHEEL20	59300SPHWHEEL20B
250 - 300	10" - 12"	59300SPHWHEEL30	59300SPHWHEEL30B

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

BFV-300 Grooved End Butterfly Valve

Model BFV-300/BFV-300C Grooved End Butterfly Valve with Internal Supervisory Switches													
Nominal Valve Size		Pipe O.D.		Max Pressure Bar	Part No.		Approval & Listings						
DN	In	mm	In.		BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	UL/ ULC	FM	EN	VdS	PAVUS	Fire Academy of Russia
50	2"	60,3	2.37"	20,7	59300G020WS	59300G020WSC	√	√		√	√	√	√
65	2-1/2"	73,0	2.88"	20,7	59300G025WS	59300G025WSC	√	√	√	√	√	√	√
65	76,1mm	76,1	3"	20,7	59300G026WS	59300G026WSC	√	√	√	√	√	√	√
80	3"	88,9	3.5"	20,7	59300G030WS	59300G030WSC	√	√	√	√	√	√	√
100	4"	114,3	4.5"	20,7	59300G040WS	59300G040WSC	√	√	√	√	√	√	√
125	139,7mm	139,7	5.5"	20,7	59300G056WS	59300G056WSC	√	√	√	√	√	√	√
125	5"	141,3	5.56"	20,7	59300G050WS	59300G050WSC	√	√	√	√	√	√	√
150	165,1mm	165,1	6.5"	20,7	59300G066WS	59300G066WSC	√	√	√	√	√	√	√
150	6"	168,3	6.63"	20,7	59300G060WS	59300G060WSC	√	√	√	√	√	√	√
200	8"	219,1	8.63"	20,7	59300G080WS	59300G080WSC	√	√	√	√	√	√	√
250	10"	273	10.75"	12,1	59300G100WS	59300G100WSC	√	√	√	√	√	√	√
300	12"	323,9	12.75"	12,1	59300G120WS	59300G120WSC	√	√		√	√	√	√

Model BFV-300/BFV-300C Grooved End Butterfly Valve with CNPP-APSAD Large 100 X 100mm Flag and Internal Supervisory Switches								
Nominal Valve Size		Pipe O.D.		Max Pressure Bar	Part No.		Approval & Listings	
DN	In	mm	In.		BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	VdS
50	2"	60,3	2.37"	20,7	59300G020AWS	59300G020AWSC	√	√
65	2-1/2"	73,0	2.88"	20,7	59300G025AWS	59300G025AWSC	√	√
65	76,1mm	76,1	3"	20,7	59300G026AWS	59300G026AWSC	√	√
80	3"	88,9	3.5"	20,7	59300G030AWS	59300G030AWSC	√	√
100	4"	114,3	4.5"	20,7	59300G040AWS	59300G040AWSC	√	√
125	139,7mm	139,7	5.5"	20,7	59300G056AWS	59300G056AWSC	√	√
125	5"	141,3	5.56"	20,7	59300G050AWS	59300G050AWSC	√	√
150	165,1mm	165,1	6.5"	20,7	59300G066AWS	59300G066AWSC	√	√
150	6"	168,3	6.63"	20,7	59300G060AWS	59300G060AWSC	√	√
200	8"	219,1	8.63"	20,7	59300G080AWS	59300G080AWSC	√	√
250	10"	273	10.75"	12,1	59300G100AWS	59300G100AWSC	√	√
300	12"	323,9	12.75"	12,1	59300G120AWS	59300G120AWSC	√	√

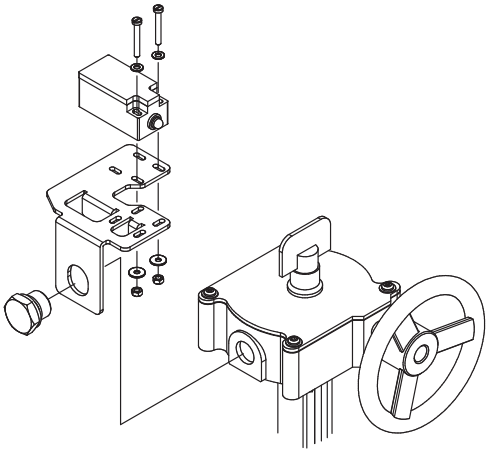
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

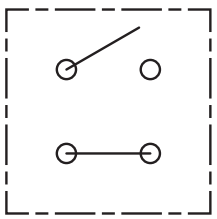
BFV-300 Grooved End Butterfly Valve

Model BFV-300/BFV-300C Grooved End Butterfly Valve without Internal Supervisory Switches												
Nominal Valve Size		Pipe O.D.		Max Pressure Bar	Part No.	Approval & Listings						
DN	In	mm	In.			CE	UL/ ULC	FM	EN	VdS	PAVUS	Fire Academy of Russia
50	2"	60,3	2.37"	20,7	59300G020NS	√	√		√	√	√	√
65	2-½"	73,0	2.88"	20,7	59300G025NS	√	√	√	√	√	√	√
65	76,1mm	76,1	3.00"	20,7	59300G026NS	√	√	√	√	√	√	√
80	3"	88,9	3.50"	20,7	59300G030NS	√	√	√	√	√	√	√
100	4"	114,3	4.50"	20,7	59300G040NS	√	√	√	√	√	√	√
125	139,7mm	139,7	5.50"	20,7	59300G056NS	√	√	√	√	√	√	√
125	5"	141,3	5.56"	20,7	59300G050NS	√	√	√	√	√	√	√
150	165,1mm	165,1	6.50"	20,7	59300G066NS	√	√	√	√	√	√	√
150	6"	168,3	6.63"	20,7	59300G060NS	√	√	√	√	√	√	√
200	8"	219,1	8.63"	20,7	59300G080NS	√	√	√	√	√	√	√
250	10"	273,0	10.75"	12,1	59300G100NS	√	√	√	√	√	√	√
300	12"	323,9	12.75"	12,1	59300G120NS	√	√		√	√	√	√

Model BFV-300 Grooved End Butterfly Valve Without Internal Supervisory Switches Accessory External Supervisory Switches And Mounting Brackets						
Nominal Valve Size		Gear Operator Type	Part No.			
DN	In		Mounting Bracket with Mounting Bolts	Bernstein I88-IP65 Regular Switch	Bernstein I88-IP65 LED Switch 24V	Bernstein GC-SU1Z Ex IP-66/67 ATEX (Ex II2G Ex dIIC T6 Gb) Switch
50	2"	Travelling Nut	59300SPBRACKET10	59300SPSW	59300SPSWLED	59300SPSWATEX
65	2-½"					
65	76,1mm					
80	3"					
100	4"					
125	139,7mm		59300SPBRACKET20			
125	5"					
150	165,1mm					
150	6"					
200	8"	Segmented Gear	59300SPBRACKET25			
250	10"		59300SPBRACKET30			
300	12"					

External Supervisory Switches And Mounting Brackets





Bernstein Switch Wiring Diagram

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

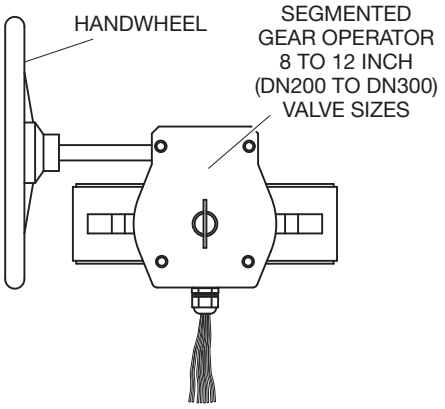
General Purpose Valves - Shut Off Valves

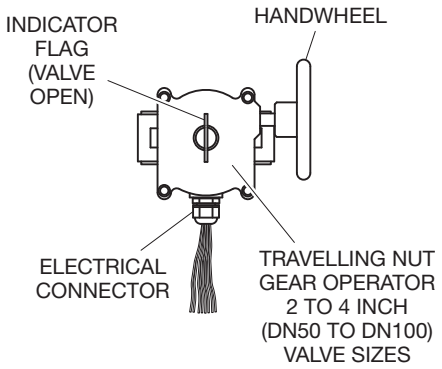
BFV-300

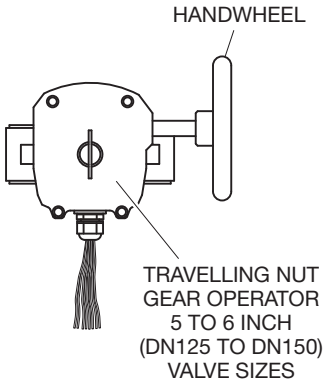
Wafer Style Butterfly Valve

Sizes	DN50 thru DN300 (2" thru 12")
Approvals	UL & ULC Listed, FM Approved, CE Certified VdS Approved, Russian Fire Certificate CNPP R1 Listed – APSAD Listed by California State Fire Marshall
Maximum Working Pressure	**UL/FM Maximum Working Pressure** DN50 – DN200 (2" – 8") 20,7 bar (300 psi) DN250 – DN300 (10" – 12") 12,1 bar (175 psi) **VdS Maximum Working Pressure** DN50 – DN200 (2" – 8") 20,7 bar (300 psi) DN250 (10") 16,0 bar (232 psi) DN300 (12") 12,1 bar (175 psi)
Maximum Working Temperature	100°C (212°F) in accordance with UL 1091
End Connection	Wafer
Tech Data Sheet	**TFP1516**

Suitable for use installation between ANSI Class 125 or 150 flanges or PN10/16 flanges without the need for flange gaskets
Indicating type valves provide visual indication of whether the valve is open or closed

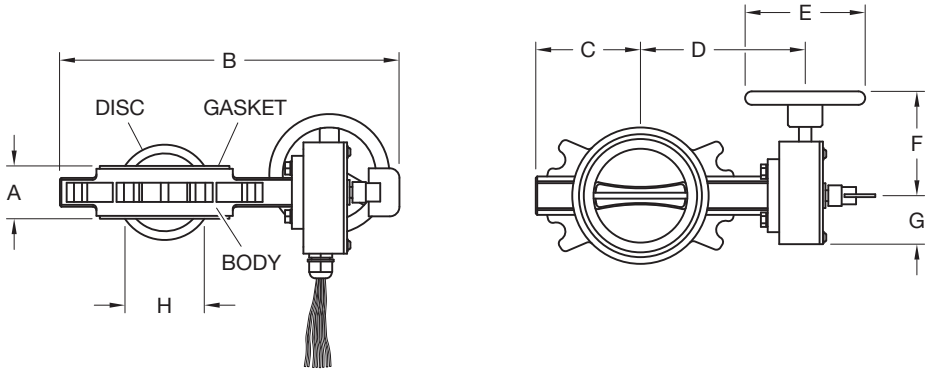






Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

BFV-300 Wafer Style Butterfly Valve



Model BFV-300/BFV-300C Wafer Style Butterfly Valve										
Nominal Valve Size		Dimension mm								Weight kg
DN	In	A	B	C	D	E	F	G	H	
50	2"	38	270,0	72,5	124,5	125	108,6	50,5	34	6,1
65	2-½"	46	296,5	85	138,5	125	108,6	50,5	41,9	6,1
80	3"	46	311,7	91	147,7	125	108,6	50,5	59,5	6,4
80	–	46	311,7	91	147,7	125	108,6	50,5	59,5	6,4
100	4"	55	353,5	109	171,5	125	108,6	50,5	82,6	6,8
125	5"	61	406,6	131	201,5	150	147	58,9	101,6	11,9
150	6"	61	433,6	145	214,5	150	147	58,9	132,6	11,1
200	8"	63	498,5	170	236	225	208	70	185,4	20
200	–	63	498,5	170	236	225	208	70	185,4	20
250	10"	74	584,5	210	282	283	208	74	230	29
300	12"	77	639,0	241,5	310	283	208	74	292,8	39,2

BFV-300/BFV-300C Wafer Style Butterfly Valve Replacement Handwheel		
Nominal Valve Size		Part No. Handwheel
DN	In	
50 - 100	2" - 4"	59300SPHWHEEL10
125 - 200	5" - 8"	59300SPHWHEEL20
250 - 300	10" - 12"	59300SPHWHEEL30

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

BFV-300 Wafer Style Butterfly Valve

Model BFV-300 Wafer Style Butterfly Valve with Internal Supervisory Switches													
Nominal Valve Size		Flange Face	Max Pressure Bar	Part No.		Approval & Listings							
DN	In			BFV-300 with Internal Switch	BFV-300 without Internal Switch	CE	UL/ ULC	FM	VdS	EN	PAVUS	Fire Academy of Russia
50	2"	ANSI 16.5, BS PN16	20,7	59300W020WS	59300W020NS	√	√		√	√	√	√
65	2-1/2"	ANSI 16.5, BS PN16	20,7	59300W025WS	59300W025NS	√	√	√	√	√	√	√
80	3"	ANSI 16.5	20,7	59300W030WS	59300W030NS	√	√	√	√	√	√	√
80	–	BS PN16	20,7	59300W036WS	59300W036NS	√	√	√	√	√	√	√
100	4"	ANSI 16.5, BS PN16,AS 2129 Table E	20,7	59300W040WS	59300W040NS	√	√	√	√	√	√	√
125	5"	ANSI 16.5, BS PN16	20,7	59300W050WS	59300W050NS	√	√	√	√	√	√	√
150	6"	ANSI 16.5, BS PN16,AS 2129 Table E	20,7	59300W060WS	59300W060NS	√	√	√	√	√	√	√
200	8"	ANSI 16.5, BS PN10	20,7	59300W080WS	59300W080NS	√	√	√	√	√	√	√
200	–	BS PN16	20,7	59300W086WS	59300W086NS	√	√	√	√	√	√	√
250	10"	ANSI 16.5,BS PN10/16	12,1	59300W100WS	59300W100NS	√	√	√	√	√	√	√
300	12"	ANSI 16.5,BS PN10/16	12,1	59300W120WS	59300W120NS	√	√		√	√	√	√

Model BFV-300 Wafer Style Butterfly Valve with CNPP-APSAD Large 100 X 100mm Flag and Internal Supervisory Switches							
Nominal Valve Size		Flange Face	Max Pressure Bar	Part No.		Approval & Listings	
DN	In			BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	VdS
50	2"	ANSI 16.5, BS PN16	20,7	59300W020AWS	59300W020AWSC	√	√
65	2-1/2"	ANSI 16.5, BS PN16	20,7	59300W025AWS	59300W025AWSC	√	√
80	3"	ANSI 16.5	20,7	59300W030AWS	59300W030AWSC	√	√
80	–	BS PN16	20,7	59300W036AWS	59300W036AWSC	√	√
100	4"	ANSI 16.5, BS PN16,AS 2129 Table E	20,7	59300W040AWS	59300W040AWSC	√	√
125	5"	ANSI 16.5, BS PN16	20,7	59300W050AWS	59300W050AWSC	√	√
150	6"	ANSI 16.5, BS PN16,AS 2129 Table E	20,7	59300W060AWS	59300W060AWSC	√	√
200	8"	ANSI 16.5, BS PN10	20,7	59300W080AWS	59300W080AWSC	√	√
200	–	BS PN16	20,7	59300W086AWS	59300W086AWSC	√	√
250	10"	ANSI 16.5,BS PN10/16	12,1	59300W100AWS	59300W100AWSC	√	√
300	12"	ANSI 16.5,BS PN10/16	12,1	59300W120AWS	59300W120AWSC	√	√

Model BFV-300 Wafer Style Butterfly Valve Without Internal Supervisory Switches Accessory External Supervisory Switches And Mounting Brackets						
Nominal Valve Size		Gear Operator Type	Part No.			
DN	In		Mounting Bracket with Mounting Bolts	Bernstein I88-IP65 Regular Switch	Bernstein I88-IP65 LED Switch 24V	Bernstein GC-SU1Z Ex IP-66/67 ATEX (Ex II2G Ex dIIC T6 Gb) Switch
50 - 100	2" - 4"	Travelling Nut	59300SPBRACKET10	59300SPSW	59300SPSWLED	59300SPSWATEX
125 - 150	5" - 6"		59300SPBRACKET20			
200	8"	Segmented Gear	59300SPBRACKET25			
250 - 300	10" - 12"		59300SPBRACKET30			

Install a single switch in either bracket mounting position to monitor Open or Closed valve condition

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

BFV-300

Hydraulic Actuator, TruTorq

Sizes	2" thru 12" (DN50 thru DN300)
End Connection	Wafer and Grooved
Tech Data Sheet	**Contact Tyco for details**

TruTorq actuators are designed to combine the perfect balance of power, durability and safety, in a compact lightweight form. ■ TruTorq actuators are compact Single Acting and Spring Return (SR) hydraulic actuators which are based on a double rack and pinion design. ■ The actuators comply fully with all the relevant industry standards for interfaces and connections such as ISO 5211, DIN 337, VID/VDE 3845 and NAMUR. ■ Two types of actuators are recommended based on BFV sizes. The C-Type Actuator is recommended for valve sizes 2" to 10". The E-Type actuator is recommended for the 12" valves. ■ TruTorq C-Type and E-Type actuators are hydraulic quarter turn actuators based on double rack and pinion design.

Model BFV-300 - Available Hydraulic Actuated Grooved Valves

Nominal Valve Size		Pipe OD		Grooved - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2"	60,3	2.37	59300G020HACT	59300G020BS	TSR8CNIHYDRFULL20	TSR 8 CNI FULL ASSY HYDRA ACT
DN65	2-1/2"	73,0	2.88	59300G025HACT	59300G025BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN65	2-1/2"	73,0	2.88	59300G026HACT	59300G026BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN80	3"	88,9	3.5	59300G030HACT	59300G030BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN100	4"	114,3	4.5	59300G040HACT	59300G040BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN125	5"	141,3	5.56	59300G050HACT	59300G050BS	TSR20CNIHYDRFULL	TSR 20 CNI FULL ASSY HYDRA ACT
DN125	5"	141,3	5.56	59300G056HACT	59300G056BS	TSR20CNIHYDRFULL	TSR 20 CNI FULL ASSY HYDRA ACT
DN150	6"	168,3	6.63	59300G060HACT	59300G060BS	TSR35CNIHYDRFULL60	TSR 35 CNI FULL ASSY HYDRA ACT
DN200	8"	219,1	8.63	59300G080HACT	59300G080BS	TSR35CNIHYDRFULL	TSR 35 CNI FULL ASSY HYDRA ACT
DN250	10"	273	10.75	59300G100HACT	59300G100BS	TSR35CNIHYDRFULL	TSR 35 CNI FULL ASSY HYDRA ACT
DN300	12"	323,9	12.75	59300G120HACT	59300G120BS	TSR70ECNIHYDRFULL	TSR 70E CNI FULL ASSY HYDRA ACT

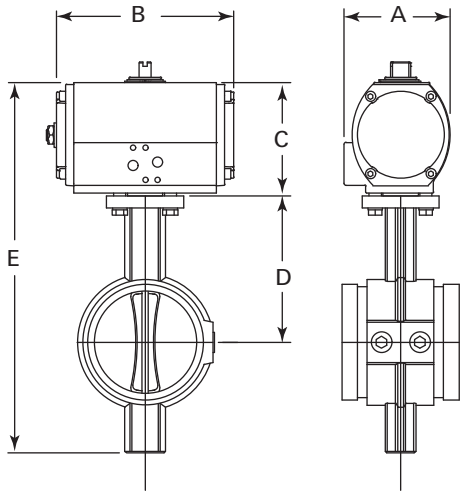
Model BFV-300 - Available Hydraulic Actuated Wafer Valves

Nominal Valve Size		Pipe OD		Wafer - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2"	60,3	2.37	59300W020HACT	59300W020BS	TSR8CNIHYDRFULL20	TSR 8 CNI FULL ASSY HYDRA ACT
DN65	2-1/2"	73,0	2.88	59300W025HACT	59300W025BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN80	3"	76,1	3.00	59300W030HACT	59300W030BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN80	3"	88,9	3.50	59300W036HACT	59300W036BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN100	4"	114,3	4.50	59300W040HACT	59300W040BS	TSR8CNIHYDRFULL	TSR 8 CNI FULL ASSY HYDRA ACT
DN125	5"	141,3	5.56	59300W050HACT	59300W050BS	TSR20CNIHYDRFULL	TSR 20 CNI FULL ASSY HYDRA ACT
DN150	6"	168,3	6.63	59300W060HACT	59300W060BS	TSR35CNIHYDRFULL60	TSR 35 CNI FULL ASSY HYDRA ACT
DN200	8"	219,1	8.63	59300W080HACT	59300W080BS	TSR35CNIHYDRFULL	TSR 35 CNI FULL ASSY HYDRA ACT
DN200	8"	219,1	8.63	59300W086HACT	59300W086BS	TSR35CNIHYDRFULL	TSR 35 CNI FULL ASSY HYDRA ACT
DN250	10"	273,0	10.75	59300W100HACT	59300W100BS	TSR35CNIHYDRFULL	TSR 35 CNI FULL ASSY HYDRA ACT
DN300	12"	323,9	12.75	59300W120HACT	59300W120BS	TSR70ECNIHYDRFULL	TSR 70E CNI FULL ASSY HYDRA ACT

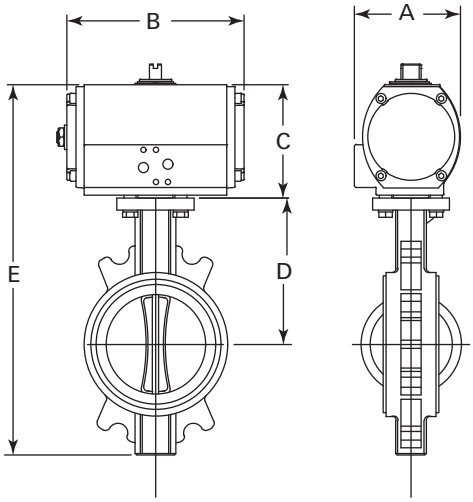
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

BFV-300 - Hydraulic Actuator, TruTorq



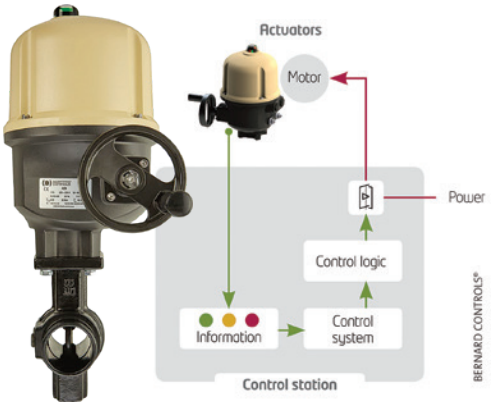
BFV-300 Grooved with Hydraulic Actuator								
Nominal Valve Size		Pipe OD		Dimension mm				
DN	In	mm	In	A	B	C	D	E
50	2"	60,3	2.37	200	162	109	124,5	306
65	2-½"	73,0	2.88	200	162	109	139,8	333,8
80	3"	88,9	3.50	200	162	109	146,3	346,3
100	4"	114,3	4.50	200	162	109	171,5	389,5
125	5"	141,3	5.56	231,5	218	140,5	201,5	473
150	6"	168,3	6.63	251	266	166,5	214,5	526
200	8"	219,1	8.63	251	266	166,5	236	572,5
250	10"	273,0	10.75	251	266	166,5	282	643,5
300	12"	323,9	12.75	286	340	211	310	762,5



BFV-300 Wafer with Hydraulic Actuator								
Nominal Valve Size		Pipe OD		Dimension mm				
DN	In	mm	In	A	B	C	D	E
50	2"	60,3	2.37	200	162	109	98	279,5
65	2-½"	73,0	2.88	200	162	109	113,3	307,3
80	3"	88,9	3.50	200	162	109	119,8	319,8
100	4"	114,3	4.50	200	162	109	145	363
125	5"	141,3	5.56	231,5	218	140,5	166	437,5
150	6"	168,3	6.63	251	266	166,5	179	490,5
200	8"	219,1	8.63	251	266	166,5	204	540,5
250	10"	273,0	10.75	251	266	166,5	250	626,5
300	12"	323,9	12.75	286	340	211	278	730,5

BFV-300

Electric Actuator



Sizes	2" thru 12" (DN50 thru DN300)
End Connection	Wafer and Grooved
Tech Data Sheet	**Contact Tyco for details**

Bernard controls is the inventor of the compact quarter-turn electric actuator with 80+ years of continuous experience. ■ The actuators are super compact in design. ■ The product architecture and torque range are adapted to customers requirement. ■ Three different actuators AQ5, AQ10 and AQ25 are installed depending on the BFV size and 24V DC and 230V DC versions. ■ The actuators features Integrated Control System (above). ■ They are 100% tested and delivered with short lead time.

Model BFV-300 - Available Electric Actuated Grooved Valves 230v							
Nominal Valve Size		Pipe OD		Grooved - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2"	60,3	2.37	59300G020E230	59300G020BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN65	2-½"	73,0	2.88	59300G025E230	59300G025BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN65	2-½"	73,0	2.88	59300G026E230	59300G026BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN80	3"	88,9	3.50	59300G030E230	59300G030BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN100	4"	114,3	4.50	59300G040E230	59300G040BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN125	5"	141,3	5.56	59300G050E230	59300G050BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN125	5"	141,3	5.56	59300G056E230	59300G056BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN150	6"	168,3	6.63	59300G060E230	59300G060BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN200	8"	219,1	8.63	59300G080E230	59300G080BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN250	10"	273,0	10.75	59300G100E230	59300G100BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN300	12"	323,9	12.75	59300G120E230	59300G120BS	AQ25SWITCH30V230	AQ25 Electric Actuator Switch 230 V

Model BFV-300 - Available Electric Actuated Wafer Valves 230v							
Nominal Valve Size		Pipe OD		Wafer - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2"	60,3	2.37	59300W020E230	59300W020BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN65	2-½"	73,0	2.88	59300W025E230	59300W025BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN80	3"	88,9	3.50	59300W030E230	59300W030BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN80	3"	88,9	3.50	59300W036E230	59300W036BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN100	4"	114,3	4.50	59300W040E230	59300W040BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN125	5"	141,3	5.56	59300W050E230	59300W050BS	AQ5SWITCH16V230	AQ5 Electric Actuator Switch 230 V
DN150	6"	168,3	6.63	59300W060E230	59300W060BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN200	8"	219,1	8.63	59300W080E230	59300W080BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN200	8"	219,1	8.63	59300W086E230	59300W086BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN250	10"	273,0	10.75	59300W100E230	59300W100BS	AQ10SWITCH25V230	AQ10 Electric Actuator Switch 230 V
DN300	12"	323,9	12.75	59300W120E230	59300W120BS	AQ25SWITCH30V230	AQ25 Electric Actuator Switch 230 V

General Purpose Valves - Shut Off Valves

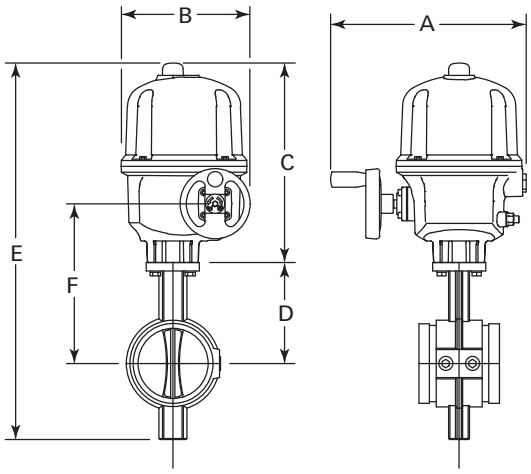
BFV-300 - Electric Actuator

Model BFV-300 - Available Electric Actuated Grooved Valves 24v							
Nominal Valve Size		Pipe OD		Grooved - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2″	60,3	2.37"	59300G020E24	59300G020BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN65	2-1/2″	73,0	2.88"	59300G025E24	59300G025BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN65	2-1/2″	73,0	2.88"	59300G026E24	59300G026BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24VCC
DN80	3″	88,9	3.50"	59300G030E24	59300G030BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN100	4″	114,3	4.50"	59300G040E24	59300G040BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN125	5″	141,3	5.56"	59300G050E24	59300G050BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN125	5″	141,3	5.56"	59300G056E24	59300G056BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24VCC
DN150	6″	168,3	6.63"	59300G060E24	59300G060BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN200	8″	219,1	8.63"	59300G080E24	59300G080BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN250	10″	273,0	10.75"	59300G100E24	59300G100BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN300	12″	323,9	12.75"	59300G120E24	59300G120BS	AQ25SWITCH25V24	AQ25 Electric Actuator Switch 24 VCC

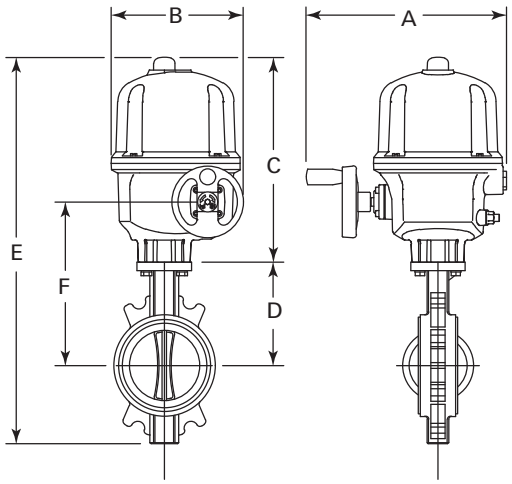
Model BFV-300 - Available Electric Actuated Wafer Valves 24v							
Nominal Valve Size		Pipe OD		Wafer - Part No.			Actuator Description
DN	In	mm	In	Assembly	Valve	Actuator	
DN50	2″	60,3	2.37"	59300W020E24	59300W020BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN65	2-1/2″	73,0	2.88"	59300W025E24	59300W025BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN80	3″	88,9	3.5"	59300W030E24	59300W030BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN80	3″	88,9	3.5"	59300W036E24	59300W036BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN100	4″	114,3	4.5"	59300W040E24	59300W040BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN125	5″	141,3	5.56"	59300W050E24	59300W050BS	AQ5SWITCH13V24	AQ5 Electric Actuator Switch 24 VCC
DN150	6″	168,3	6.63"	59300W060E24	59300W060BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN200	8″	219,1	8.63"	59300W080E24	59300W080BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN250	10″	273,0	10.75"	59300W100E24	59300W100BS	AQ10SWITCH21V24	AQ10 Electric Actuator Switch 24 VCC
DN300	12″	323,9	12.75"	59300W120E24	59300W120BS	AQ25SWITCH25V24	AQ25 Electric Actuator Switch 24 VCC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

BFV-300 - Electric Actuator



BFV-300 Grooved with Electric Actuator									
Nominal Valve Size		Pipe OD		Dimension mm					
DN	In	mm	In	A	B	C	D	E	F
50	2"	60,3	2.37	280	184	286	124,5	483,0	206,5
65	2-½"	73,0	2.88	280	184	286	139,8	510,8	221,8
80	3"	88,9	3.50	280	184	286	146,3	523,3	228,3
100	4"	114,3	4.50	280	184	286	171,5	566,5	253,5
125	5"	141,3	5.56	280	184	286	201,5	622,5	283,5
150	6"	168,3	6.63	280	184	286	214,5	618,5	296,5
200	8"	219,1	8.63	280	184	286	236	692,0	318
250	10"	273,0	10.75	280	184	286	282	767,0	364
300	12"	323,9	12.75	379	224	318	310	869,5	413



BFV-300 Wafer with Electric Actuator									
Nominal Valve Size		Pipe OD		Dimension mm					
DN	In	mm	In	A	B	C	D	E	F
50	2"	60,3	2.37	280	184	286	98	456,5	180
65	2-½"	73,0	2.88	280	184	286	113,3	484,3	195,3
80	3"	88,9	3.50	280	184	286	119,8	496,8	201,8
100	4"	114,3	4.50	280	184	286	145	540	227
125	5"	141,3	5.56	280	184	286	166	583	248
150	6"	168,3	6.63	280	184	286	179	610	261
200	8"	219,1	8.63	280	184	286	204	660	286
250	10"	273,0	10.75	280	184	286	250	746	332
300	12"	323,9	12.75	379	224	318	278	837,5	381

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

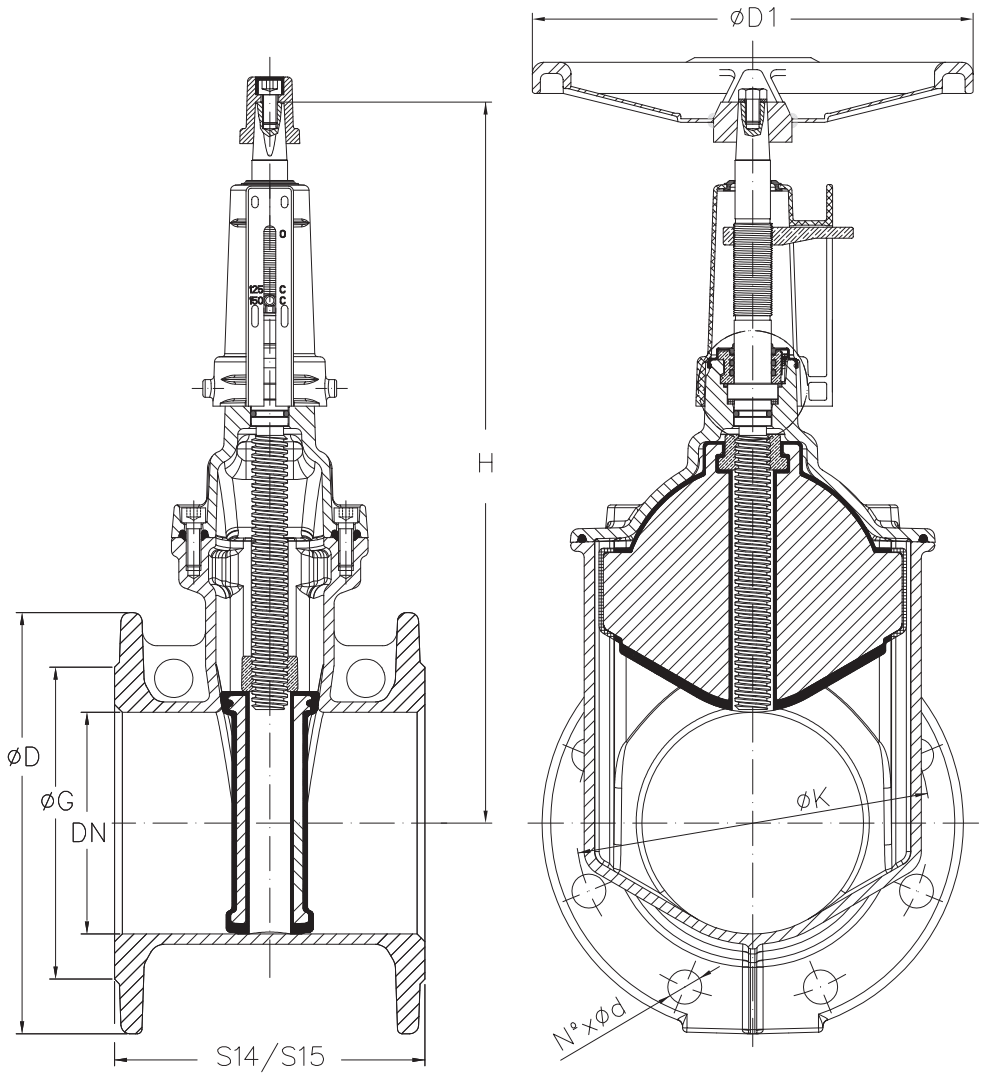
Model Infinity / 05-47 Series Resilent Gate Valves

Non Rising Stem

Sizes	DN50 thru DN400 (2" thru 16")
Approvals	ISO, NF, KIWA, DVGW, WRAS, ÖVGW, GOST, FM, VdS
Maximum Working Pressure	16,0 bar (232 psi)
End Connection	Flange x Flange
Flange Drilling	PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Full and straight bore, so the flow is optimum with minimum head losses ■ Maintenance free ■ Tightness through the stem made with three O-rings ■ Dust guard to protect the spindle from any impurities ■ 100% tested according to EN 12166-1 standard ■ New wedge and stem technology ensures smooth functionality with outstanding low torque values ■ New guiding system for the wedge with male composite sliding skate in order to easily achieve the 2500 cycles enurance test required by European standards.

Model Infinity - DN50 - DN300

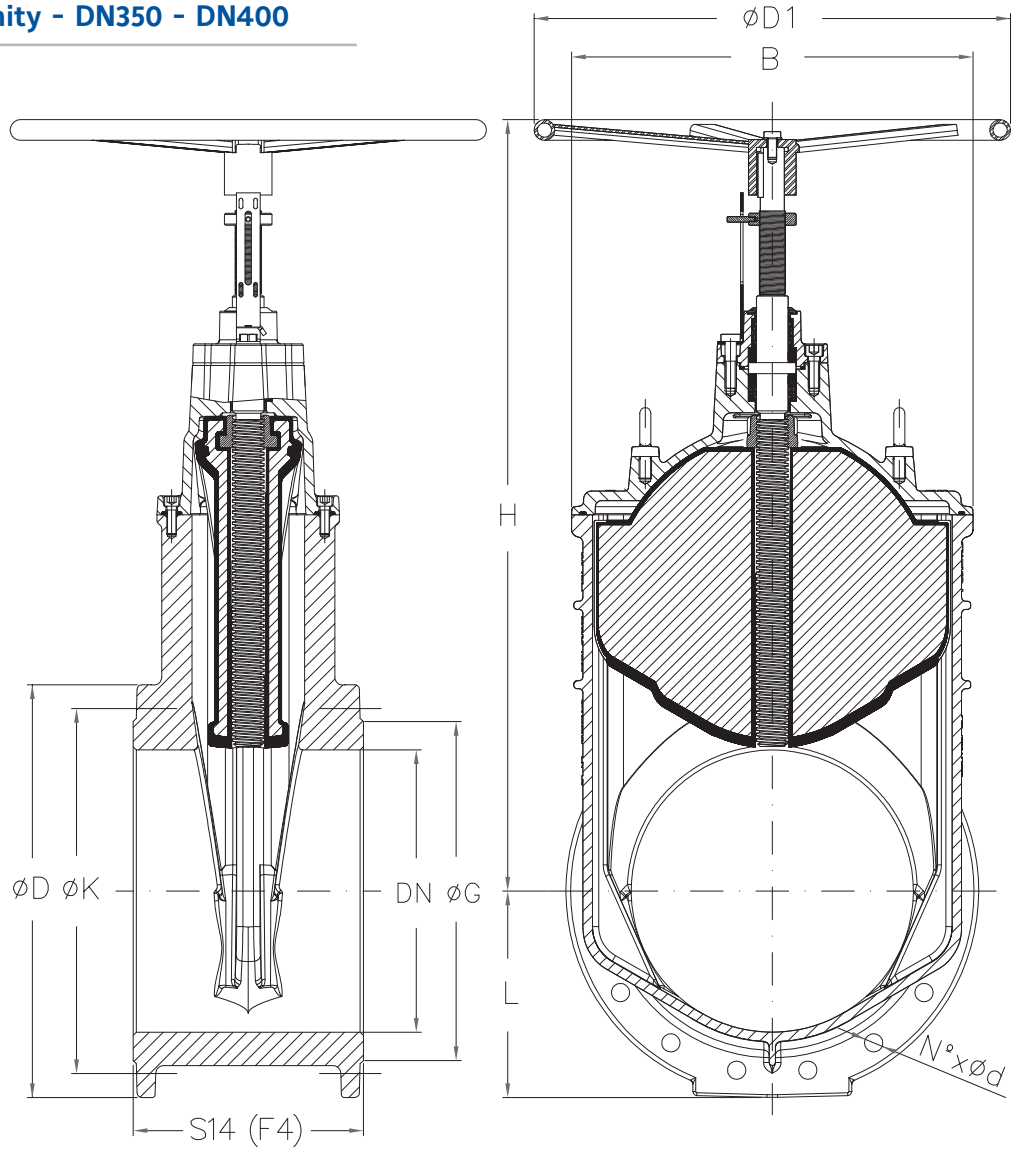


Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model Infinity / 05-47 Series Resilent Gate Valves - Dimensions

Model Infinity /05-47 Flange x Flange - DN50 - DN400																				
Part Number			Size			EN-1092-2 PN10			EN-1092-2 PN16			EN 5858 (DIN 3203)		H mm	L mm	B mm	øD1 mm	No. of turns for closing	Weight kg PN10/16	
F4 PN10/16 or PN10 (>= 8")	F4 PN16	F5 PN10/16 or PN10 (>= 8")	DN	in.	øD mm	øK mm	øG mm	no. X d	øK mm	øG mm	no. X d	S14 (F4) mm	S15 (F5) mm						S14 (F4)	S15 (F5)
594700608	-	-	50	2"	165	125	99	4x19	125	99	4x19	150	250	185	83	-	150	14	8	9
594700768	-	594710768	65	2-½"	185	145	118	4x19	145	118	4x19	170	270	227	93	-	150	15	12	13
594700898	-	594710898	80	3"	200	160	132	8x19	160	132	8x19	180	280	250	100	-	200	18	14	15
594701148	-	594711148	100	4"	220	180	156	8x19	180	156	8x19	190	300	287	110	-	200	21,5	16	18
594701398	-	594711398	125	5"	250	210	184	8x19	210	184	8x19	200	325	324	125	-	300	27	23	25
594701688	-	594711688	150	6"	285	240	211	8x23	240	211	8x23	210	350	368	143	-	300	32	27	31
594702197	594702198	594712197	200	8"	340	295	266	8x23	295	266	12x23	230	400	450	170	-	400	41,5	47	54
594702737	594702738	-	250	10"	400	350	319	12x23	355	319	12x23	250	450	546	200	-	400	43	69	78,8
594703247	594703248	-	300	12"	455	400	370	12x23	410	370	12x23	270	500	621	228	-	500	51	97	115
594703557	-	-	350	14"	520	460	429	16x23	470	429	16x28	290	550	812	260	506	600	51	190	213
594704067	-	-	400	16"	580	515	480	16x28	525	480	16x31	310	600	905	290	606	800	58	274	311

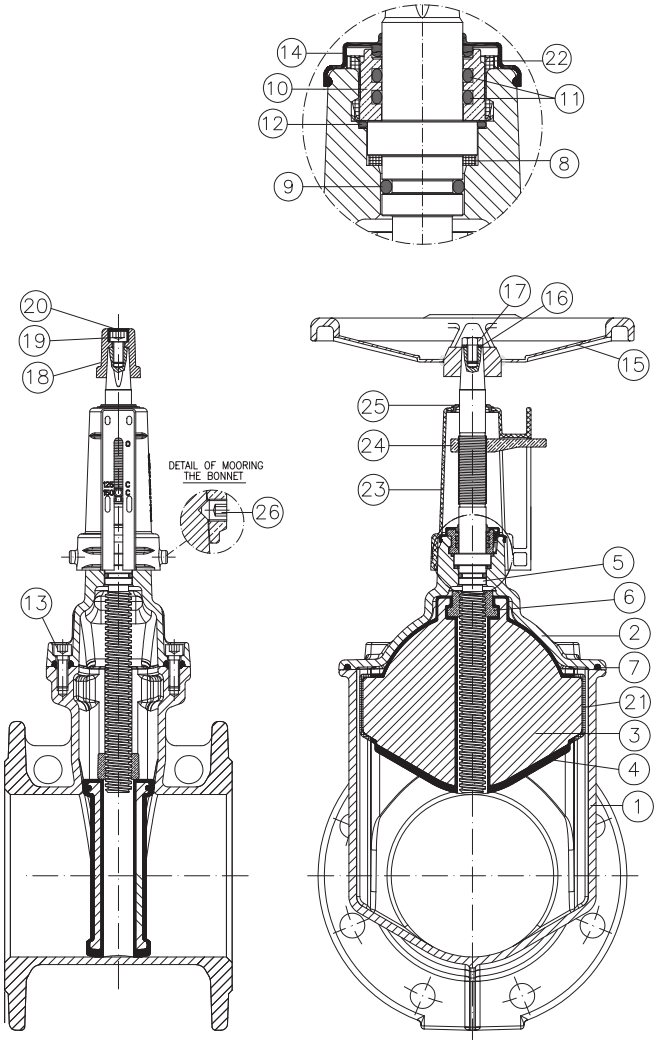
Model Infinity - DN350 - DN400



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

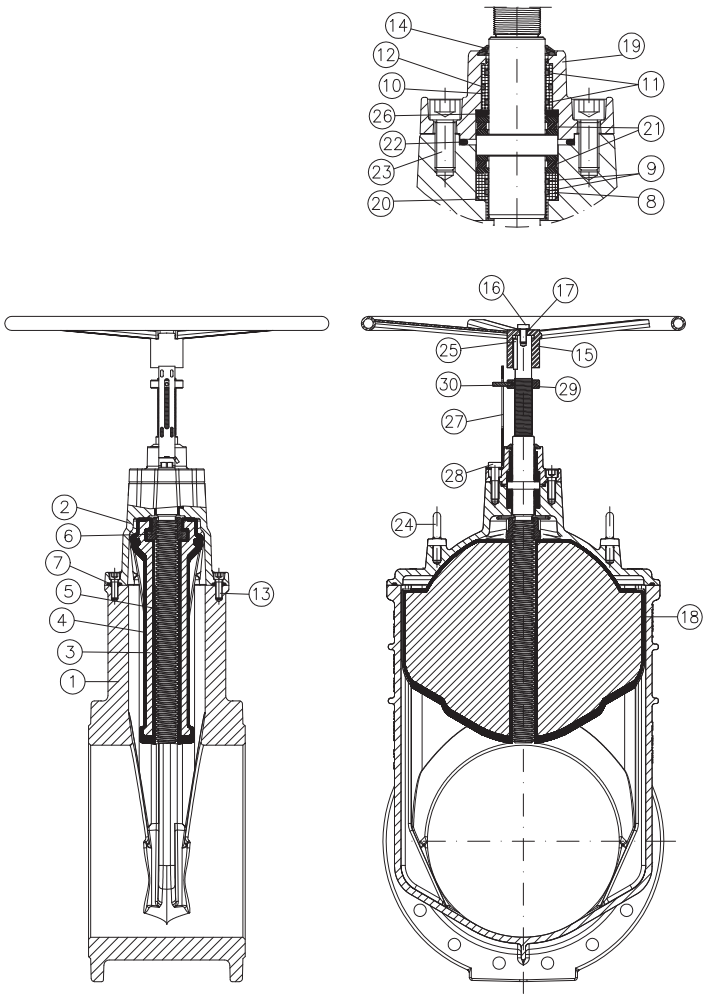
General Purpose Valves - Shut Off Valves

Model Infinity / 05-47 Series Resilent Gate Valves - DN50 & DN300



Model Infinity 05-47 - DN350 & DN400			
Item No.	Description	Qty.	Material
1	Body	1	GJS 500/7, EN 1563
2	Bonnet	1	GJS 500/7, EN 1563
3	Wedge	1	GJS 500/7, EN 1563
4	Wedge Coating	1	EPDM, EN 681-1
5	Stem	1	X20 Cr13, EN 10088, AISI 420
6	Wedge Lock Nut	1	Copper Alloy, EN 12165, CW-617N
7	Body Bonnet Gasket	1	EPDM, EN 681-1
8	Stem Washer	1	POM
9	O-Ring (Stem)	1	EPDM, EN 681-1
10	Stuffing Nut	1	Copper Alloy, EN 12165, CW307G
11	O-Ring (Stuffing Nut)	2	NBR, ASTM D2000
12	O-Ring (Bonnet)	1	NBR, ASTM D2000
13	Body Bonnet Bolts	as/ DN	Steel 12.9, DIN 912 Dimensions (GEOMET Coating)
14	Dust Guard	1	EPDM, EN 681-1
15	Handwheel	1	Stainless Steel, EN 10130, DC04 (DIN 1.0388)
16	Handwheel Bolt	1	Stainless Steel, EN 10088, (A4) DIN 933 Dimensions
17	Handwheel Washer	1	Stainless Steel, EN 10088, (A4) DIN 9021 Dimensions
18	Square Cap	1	EN GJS 500/7, EN 1563
19	Square Cap Bolt	1	Stainless Steel, EN 10088, (A4) DIN 912 M4
20	Tape Square	1	LUPOLEN
21	Wedge Guide	2	Fortron+40%GF
22	Locking Device	3	PA6+50%GF
23	Indicator Carcase	1	AISI, Aluminium
24	Indicator Cradle	1	Copper Alloy, EN 12165, CW617N
25	Ind. Carcase Dustguard	1	EPDN, EN 681-1
26	Thread Stick	2	Stainless Steel, EN 10088, (A4) M8x10 DN-40-50, M8x8 DN>50

Model Infinity / 05-47 Series Resilent Gate Valves - DN350 & DN400



Model Infinity 05-47 - DN350 & DN400			
Item No.	Description	Qty.	Material
1	Body	1	GJS 500/7, EN 1563
2	Bonnet	1	GJS 500/7, EN 1563
3	Wedge	1	GJS 500/7, EN 1563
4	Wedge Coating	1	EPDM, EN 681-1, W270
5	Stem	1	X20Cr13, EN 10088, AISI 420
6	Wedge Lock Nut	1	Copper Alloy, EN 12165, CW-617N
7	Body Bonnet Gasket	1	EPDM, EN 681-1
8	Lower Packing Bushing	1	POM, Acetal Resin
9	O-Ring (Stem)	2	EPDM, EN 681-1
10	Upper Packing Bushing	1	POM, Acetal Resin
11	O-Ring Int. (Upper Packing)	2	NBR, ASTM D2000
12	O-Ring Ext. (Upper Packing)	1	NBR, ASTM D2000
13	Body Bonnet Bolt	10	Steel 9.122, EN 10088, DIN 912 (Rech. Geomet)
14	Dust Guard	1	EPDM, EN 681-1
15	Handweel	1	Stamped Steel
16	Handweel Bolt	1	AISI 316, EN 10088, (A4) DIN 933
17	Handweel Washer	1	AISI 316, EN 10088, (A4) DIN 9021
18	Wedge Guides	2	PPS + 4-%GF
19	Upper Bonnet	1	GJS 500/7, EN 1563
20	O-Ring (Lower Packing)	1	EPDM, EN 681-1
21	Axial Bering Roller	2	Steel
22	O-Ring Bonnet-Jpper Bonnet	1	NBR, ASTM D2000
23	Bonnet-Upper Bonnet Bolt	3	AISI 316, EN 10088, (A4) DIN 912
24	Eyebolt	2	AISI 316, EN 10088, (A4) DIN 580
25	Cotter	1	AISI 316, EN 10088, (A4) DIN 6885
26	Washer Upper Packing	1	254 SMO, DIN 1.4547
27	Indicator Plate	1	1 - 114, DIN 36011
28	Indicator Plate Bolt	1	AISI 316, EN 10088, (A4) DIN 933
29	Indicator Wedge	1	Bronze Rg. 5, DIN 1705
30	Indicator Stem	1	AISI 304, EN 10088, A2

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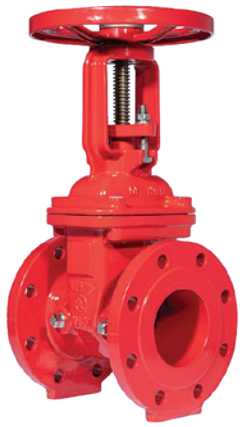
General Purpose Valves - Shut Off Valves

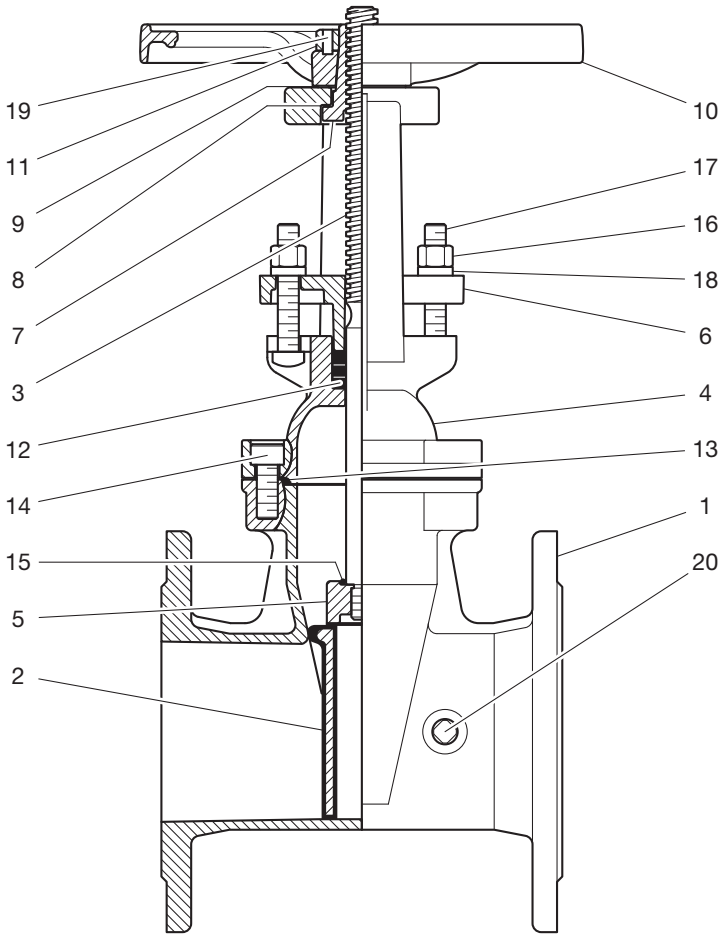
Model TJR Series Resilient-Seated Gate Valves

Outside Screw and Yoke



Sizes	DN50 thru DN400 (2" thru 16")
Approvals	UL & C-UL Listed & FM Approved
Maximum Working Pressure	UL - 20,7 bar (300 psi) up to DN300 (12") FM - 16,0 bar (232 psi) up to DN300 (12")
End Connection	Flange x Flange, Flange x Groove, Groove x Groove
Flange Drilling	ANSI, PN, AS
Tech Data Sheet	**TFP1541**

TYCO TJ Series Resilient-Seated Gate Valves are offered in multiple end connection configurations including: Flange by Flange, Flange by Groove, and Groove by Groove ■ Tapping bossed for up and downstream connection to valve trims ■ Ductile iron wedge gate, fully encapsulated with EPDM rubber ■ Corrosion-resistant components

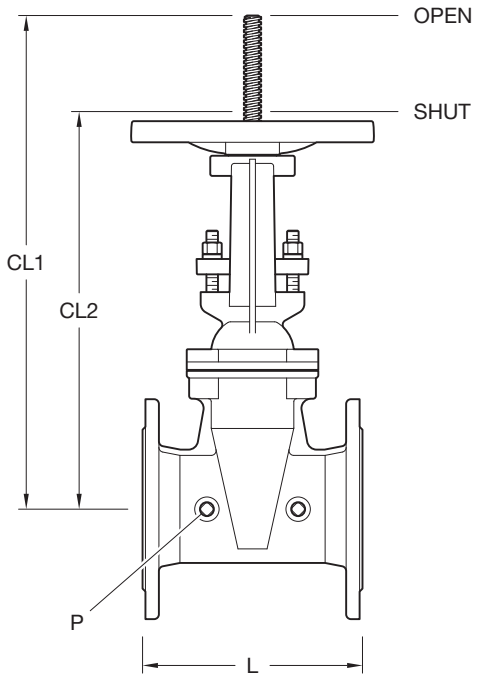


Parts List			
Item No.	Description	Qty.	Material
1	Body	1	ASTM A536 65-45-12
2	Wedge	1	EPDM
3	Stem	1	AISI SS240
4	Bonnet	1	ASTM A536 65-45-12
5	Disc Nut	1	ASTM A351 CF8
6	Packing	1	ASTM A536 65-45-12
7	Nut	1	ASTM B62
8	Nut Shim	1	ASTM B16
9	Handwheel Shim	1	ASTM B16
10	Handwheel	1	ASTM A536 65-45-12
11	Handwheel Nut	1	Carbon Steel Galvinized
12	Packing	3	PTFE
13	Seal Ring	1	EPDM
14	Hexagonal Screw	4-10	8.8 Rating
15	O-Ring	1	EPDM
16	Hexagonal Nut	2	ASTM SS304
17	Bolt	2	ASTM SS304
18	Spring Washer	2	ASTM SS304
19	Cylindrical Screw	1	ASTM SS304
20	Plug	2	ASTM SS304

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJR Series Resilient-Seated Gate Valves - Flange x Flange

Model TJR - Flange x Flange														
Part Number			Size		O.D. Size		Dimensions mm			P Tapping Boss Size ANSI NPT	Nominal Handwheel Turns to Fully Operate (Open or close)	Weight kg	Approval & Listings	
Flange x Flange ISO 7005-2 PN16	Flange x Flange ANSI Class 150	Flange x Flange AS 2129 (Table E)	DN	in.	mm	in.	L	CL1	CL2				UL/ C-UL	FM
TJRX0500001	TJRX0500003	TJRX0500005	50	2"	60,3	2.375	178	395	332		13	17,64	√	√
TJRX0650001	TJRX0650003	TJRX0650005	65	2-½"	73,0	2.875	190	410	338		16	18,91	√	√
	-	-	65	76,1mm	76,1	3.000	190	410	338		16	18,91	√	√
TJRX0800001	TJRX0800003	TJRX0800005	80	3"	88,9	3.500	203	480	380	½"	20	22,13	√	√
TJRX1000001	TJRX1000003	TJRX1000005	100	4"	114,3	4.500	229	573	450		20	27,16	√	√
	-	-	150	165,1mm	165,1	6.500	254	750	592		25	46,9	√	√
TJRX1500001	TJRX1500003	TJRX1500005	150	6"	168,3	6.625	267	750	592		25	46,9	√	√
TJRX2000001	TJRX2000003	TJRX2000005	200	8"	219,1	8.625	292	956	748	¾"	34	72,0	√	√
TJRX2500001	TJRX2500003	TJRX2500005	250	10"	273,1	10.750	330	1175	888		42	111,0	√	√
TJRX3000001	TJRX3000003	TJRX3000005	300	12"	323,9	12.750	356	1318	1005	1"	50	167,0	√	√
TJRX3500001	-	TJRX3500005	350	14"	355,6	14.014	381	1205	1577		20	287,0	√	√
TJRX4000001	-	TJRX4000005	400	16"	406,4	16.000	406	1383	1800		20	376,0	√	√



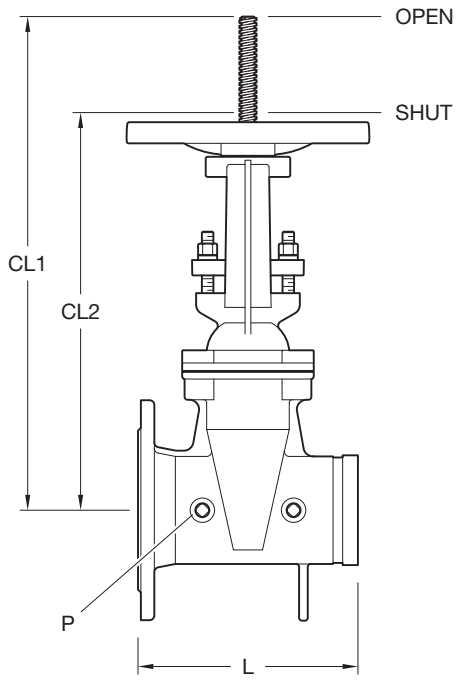
FLANGE x FLANGE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

Model TJR Series Resilient-Seated Gate Valves - Flange x Groove

Model TJR - Flange x Groove													
Part Number		Size		O.D. Size		Dimensions mm			P Tapping Boss Size ANSI NPT	Nominal Handwheel Turns to Fully Operate (Open or close)	Weight kg	Approval & Listings	
Flange x Groove ISO 7005-2 PN16	Flange x Groove ANSI Class 150	DN	in.	mm	in.	L	CL1	CL2				UL/ C-UL	FM
TJRT0500601	TJRT0500603	50	2"	60,3	2.375	178	395	332		13	16,7	√	√
TJRT0650731	TJRT0650733	65	2-½"	73,0	2.875	190	410	338		16	17,8	√	√
TJRT0650761	TJRT0650763	65	76,1mm	76,1	3.000	190	410	338		16	17,8	√	√
TJRT0800891	TJRT0800893	80	3"	88,9	3.500	203	480	380	½"	20	22,0	√	√
TJRT1001141	TJRT1001143	100	4"	114,3	4.500	229	573	450		20	25,6	√	√
TJRT1501651	TJRT1501653	150	165,1mm	165,1	6.500	254	750	592		25	45,0	√	√
TJRT1501681	TJRT1501683	150	6"	168,3	6.625	267	750	592		25	45,0	√	√
TJRT2002191	TJRT2002193	200	8"	219,1	8.625	292	956	748	¾"	34	73,0	√	√
TJRT2502731	TJRT2502733	250	10"	273,1	10.750	330	1175	888	1"	42	108,5	√	√
TJRT3003241	TJRT3003243	300	12"	323,9	12.750	356	1318	1005		50	163,5	√	√

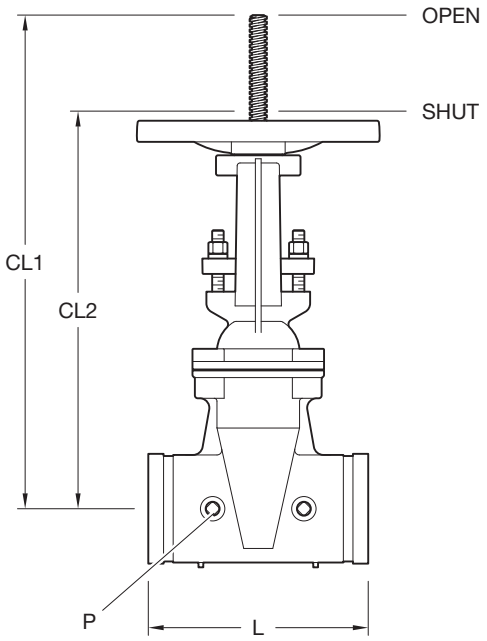


FLANGE x GROOVE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJR Series Resilient-Seated Gate Valves - Groove x Groove

Model TJR - Flange x Flange												
Part Number	Size		O.D. Size		Dimensions mm			P Tapping Boss Size ANSI NPT	Nominal Handwheel Turns to Fully Operate (Open or close)	Weight kg	Approval & Listings	
Groove x Groove	DN	in.	mm	in.	L	CL1	CL2				UL/ C-UL	FM
TJRG0500604	50	2"	60,3	2.375	178	395	332		13	15,8	√	√
TJRG0650734	65	2-1/2"	73,0	2.875	190	410	338		16	16,6	√	√
TJRG0650764	65	76,1mm	76,1	3.000	190	410	338		16	16,6	√	√
TJRG0800894	80	3"	88,9	3.500	203	480	380	1/2"	20	21,8	√	√
TJRG1001144	100	4"	114,3	4.500	229	573	450		20	24,0	√	√
TJRG1501654	150	165,1mm	165,1	6.500	254	750	592		25	43,0	√	√
TJRG1501684	150	6"	168,3	6.625	267	750	592		25	43,0	√	√
TJRG2002194	200	8"	219,1	8.625	292	956	748	3/4"	34	74,0	√	√
TJRG2502734	250	10"	273,1	10.750	330	1175	888	1"	42	106,0	√	√
TJRG3003244	300	12"	323,9	12.750	356	1318	1005		50	160,0	√	√



GROOVE x GROOVE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

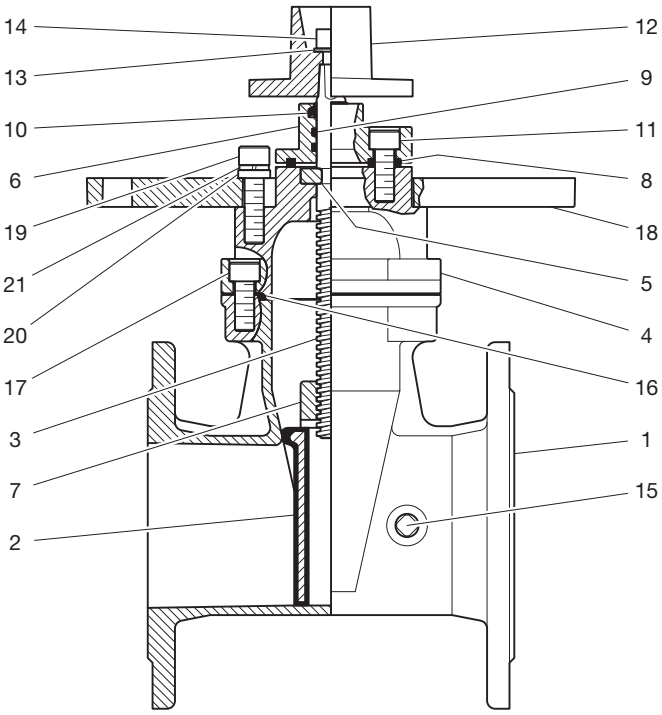
General Purpose Valves - Shut Off Valves

Model TJP Series Resilient-Seated Gate Valves

Non-Rising Stem

Sizes	DN50 thru DN600 (2" thru 24")
Approvals	UL & C-UL Listed & FM Approved
Maximum Working Pressure	UL - 20,7 bar (300 psi) FM - 16,0 bar (232 psi)
End Connection	Flange x Flange, Flange x Groove, Groove x Groove
Flange Drilling	ANSI & ISO
Tech Data Sheet	**TFP1546**

TYCO TJ Series Resilient-Seated Gate Valves are offered in multiple end connection configurations including: Flange by Flange, Flange by Groove, and Groove by Groove ■ Ductile iron wedge gate, fully encapsulated with EPDM rubber ■ Corrosion-resistant components

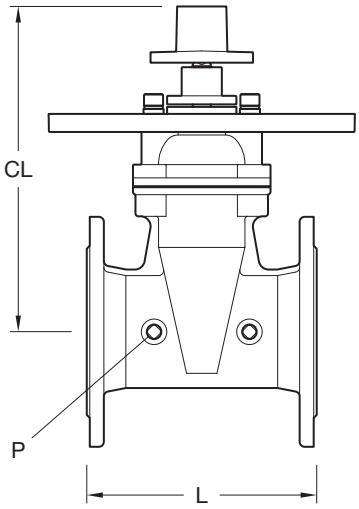


Parts List			
Item No.	Description	Qty.	Material
1	Body	1	ASTM A536 65-45-12
2	Wedge	1	EPDM
3	Stem	1	AISI SS240
4	Bonnet	1	ASTM A536 65-45-12
5	Half-Ring	1	ASTM C1100
6	Seal Seat	1	ASTM A536 65-45-12
7	Disc Nut	1	ASTM B62 C83600
8	Seal Ring	1	EPDM
9	O-Ring	2	EPDM
10	Dust Ca	1	EPDM
11	Hex Socket Cap Screw	2	8.8 Rating
12	Wench Nut	1	ASTM A536 65-45-12
13	Washer	1	ASTM SS304
14	Hex Socket Cap Screw	1	8.8 Rating
15	Plug	2	ASTM SS304
16	Gasket	1	EPDM
17	Hex Socket Cap Screw	4-10	ASTM SS304
18	Post Flange	1	ASTM A536 65-45-12
19	Washer	2	Carbon Steel Galvanized
20	Spring Washer	2	Carbon Steel Galvanized
21	Hex Socket Cap Screw	2	8.8 Rating

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJP Series Resilient-Seated Gate Valves - Flange x Flange

Model TJP - Flange x Flange												
Part Number			Size		O.D. Size		Dimensions mm		P Tapping Boss Size ANSI NPT	Weight kg	Approval & Listings	
Flange x Flange ISO 7005-2 PN16	Flange x Flange ANSI Class 150	Flange x Flange AS 2129 (Table E)	DN	in.	mm	in.	L	CL			UL/ C-UL	FM
TJPX1000001	TJPX0800003	TJPX0800005	50	2"	60,3	2.375	178	579		11,3	√	√
TJPX1000001	TJPX1000003	TJPX1000005	100	4"	114,3	4.500	229	332	1/2"	35	√	√
TJPX1500001	TJPX1500003	TJPX1500005	150	6"	168,3	6.625	267	436		50	√	√
TJPX2000001	TJPX2000003	TJPX2000005	200	8"	219,1	8.625	292	520	3/4"	83	√	√
TJPX2500001	TJPX2500003	TJPX2500005	250	10"	273,1	10.750	330	620		123,5	√	√
TJPX3000001	TJPX3000003	TJPX3000005	300	12"	323,9	12.750	356	670		175,5	√	√
TJPX3500001	TJPX3500003	TJPX3500005	350	14"	355,6	14.000	381	862		230	√	√
TJPX4000001	TJPX4000003	TJPX4000005	400	16"	406,4	16.000	406	938	1"	324	√	√
TJPX4500001	TJPX4500003	TJPX4500005	450	18"	457,2	18.000	432	1057		440	√	√
TJPX5000001	TJPX5000003	TJPX5000005	500	20"	508,0	20.000	457	1142		638	√	√
TJPX6000001	TJPX6000003	TJPX6000005	600	24"	609,6	24.000	508	1295		820	√	√



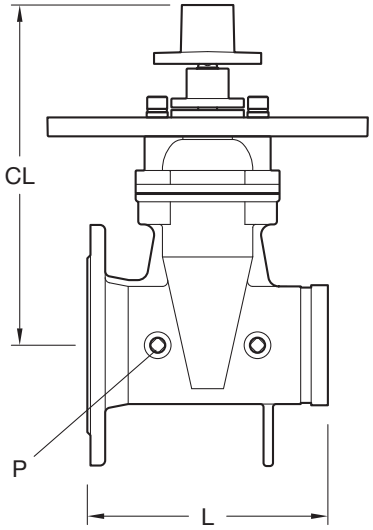
FLANGE x FLANGE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

Model TJP Series Resilient-Seated Gate Valves - Flange x Groove

Model TJP - Flange x Groove											
Part Number		Size		O.D. Size		Dimensions mm		P Tapping Boss Size ANSI NPT	Weight kg	Approval & Listings	
Flange x Groove ISO 7005-2 PN16	Flange x Groove ANSI Class 150	DN	in.	mm	in.	L	CL			UL/ C-UL	FM
TJPT0500601	TJPT0500603	50	2"	60,3	2.375	178	579		10,9	√	√
TJPT1001141	TJPT1001143	100	4"	114,3	4.500	229	332	1/2"	33,4	√	√
TJPT1501681	TJPT1501683	150	6"	168,3	6.625	267	436		48,0	√	√
TJPT2002191	TJPT2002193	200	8"	219,1	8.625	292	520	3/4"	84,0	√	√
TJPT2502731	TJPT2502733	250	10"	273,1	10.750	330	620	1"	121,0	√	√
TJPT3003241	TJPT3003243	300	12"	323,9	12.750	356	670		172,0	√	√

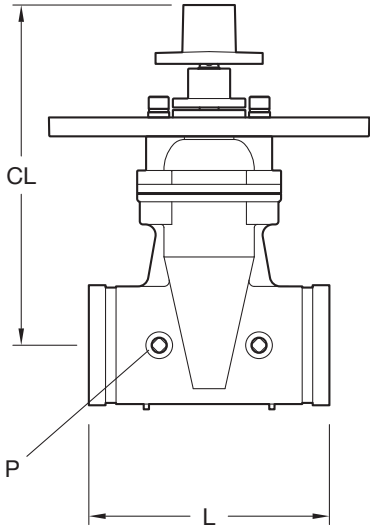


FLANGE x GROOVE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJP Series Resilient-Seated Gate Valves - Groove x Groove

Model TJP - Groove x Groove										
Part Number	Size		O.D. Size		Dimensions mm		P Tapping Boss Size ANSI NPT	Weight kg	Approval & Listings	
Groove x Groove	DN	in.	mm	in.	L	CL			UL/ C-UL	FM
TJPX0500604	50	2"	60,3	2.375	178	579		10,5	√	√
TJPX1001144	100	4"	114,3	4.500	229	332	1/2"	23,1	√	√
TJPX1501684	150	6"	168,3	6.625	267	436		46,1	√	√
TJPX2002194	200	8"	219,1	8.625	292	520	3/4"	85,0	√	√
TJPX2502734	250	10"	273,1	10.750	330	620	1"	118,5	√	√
TJPX3003244	300	12"	323,9	12.750	356	670		168,5	√	√



GROOVE x GROOVE

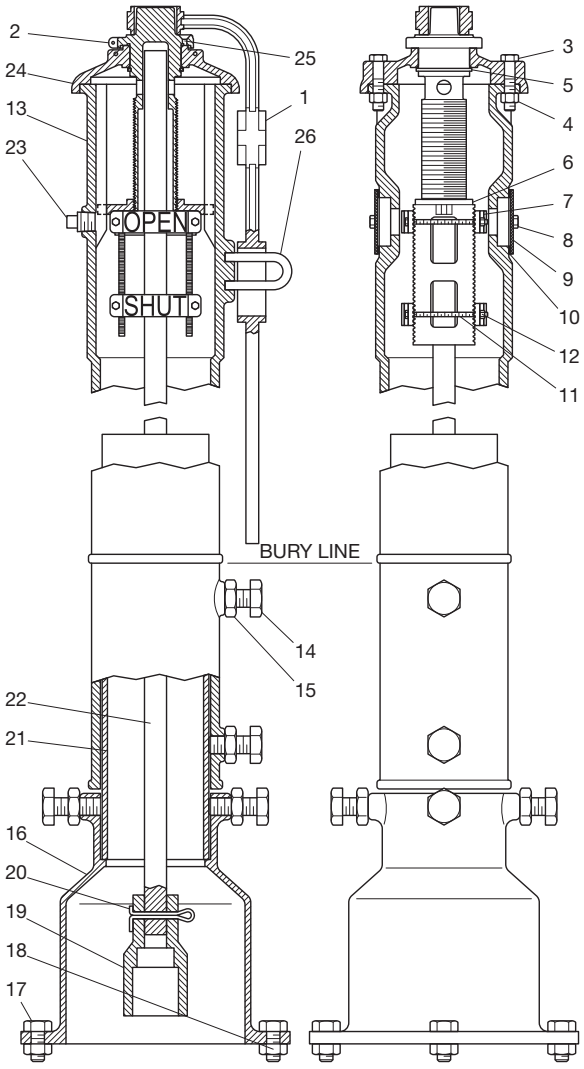
General Purpose Valves - Shut Off Valves

Model TJP Series Resilient

Vertical Indicator Post

Sizes	DN50 thru DN400 (2" thru 16")
Approvals	UL & C-UL Listed & FM Approved
Maximum Working Pressure	UL - 20,7 bar (300 psi) FM - 16,0 bar (232 psi)
Tech Data Sheet	**TFP1546**

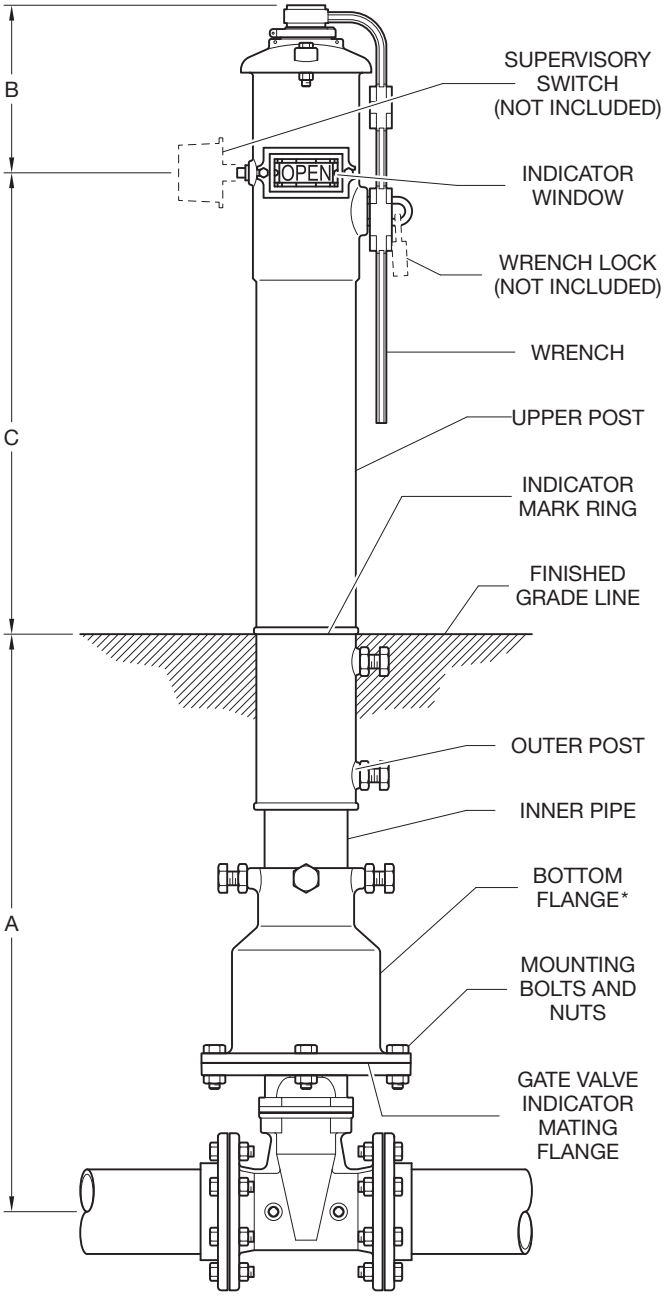
Indicators provide external visual indication of the open or shut valve condition as well as a locking mechanism to secure a particular wedge position.



Parts List			
Item No.	Description	Qty.	Material
1	Locking Wrench	1	ASTM A126B
2	Operating Nut	1	ASTM B62
3	Hex Cap Screw	2	ASTM A105
4	Hex Nut	2	ASTM A105
5	Snap Ring	1	AISI 066
6	Target Carrier Yoke	1	ASTM B62
7	Target	4	ASTM B108
8	Hex Cap Screw	4	ASTM A105
9	Window Glass	2	Lexan-UN
10	Window Glass Gasket	2	PTFE
11	Hex Cap Screw	4	ASTM A105
12	Hex Nut	4	ASTM A105
13	Upper Post	1	ASTM A536
14	Hex Cap Screw	6	ASTM A105
15	Hex Nut	6	ASTM A105
16	Mounting Flange	1	ASTM A126B
17	Hex Cap Screw	4	ASTM A105
18	Hex Nut	4	ASTM A105
19	Connection Tube Coupling	1	ASTM A536
20	Cotter Pin	1	AISI 304
21	Inner Pipe	1	ASTM A53
22	Connection Tube	1	AISI 1045
23	Plug	1	AISI 304
24	Cap	1	ASTM A126B
25	Phillips Head Screw	1	AISI 304
26	Lock Hasp	1	ASTM 307B

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJP Series Resilient-Seated Gate Valves - Vertical Indicator Post



Model TJP - Vertical Indicator Post								
Part Number	Size		A Valve CL to Finished Grade		Dimensions mm		Approval & Listings	
	DN	In.	Min.	Max.	B	C	UL	FM
TJUPA Type A	50	2"	744	1614	240	760	√	√
	100	4"	791	1661			√	√
	150	6"	892	1762			√	√
	200	8"	975	1845			√	√
	250	10"	1075	1945			√	√
	300	12"	1156	2026			√	√
TJUPB Type B	350	14"	1292	4022	287		√	√
	400	16"	1367	4097			√	√
	450	18"	1487	4217			√	√
	500	20"	1572	4302			√	√
	600	24"	1724	4454			√	√

* Type B Post bottom flange features reducing gear for compatibility with DN350 (14") and larger valve sizes.

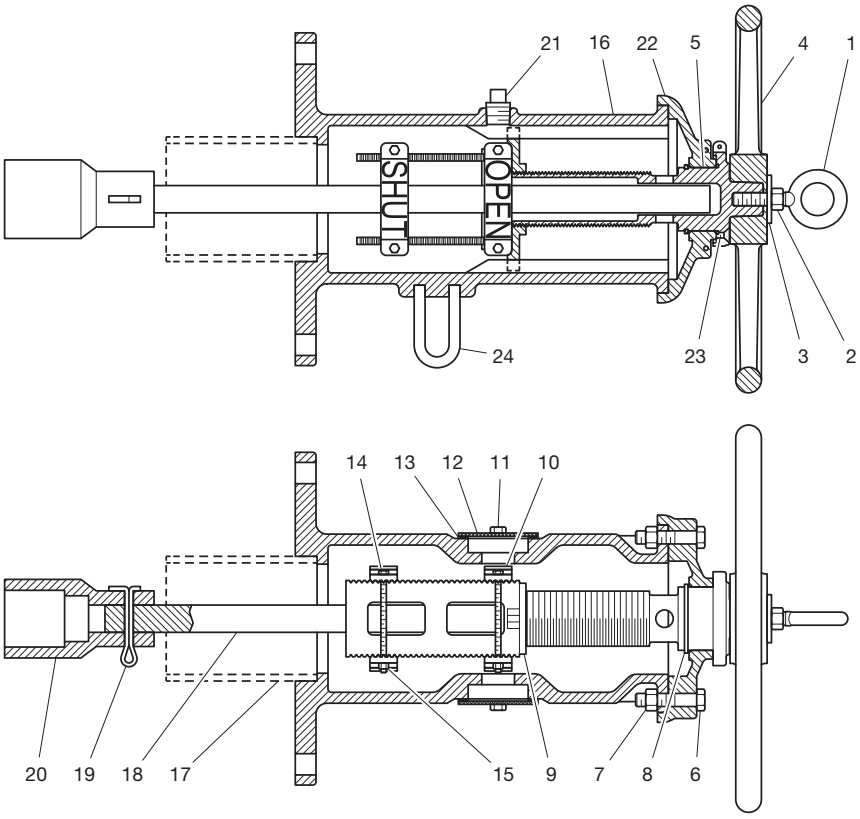
General Purpose Valves - Shut Off Valves

Model TJP Series Resilient - Cross Wall Indicator Post

Cross Wall Indicator Post

Sizes	DN50 thru DN300 (2" thru 12")
Approvals	UL & C-UL Listed & FM Approved
Maximum Working Pressure	UL - 20,7 bar (300 psi) FM - 16,0 bar (232 psi)
Tech Data Sheet	**TFP1546**

Indicators provide external visual indication of the open or shut valve condition as well as a locking mechanism to secure a particular wedge position.

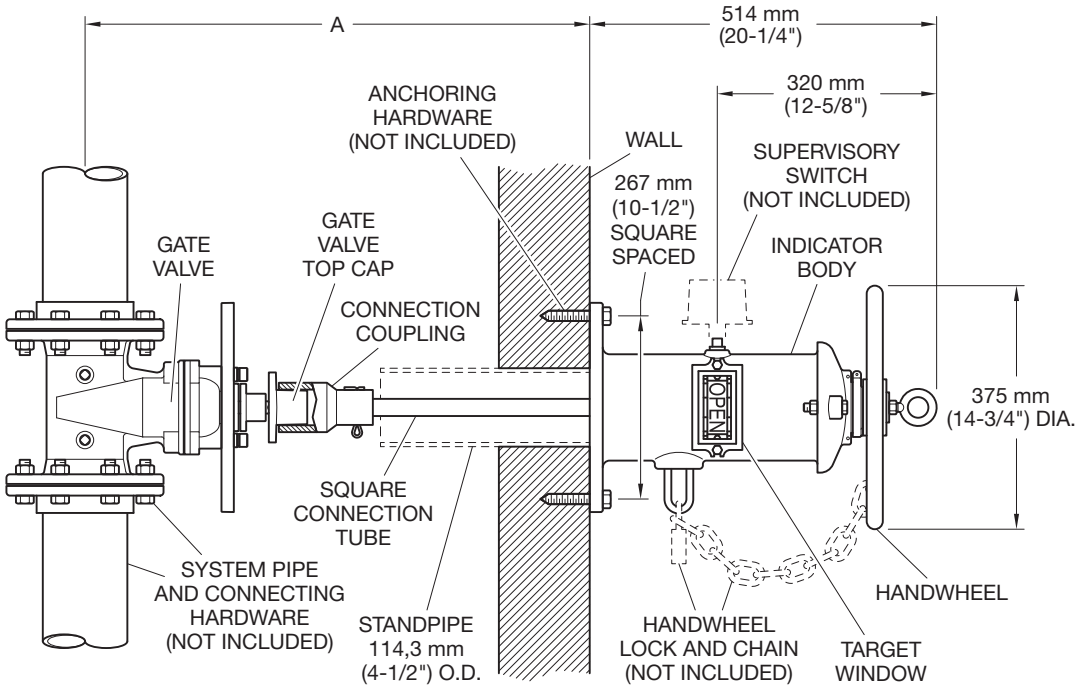


Parts List			
Item No.	Description	Qty.	Material
1	Lifting Eye Bolt	1	ASTM A307B
2	Hex Nut	1	ASTM A307B
3	Washer	1	ASTM A307B
4	Handwheel	1	ASTM A536
5	Operating Nut	1	ASTM B62
6	Hex Cap Screw	2	ASTM A307B
7	Hex Nut	2	ASTM A307B
8	Snap Ring	1	AISI 066
9	Target Carrier Yoke	1	ASTM B62
10	Target	4	ASTM B108
11	Hex Cap Screw	4	ASTM A307B
12	Window Glass	2	Lexan-UN
13	Window Glass Gasket	2	PTFE
14	Hex Cap Screw	4	ASTM A307B
15	Hex Nut	4	ASTM A307B
16	Body	1	ASTM A536
17	Stand Pipe	1	ASTM A53
18	Connection Tube	1	AISI 1045
19	Cotter Pin	1	AISI 304
20	Connection Tube Coupling	1	ASTM A536
21	Plug	1	Malleable Iron
22	Cap	1	ASTM A126B
23	Phillips Head Screw	1	AISI 304
24	Lock Hasp	1	ASTM 307B

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TJP Series Resilient - Cross Wall Indicator Post

Model TJP - Cross Wall Indicator Post						
Part Number	Size		A Valve CL to Exterior Wall		Approval & Listings	
	DN	In.	Min.	Max.	UL	FM
TJWP	50	2"	273	2500	√	√
	100	4"	325	2550	√	√
	150	6"	422	2647	√	√
	200	8"	513	2738	√	√
	250	10"	615	2840	√	√
	300	12"	700	2925	√	√



General Purpose Valves - Shut Off Valves

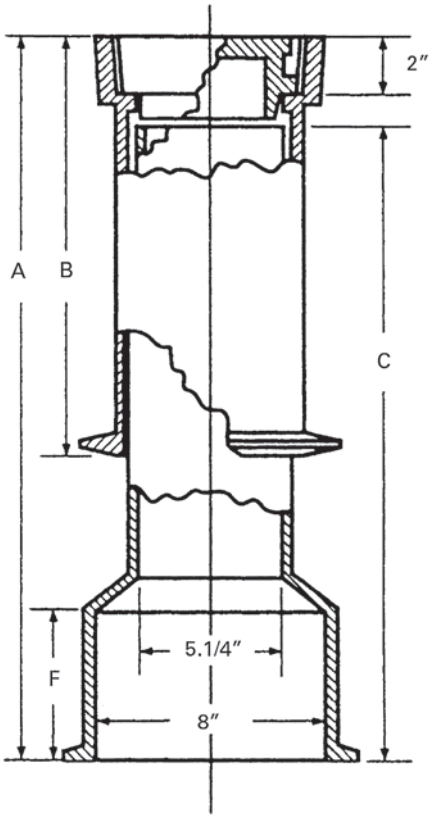
Model 4908

Shut-Off Valve, Road Box Adjustable

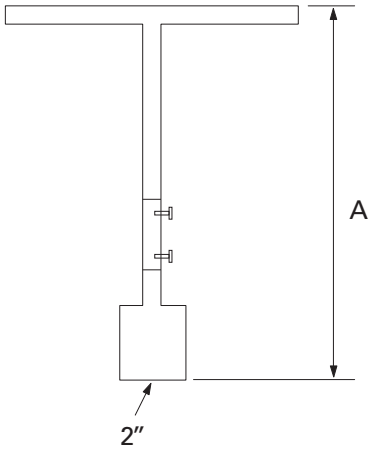
Tech Data Sheet

Contact Tyco for details

Model 4908 Shut-Off Valve						
Part No.		Dimensions mm				Weight kg
Top Section	Bottom Section	A	B	C	F	
54-S	61-S	457-610	267	381	165	26,8
55-S	61-S	584-737	394	381	165	31,5
55-S	62-S	610-914	394	648	165	36,1
55-S	64-S	914-1219	394	914	216	44,0
56-S	62-S	965-1219	673	648	165	41,1
56-S	64-S	914-1524	673	914	216	52,0

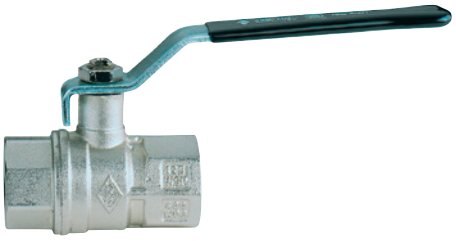


T-Type Wrench		
Part No.	A mm	Weight kg
5050	1220-2440	9



Model 1610

Shut-Off Valve, Ball Valve

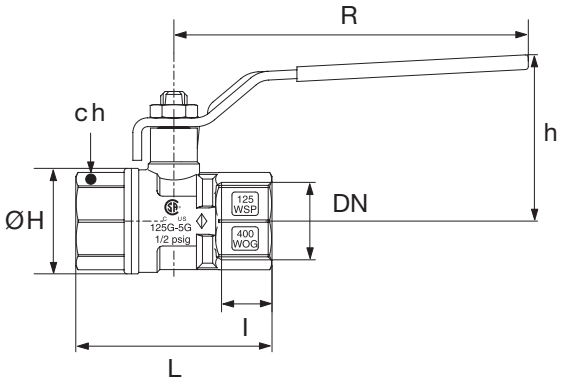


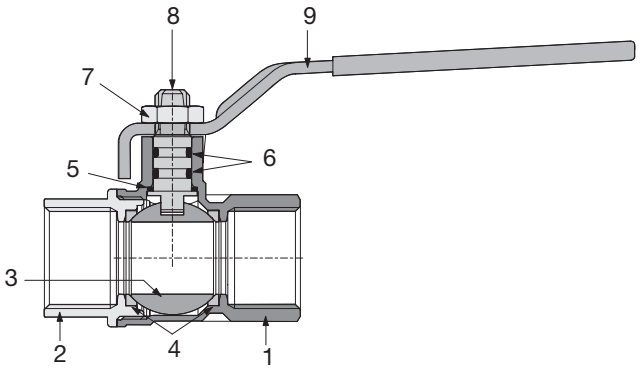
Approvals	CE, UL, & FM
Maximum Service Pressure	27,6 bar (400 PSI)
Tech Data Sheet	**Contact Tyco for details**

Model 1610 Ball Valve Full Bore														
Part Number	Size		PN [Bar]	Dimensions mm						Kv	Weight kg	Approval & Listings		
	DN	BSP		l	L	H	CH	R	h			CE	UL	FM
1610000130	8	1/4"	64	11	52	23	20	95	48	5,4	0,14	√	√	√
1610000170	10	3/8"	64	11	52	23	20	95	48	6	0,13	√	√	√
1610000210	15	1/2"	30	15	59	30	25	96	48	16	0,17	√	√	√
1610000270	20	3/4"	30	16	67	36	31	121	57	30	0,29	√	√	√
1610000340	25	1"	30	19	82	44	38	121	59	43	0,44	√	√	√
1610000420	32	1-1/4"	25	22	94	53	48	151	73	89	0,76	√	√	√
1610000480	40	1-1/2"	25	22	103	65	54	151	79	230	1,02	√	√	√
1610000600	50	2"	25	26	123	80	67	170	94	265	1,75	√	√	√

Ball Valve with Locking Device			
Part Number	DN		Weight
1610LD210	15	1/2" BSP	0,37
1610LD270	20	3/4" BSP	0,49
1610LD340	25	1" BSP	0,64
1610LD420	32	1-1/4" BSP	0,96
1610LD480	40	1-1/2" BSP	1,22
1610LD600	50	2" BSP	1,95

Temperature Range -20°C until +130°C, only suitable for water and pressurized air. No gas.





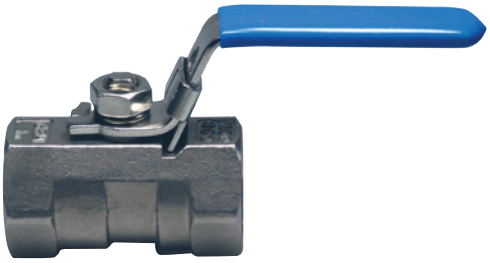
Parts List		
Item No.	Description	Material
1	Body	Brass, Nickel Plated
2	End Connection	Brass, Nickel Plated
3	Ball	Brass, Nickel Plated
4	Ball Seat	PTFE
5	Antifriction Seat	PTFE
6	O-ring	NBR
7	Nut	Steel, Nickel Plated
8	Stem	Steel, Zinc Plated
9	Handle	Steel, Zinc Plated and Plastic Cover

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Shut Off Valves

Model 601

Shut-Off Valve, Ball Valve Stainless Steel Type 316



Maximum Service Pressure	40 bar (580 psi)
Seat	PFTE
Tech Data Sheet	**Contact Tyco for details**

MODEL 601						
Part No.	Dn		PN [Bar]	L mm	Cv	Weight kg
708S00210	15	½" BSP	40	56	7	0,4
708S00270	20	¾" BSP	40	58	9	0,8
708S00340	25	1" BSP	40	78	16	1,5
708S00420	32	1-¼" BSP	40	77	24	1,8
708S00480	40	1-½" BSP	40	82	37	2,0
708S00600	50	2" BSP	40	99	68	2,5

Model 126S

Shut-Off Valve, Angle Valve

Approvals	UL
Maximum Service Pressure	14 bar (203 psi)
Seat	Buna-N
Tech Data Sheet	**Contact Tyco for details**

MODEL 126S Shut-Off Angle Valve						
Part No.	Dn		PN [Bar]	H mm	Weight kg	Approval & Listings UL
126S00210D	15	½" BSP	14	79,4	0,3	
126S00270D	20	¾" BSP	14	82,6	0,5	
126S00340D	25	1" BSP	14	91,3	0,9	
126S00420D	32	1-¼" BSP	14	114,3	1,2	
126S00480D	40	1-½" BSP	14	133,4	1,5	
126S00600D	50	2" BSP	14	142,8	2,4	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

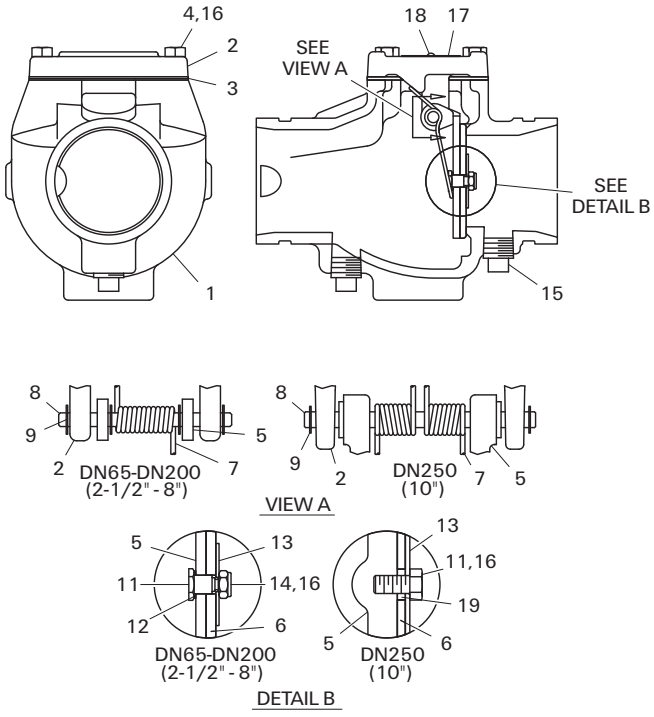
CV-1F

Grooved Check Valve

Sizes	2" thru 10" (DN50 thru DN250)
Approvals	UL, C-UL Listed & FM & VdS Approved Compliance with CE Pressure Equipment Directive (PED) and Standards of Engineering Practice
Maximum Working Pressure	UL/FM - 20,7 bar (300 psi) VdS - 16 bar (232psi)
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Tech Data Sheet	**TFP1550**

Can be installed either vertically or horizontally ■ Cut groove inlet and outlet connections ■ Suitable for use with grooved pipe couplings that are listed or approved for fire protection service

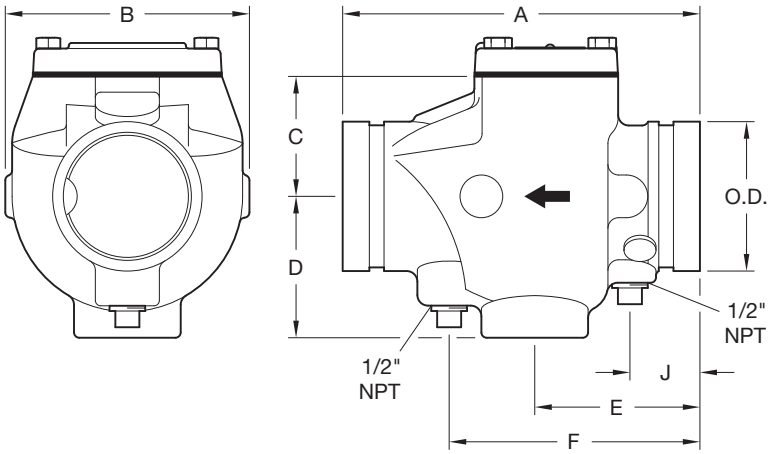
Valve Material Specifications			
Item No.	Description	Material	Qty.
1	Body	Ductile Iron	1
2	Cap	Ductile Iron	1
3	Gasket	Synthetic Fibre	1
4	Hex Cap Screw	Steel, Zinc Plated	AR
5	Clapper	Stainless Steel or Ductile Iron	1
6	Seal Facing	EPDM Grade "E"	1
7	Spring	Stainless Steel	1
8	Hinge Shaft	Stainless Steel	1
9	Retaining Ring	Stainless Steel	AR
10	Washer	Teflon	2
11	Retention Bolt	Stainless Steel	1
12	Seal Ring	Neoprene	1
13	Retaining Disc	Stainless Steel	1
14	Locknut	Stainless Steel	1
15	Plug-1/2"-14 NPT	Cast Iron	2
16	Adhesive	Thread Sealer	AR
17	Nameplate	Aluminium	1
18	Rivet	Steel	2
19	Spacer	Stainless Steel	1



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Check Valves

CV-1F Grooved Check Valve



Part Number	Pipe Size		Dimensions mm							Approx. Weight kg	Approval & Listings			
	Nom.	O.D.	A	B	C	D	E	F	J		VdS	UL	FM	T/S/U
595900020	50	60.3	171,5	111,3	64,8	65,3	82,3	120,7	41,5	4,1	√	√	√	√
595900025	65	73.0	203,2	147,3	86,6	86,4	98,6	152,4	43,2	4,5	√	√	√	√
595900076	65	76,1	203,2	147,3	86,6	86,4	98,6	152,4	43,2	4,5	√	√	√	√
595900030	80	88,9	212,6	146,3	91,4	86,4	98,6	152,4	43,2	5,0	√	√	√	√
595900040	100	114,3	245,6	171,2	117,1	92,2	115,1	181,1	46,7	11,3	√	√	√	√
595900139	125	139,7	266,7	190,5	134,4	106,7	124,5	193,0	48,3	13,2	√	√	√	√
595900050	125	141,3	266,7	190,5	134,4	106,7	124,5	193,0	48,3	13,2	√	√	√	√
595900165	150	165,1	292,1	204,4	146,1	114,3	127,0	193,0	37,6	21,3	√	√	√	√
595900060	150	168,3	292,1	204,4	146,1	114,3	127,0	193,0	37,6	21,3	√	√	√	√
595900080	200	219,1	355,6	260,4	196,9	142,7	138,4	213,4	58,9	29,9	√	√	√	√
595900100	250	273,0	457,2	330,2	259,3	162,1	190,5	266,7	76,2	49,4	√	√	√	√
595900120	300	323,9	533,4	362,7	287,2	7,26	193,5	269,7	69,9	68,0		√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

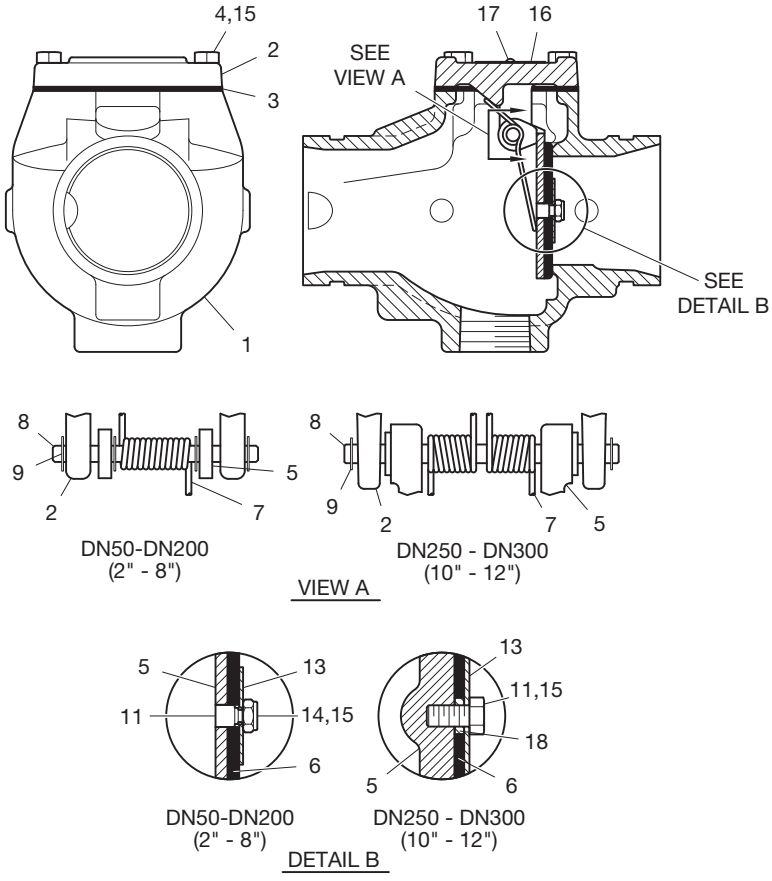
CV-1FR

Grooved-End Riser Check Valve

Sizes	2" thru 12" (DN50 thru DN300)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	20,7 bar (300 psi)
End Connection	Groove x Groove
Tech Data Sheet	**TFP950**

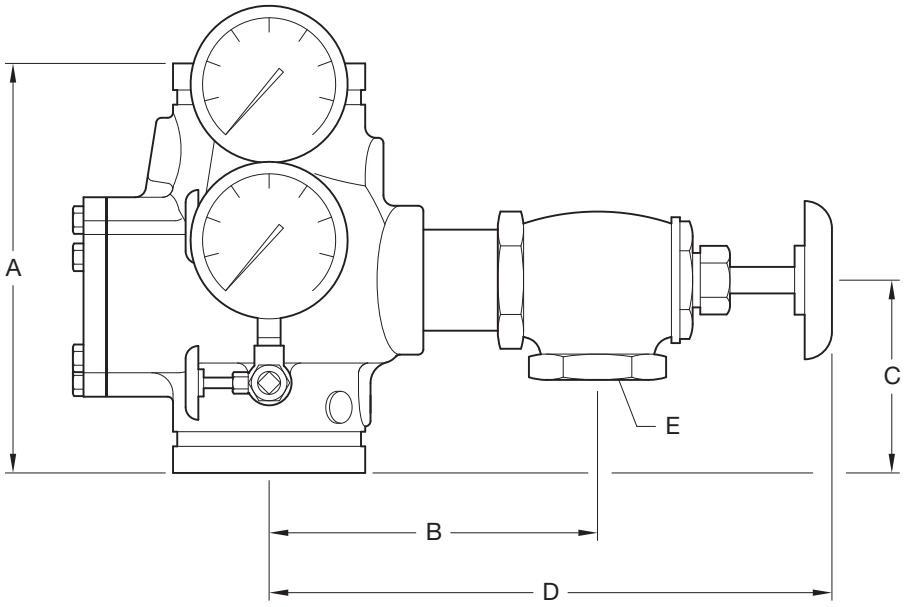
The TYCO Model CV-1FR Grooved-End Riser Check Valve is a compact and rugged swing-type unit that allows water flow in one direction and prevents flow in the opposite direction.

Valve Material Specifications			
Item No.	Description	Material	Qty.
1	Body	Ductile Iron	1
2	Cover	Ductile Iron	1
3	Cover Gasket	Nitrile Rubber	1
4	Hex Cap Screw	Steel, Zinc Plated	AR
5	Clapper 2" - 8" (DN50-200)	Stainless Steel	1
	Clapper 10" - 12" (DN250-300)	Ductile Iron	1
6	Clapper Facing	EPDM Grade "E"	1
7	Spring	Stainless Steel	1
8	Hinge Shaft	Stainless Steel	1
9	Retaining Ring	Stainless Steel	AR
11	Retention Bolt	Stainless Steel	1
13	Retaining Disc	Stainless Steel	1
14	Locknut	Stainless Steel	1
15	Adhesive	Thread Sealer	AR
16	Nameplate	Aluminium	1
17	Rivet	Steel	2
18	Spacer	Stainless Steel	1



General Purpose Valves - Check Valves

CV-1FR - Grooved-End Riser Check Valve



Part Number	Pipe Size		Dimensions mm					Approx. Weight kg	Approval & Listings		
	Nom.	O.D.	A	B	C	D	E		UL	FM	Fire Academy of Russia
595901020	50	60.3	171,5	149,1	82,6	241,9	1"	4.5	√	√	√
595901025	65	73.0	203,2	169,2	98,3	274,3	1-¼"	4.5	√	√	√
595901076	65	76,1	203,2	169,2	98,3	274,3	1-¼"	4.5	√	√	√
595901030	80	88,9	212,6	174,8	98,3	279,9	1-¼"	5.0	√	√	√
595901040	100	114,3	244,6	193,7	115,1	302,7	2"	11.3	√	√	√
595901139	125	139,7	266,7	206,4	124,5	315,4	2"	13.2	√	√	√
595901050	125	141,3	266,7	206,4	124,5	315,4	2"	13.2	√	√	√
595901165	150	165,1	292,1	215,8	127,0	324,8	2"	21.3	√	√	√
595901060	150	168,3	292,1	215,8	127,0	324,8	2"	21.3	√	√	√
595901080	200	219,1	355,6	241,7	138,7	350,7	2"	30.0	√	√	√
595901100	250	273,0	457,2	264,3	190,5	373,3	2"	49.4	√	√	√
595901120	300	323,9	533,4	286,1	193,5	395,2	2"	68.0		√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

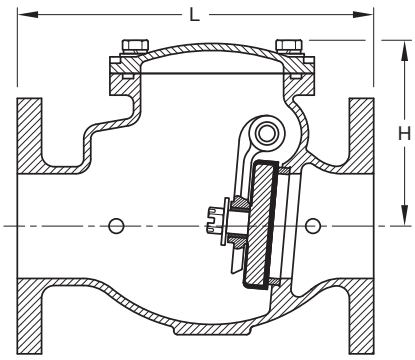
Model TJCV

Swing Type Flanged Check Valve

Sizes	DN50 - DN300 (2" - 12")
Approvals	UL/ULC Listed & FM Approved, Conforms to AWWA C508
Maximum Working Pressure	20,7 bar (300 psi)
End Connection	Flanged ANSI Clas 125 / PN16
Tech Data Sheet	**TFP1563**

The TYCO Model TJCV Check Valve Swing Type Flange End is a compact and rugged swing type unit that allows water flow in one direction and pre-vents flow in the opposite direction ■ The valve is designed to minimize water hammer caused by flow reversal ■ Installation can be in a horizontal position (with cover in the upward position), or vertical position (upward flow only) ■ A resilient elastomer seal ensures a leak-tight seal and non-sticking operation ■ Removable cover for ease of field maintenance

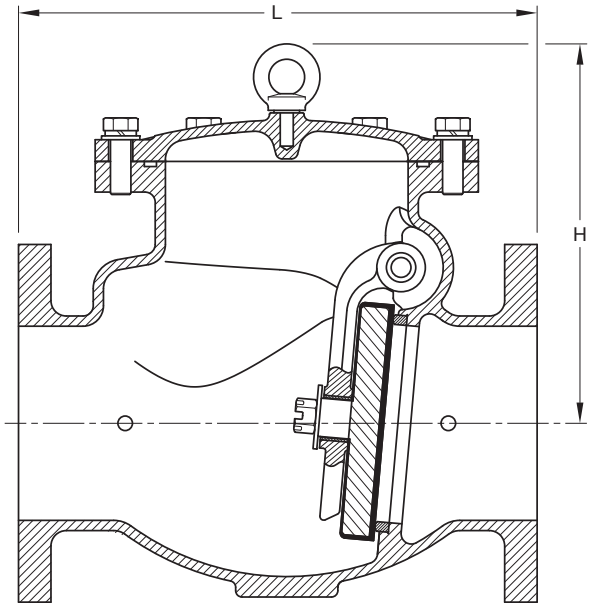
Model TJCV Swing Type Flanged Check Valve								
Part No.		DN		Dimensions mm		Weight	Approval & Listings	
ANSI 125	PN16			H	L	kg	UL	FM
595902021	595902020	50	2"	117	203		√	√
595902026	595902025	65	2-½"	128	254		√	√
595902031	595902030	80	3"	128	279		√	√
595902041	595902040	100	4"	222,5	330		√	√
595902061	595902060	150	6"	297	406		√	√
595902081	595902080	200	8"	365	495		√	√
595902101	595902100	250	10"	417,5	559		√	√
595902121	595902120	300	12"	453	660		√	√



2 in. to 3 in. (DN50 to DN80)

Parts List	
Description	Material
Body	Ductile Iron*
Cover	Ductile Iron*
Clapper	Carbon Steel**
Clapper Arm	Ductile Iron*
Hinge Pin	Stainless Steel AISI 304
Seat	Bronze

* Ductile iron conforming to ASTM A-536, Grade 65-5-12
** Carbon steel conforming to A36 SS304 EPDM



4 in. to 12 in. (DN100 to DN300)

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

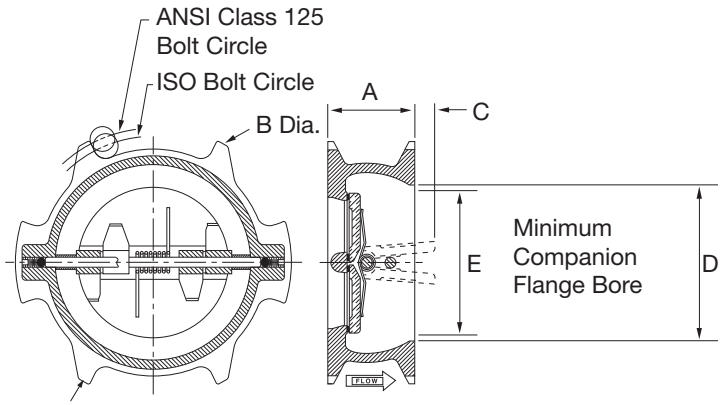
General Purpose Valves - Check Valves

Model 8800

Wafer Double Door ANSI PN10/PN16 Flanges Check Valve

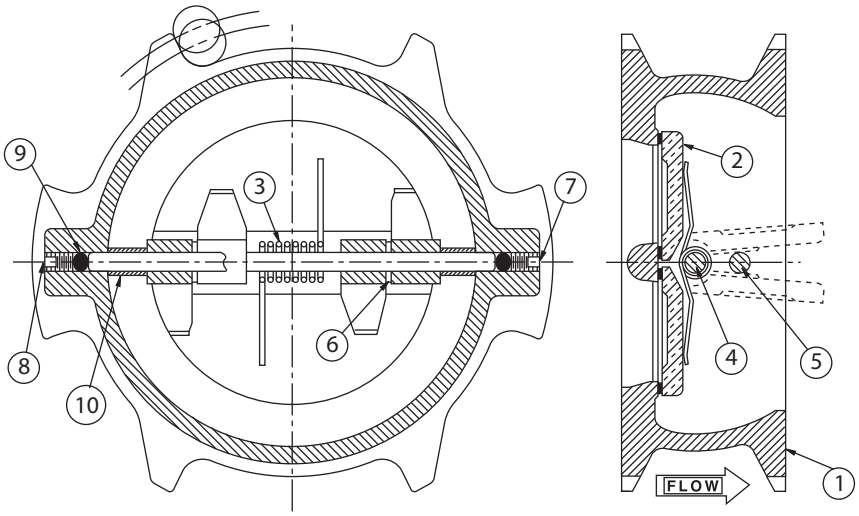
Sizes	DN50 - DN300 (2" - 12")
Approvals	UL Listed & FM Approved
Maximum Working Pressure	12,1 bar (175 psi)
End Connection	Wafer - ANSI PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Wafer style double door check valve



Model 8800 Wafer Double Door ANSI Check Valve										
Part No.	DN		Dimensions mm					Weight kg	Approval & Listings	
			A	B	C	D	E		FM	UL
880000600	50	2"	54	130	0	73	0	1,8	√	√
880000890	80	3"	67	143	5	99	43	3,2	√	√
880001140	100	4"	67	197	16	121	78	4,1	√	√
880001680	150	6"	95	219	21	159	108	8,6	√	√
880002190	200	8"	127	311	25	203	140	17,2	√	√
880002730	250	10"	140	375	52	260	216	29,5	√	√
880003240	300	12"	181	441	49	305	235	42,6	√	√

Parts List	
Item No.	Description
1	Body
2	Disc
3	Torsion Spring
4	Disc Hinge Pin
5	Disc Stop Pin
6	Disc Thrust Bearing
7	Hinge Pin Retainer
8	Stop Pin Retainer
9	Stabilization Sphere
10	Spacer



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model C

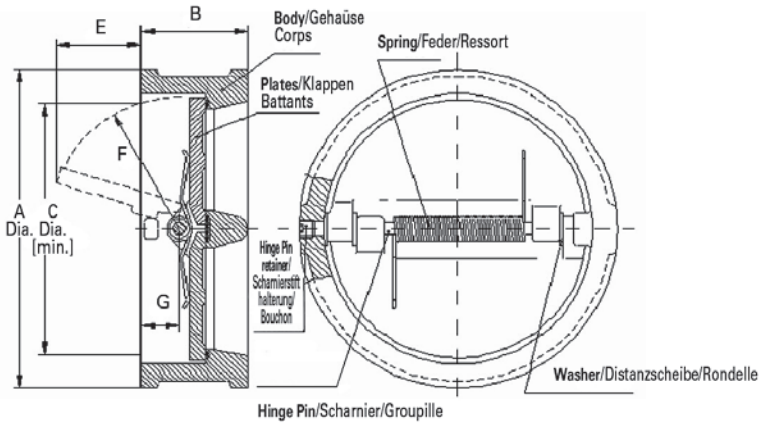
Twin Plate Wafer Check Valve

Sizes	DN50 - DN300 (2" - 12")
Approvals	CE, VNIIPO
Maximum Working Pressure	16 bar (230 psi)
End Connection	Wafer - ANSI PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Wafer style twin plate check valve

Model C Wafer Twin Plate Check Valve											
Part No.	DN		Dimensions mm						Approval & Listings		
			A	B	C	E	F	G	CE	Fire Academy of Russia	VNIIPO
C7310604	50	2"	108	43	58	12	33	22	√	√	√
C7310764	65	2-1/2"	128	46	58	12	33	25	√	√	√
C7310894	80	3"	143	64	71	18	41	33	√	√	√
C73101144	100	4"	163	64	96	28	52	26	√	√	√
C10701683	150	6"	219	76	128	33	70	35	√	√	√
C10702193	200	8"	275	89	192	60	104	36	√	√	√
C10702733	250	10"	329	114	244	81	126	48	√	√	√
C10703243	300	12"	380	114	295	100	153	49	√	√	

Parts List	
Item No.	Description
Body	Cast iron
Seat	EPDM



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

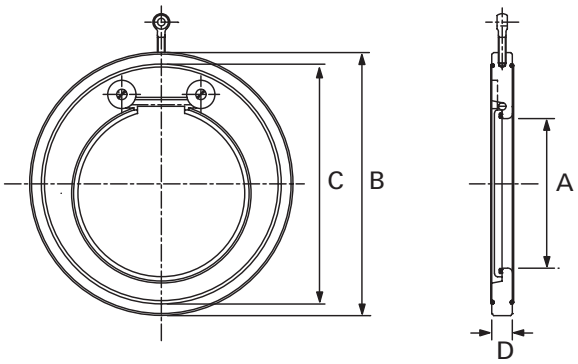
General Purpose Valves - Check Valves

Model 85

Wafer Check Valve

Sizes	DN40 - DN80 (1-1/2" - 3")
Maximum Working Pressure	16 bar (230 psi)
Body	Stainless Steel Type 316
Seat	NBR
End Connection	Wafer - ANSI PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Wafer style check valve

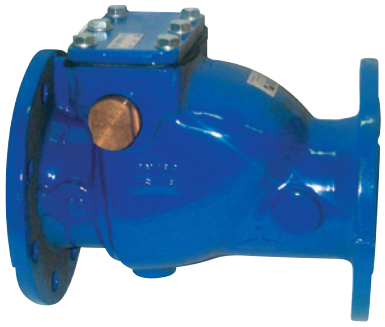


Model 85 Wafer Check Valve								
Part No.	DN		Dimensions mm					Weight kg
			A	B	C	D	E	
85200DN40	40	1-1/2"	22	95	79	14	23	0,7
85200DN50	50	2"	32	109	87	14	49	0,9
85200DN65	65	2-1/2"	40	129	109	14	75	1,2
85200DN80	80	3"	54	144	119	14	126	1,5

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

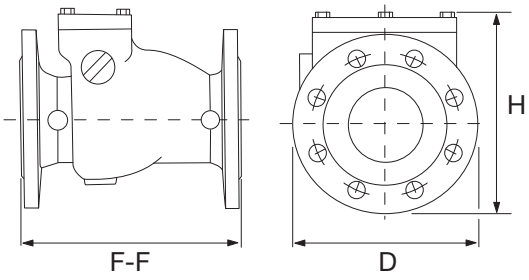
Model Reto Stop

Flange Check Valve



Sizes	DN50 - DN300 (2" - 12")
Approvals	WRC
Maximum Working Pressure	16 bar (230 psi)
Body	Ductile Iron
Coating	Epoxy Blue
End Connection	Flange - ANSI PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Flanged check valve



Model RETO STOP Check Valve									
Part No.	DN		Pn Bar	Dimensions mm			Temp °C	Weight kg	Approval & Listings
				F-F	H	D			WRC
NO403	80	3"	16	241	225		65	15	√
NO369	100	4"	16	292	250		65	22	√
NO374	150	6"	16	356	330		65	35	√
NO379	200	8"	16	495	385		65	60	√
NO384	250	10"	16	622	395		65	105	√
NO389	300	12"	16	698	538		65	139	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

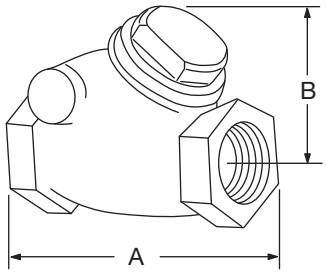
General Purpose Valves - Check Valves

Model 62S

Threaded Check Valve

Sizes	DN15 - DN50 (½" - 2")
Maximum Working Pressure	27 bar (392 psi)
Body	Bronze
Seat	Buna-N
End Connection	NPT Threads
Tech Data Sheet	**Contact Tyco for details**

For horizontal installation only ■ Valve is NOT spring loaded



Model RETO STOP Check Valve						
Part No.	DN		Pn Bar	Dimensions mm		Weight kg
				A	B	
62S00210D	15	½" NPT	27	67,5	38,9	0,4
62S00270D	20	¾" NPT	27	78,6	47,6	0,6
62S00340D	25	1" NPT	27	89,7	53,2	0,8
62S00420D	32	1-¼" NPT	27	130,2	92,1	2,6
62S00480D	40	1-½" NPT	27	130,2	92,1	2,6
62S00600D	50	2" NPT	27	141,3	115,9	4,5

For horizontal installation only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model N5

Flange Check Valve

Sizes	DN15 - DN50 (½" - 2")
Maximum Working Pressure	12 - 16 bar (174 - 232 psi)
Body	Brass
Coating	Epoxy Blue
End Connection	BSP Threads
Tech Data Sheet	**Contact Tyco for details**

Suitable for Water, oil and air. Max. 100°C ■ For vertical installation only ■ Valve is NOT spring loaded

Model RETO STOP Check Valve					
Part No.	DN		Pn Bar	Dimensions mm Length	Weight kg
N500210	15	½" BSP	16	47	0,2
N500270	20	¾" BSP	16	54,5	0,3
N500340	25	1" BSP	16	64,5	0,5
N500420	32	1-¼" BSP	12	75,5	0,6
N500480	40	1-½" BSP	12	83	0,7
N500600	50	2" BSP	12	98	1,0

For vertical installation only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Strainers

Model TJST

"Y" Flanged Strainer

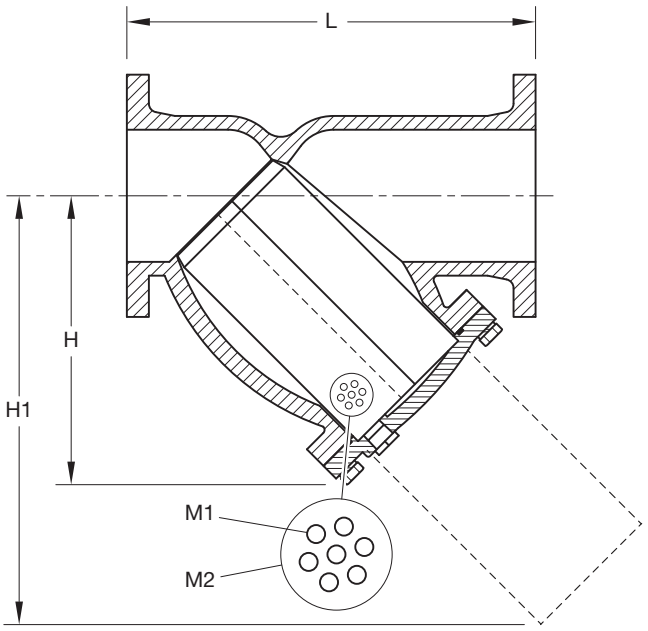
Sizes	DN50 - DN300 (2" - 12")
Approvals	UL/ULC Listed
Maximum Working Pressure	20,7 bar (300 psi)
End Connection	Flanged ANSI Clas 125 / PN16
Tech Data Sheet	**TFP1564**

The TYCO Model TJST Y-Strainer provides strainer protection for piping equipment such as pumps, meters, valves, compressors, traps and similar equipment. ■ Flanged ends ■ Standard screen made of perforated stainless steel

Model TJST Flanged "Y" Strainer												
Part No.		DN		Dimensions mm					Weight kg	Pressure Loss bar	Approval & Listings	
							Mesh Data					
ANSI 125	PN16			L	H	H1	M1 Hole Dia.	M2 Number of Holes per Square Inch			UL	FM
596001021	596001020	50	2"	203	132	195	3,18	30		0,50	√	√
596001026	596001025	65	2-½"	254	158	240	3,18	30		0,41	√	√
596001031	596001030	80	3"	260	175	270	3,4	35		0,57	√	√
596001041	596001040	100	4"	308	202	320	4,78	17		0,41	√	√
596001061	596001060	150	6"	472	334	495	6,0	10		0,33	√	√
596001081	596001080	200	8"	550	391	570	6,0	10		0,40	√	√
596001101	596001100	250	10"	654	460	700	6,0	10		0,50	√	√
596001121	596001120	300	12"	762	590	840	6,0	10		0,40	√	√

Material List	
Description	Material
Body	Ductile Iron*
Cover	Ductile Iron*
Screen	Stainless Steel AISI 304
Gasket	EPDM Rubber**
Plug	Carbon Steel

* Ductile iron conforming to ASTM A-536, Grade 65-5-12
** Ethylene propylene diene monomer rubber



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

760P

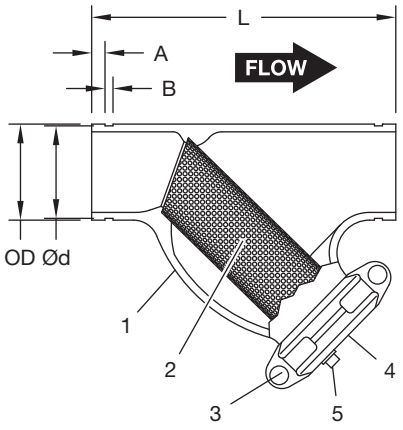
"Y" Strainer

Approvals	UL Listed
Maximum Working Pressure	DN50 thru DN150 - 20,7 bar (300 psi) DN200 thru DN300 - 12 bar (175 psi)
Temperature Rating	0° to 100°C (32° to 200°F)
Screen	Stainless Steel Type 304
Body and Cover	ASTM A-536, Grade 65-45-12
End Connection	Grooved
Tech Data Sheet	G422

The Figure 760P "Y" Strainer provides economical strainer protection for piping equipment such as pumps, meters, valves, compressors, traps and similar equipment, from debris and foreign matter.

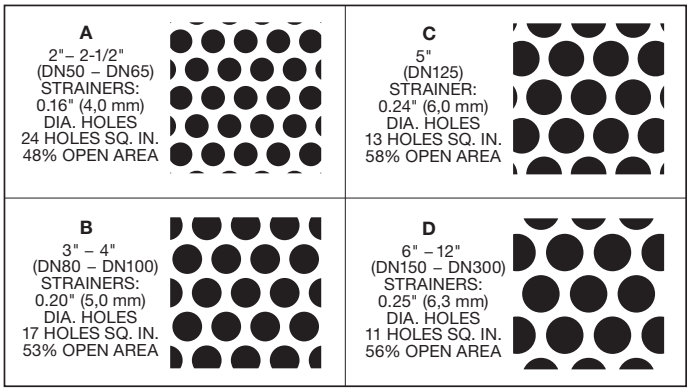
Figure 760P - "Y" Strainer

Part No.	Nominal Size		Nominal Dimensions				Approval & Listings
	ANSI	OD	Ød	A	B	L	UL
760P000601	50	60.3	57.2	15.9	7.9	247.5	√
760P000731	65	73.0	69.1	15.9	7.9	273.0	√
760P000761	65	76.1	69.1	15.9	7.9	298.5	√
760P000891	80	88.9	84.9	15.9	7.9	362.0	√
760P001141	100	114.3	110.1	15.9	9.6	419.0	√
760P001391	125	139.7	137.0	15.9	9.6	419.0	√
760P001411	125	141.3	137.0	15.9	9.6	419.0	√
760P001651	150	165.1	164.0	15.9	9.6	470.0	√
760P001681	150	168.3	164.0	15.9	9.6	470.0	√
760P002191	200	219.1	214.4	19.1	11.1	609.5	√
760P002731	250	273.1	268.3	19.1	12.7	686.0	√
760P003241	300	323.9	318.3	19.1	12.7	762.0	√



Material List

No.	Description	Material
1	Valve Body	ASTM A536, 65-45-12
2	Screen	AISI 304
3	Rigid Coupling	ASTM A536, 65-45-12
4	Cap	ASTM A536, 65-45-12
5	Plug	Malleable Iron Galvanized or Bronze ASTM B564

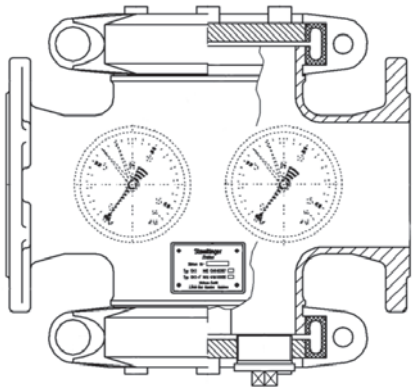


Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Strainers

F

ANSI Flanged Cross Strainer



Approvals	UL Listed
Maximum Working Pressure	10 - 16 bar (145 - 232 psi)
Body	Cast Iron GGG50
End Connection	ANSI 125 Flange
Tech Data Sheet	**Contact Tyco for details**

Table								
Part No.		Dn	Pn [Bar]	Dimensions mm			Weight kg	Approval & Listings
Without Gauges	With Gauges			A	H1	H2		VDS
840653	126303	80	16	310	165	115	19	√
840654	126303	100	16	350	160	150	30	√
840655	126303	150	16	450	260	170	57	√
841088	126303	200	10	550	355	195	95	√

Spare Part	
Part No.	Plug
195524	2pcs.

Plugs needed when Guages are not ordered

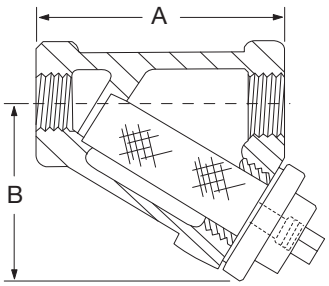
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

807

AQUAMIST Strainer

Sizes	DN25 - DN50 (1" - 2")
Maximum Working Pressure	32 bar (464 psi)
Screen Holes	0.75mm
Screen	Stainless Steel Type 304
Body	Gunmetal
End Connection	BSP Thread
Tech Data Sheet	**Contact Tyco for details**

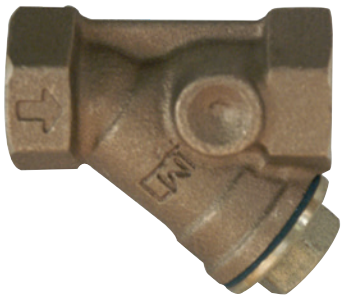
Model 807								
Part No.	DN		PN [Bar]	Dimensions mm		Cv	Kv	Weight
				A	B			
8070347	25	1" BSP	32	95	89	17.5	15.1	0.9
8070427	32	1-1/4" BSP	32	115	97	30.6	26.4	1.5
8070487	40	1-1/2" BSP	32	130	116	37	31.9	1.8
8070607	50	2" BSP	32	153	159	60.9	52.5	3.3



General Purpose Valves - Strainers

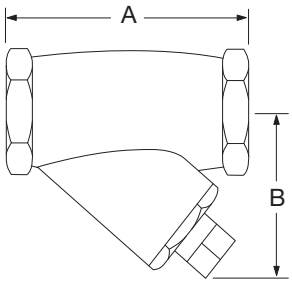
74A

Strainer



Sizes	DN15 - DN50 (1/2" - 2")
Maximum Working Pressure	20 bar (290 psi)
Screen Holes	0.65mm
Screen	Stainless Steel Type 304
Body	Bronze
End Connection	BSP Thread
Tech Data Sheet	**Contact Tyco for details**

Model 74A						
Part No.	DN		PN [Bar]	Dimensions mm		Weight
				A	B	
305003	15	1/2" BSP	20	59	40	0.23
305004	20	3/4" BSP	20	66	46	0.5
305005	25	1" BSP	20	76	58	1
305006	32	1-1/4" BSP	20	92	70	1.2
305007	40	1-1/2" BSP	20	100	80	2
305009	50	2" BSP	20	125	100	2.5



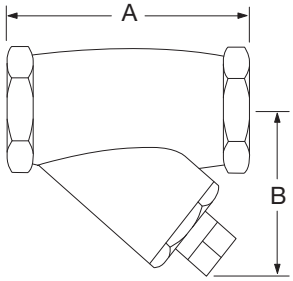
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

557

Strainer

Sizes	DN15 (1/2")
Maximum Working Pressure	12,1 bar (175 psi)
Screen Holes	50 mesh
Screen	Stainless Steel Type 304
Body	Bronze
End Connection	BSP Thread
Tech Data Sheet	**Contact Tyco for details**

MODEL 557						
Part No.	DN		PN [Bar]	Dimensions mm		Weight
				A	B	
20005025	15	1/2" NPT	12	74.7	50.8	0.4



General Purpose Valves - Hydrants

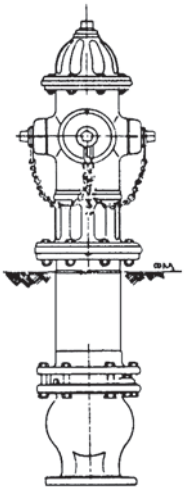
Super Centurion Straight

Super Centurion Hydrant with Straight Connection

Sizes	4" - 6"
Maximum Working Pressure	2-Way: 13,8 bar (200 psi) 3-Way: 17,2 bar (250 psi)
End Connection	Flange ANSI PN10/PN16
Wrench	A-311 1-1/2" Pentagon
Tech Data Sheet	**Contact Tyco for details**

Order by specification. ■ Examples of Part No. with standard US outlets

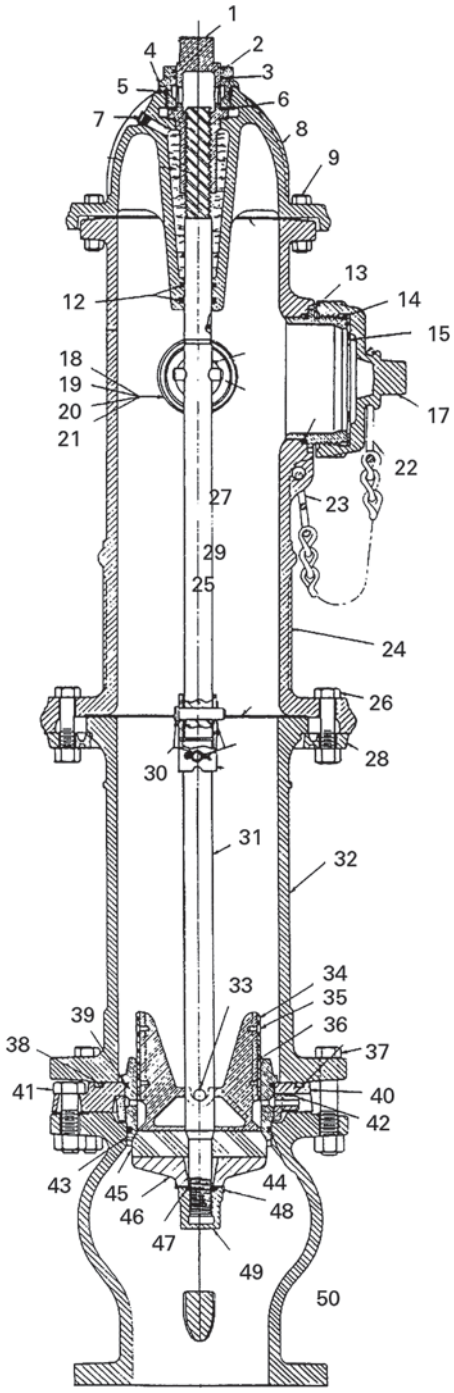
Model Super Centurion + Straight Conn.									
Part No.	Model	Shoe	2 or 3 Way	Hose Nozzle	Pumper Nozzle	Main Valve mm	Bury mm	Weight kg	Approval & Listings
									FM
420-513664	A420	4" PN10	2	2 x 2-1/2"	-	114	1067	170	
420-511536	A420	4" ANSI	2	2 x 2-1/2"	-	114	1219	170	
421-511535	A421	6" ANSI	3	2 x 2-1/2"	4-1/2	114	1219	180	√



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Super Centurion Straight

Parts List		
Nr.	Discription	Material
1	Operating nut	Bronze
2	Wiper ring	Rubber
3	Hold down nut "O" ring	Rubber
4	Hold down nut	Bronze
5	Bonnet "O" ring	Rubber
6	Anti-friction washer	Plastic
7	Oil filler plug	Brass
8	Bonnet	Cast Iron
9	Bonnet Bolts	Steel
10	Bonnet Gasket	Rubber
11	Upper stem	Steel
12	Stem "O" rings	Rubber
13	Nozzle lock	Stainless steel
14	Pumper nozzle	Bronze
15	Pumper nozzle gasket	Rubber
16	Pumper nozzle "O" ring	Rubber
17	Pumper nozzle cap	Cast iron
18	Hose nozzle	Bronze
19	Hose nozzle gasket	Rubber
20	Hose nozzle "O" ring	Rubber
21	Hose nozzle cap	Cast iron
22	Chains	Steel
23	Chain connector hook	Steel
24	Upper barrel	Cast iron
25	Safety stem coupling	Steel
26	Safety flange bolt	Steel
27	Safety flange gasket	Rubber
28	Safety flange	Cast iron
29	Cotter pins	Stainless steel
30	Clevis pins	Stainless steel
31	Lower stem	Steel
32	Lower barrel	Cast iron
33	Stem pin	Stainless steel
34	Drain valve facing	Plastic
35	Drain valve facing screw	Stainless steel
36	Upper valve plate	Bronze
37	Shoe bolt	Steel
38	Drain ring housing gasket	Rubber
39	Top seat ring "O" ring	Rubber
40	Drain ring housing	Cast iron
41	Drain ring housing bolt	Steel
42	Drain ring	Bronze
43	Seat ring	Bronze
44	Bottom seat ring "O" ring	Rubber
45	Main valve	Rubber
46	Lower valve plate	Cast iron
47	Cap nut seal	Rubber
48	Lock washer	Stainless steel
49	Cap nut	Cast iron
50	Shoe	Cast iron



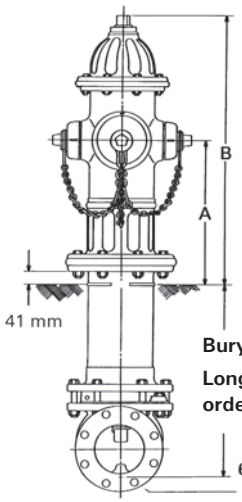
General Purpose Valves - Hydrants

Super Centurion Duck Foot

Super Centurion Hydrant with Duck Foot

Approvals	UL Listed & FM Approved
Maximum Working Pressure	2-Way: 13,8 bar (200 psi) 3-Way: 17,2 bar (250 psi)
End Connection	Flange ANSI PN10/PN16
Wrench	A-311 1-1/2" Pentagon
Tech Data Sheet	**Contact Tyco for details**

Order by specification. ■ Examples of Part No. with standard US outlets



Bury depth of 1'6" minimum.
Longer versions can be ordered in 6" intervals

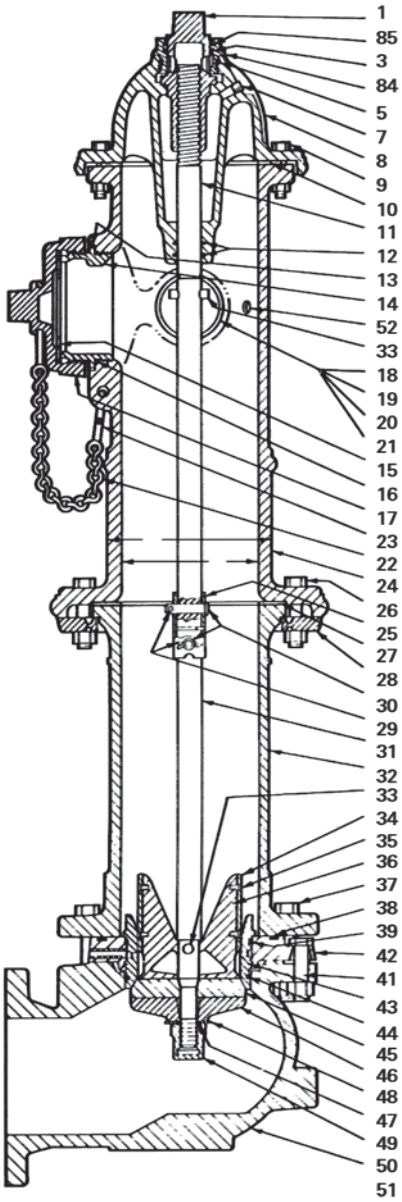
ANSI 125 Flanged

Model Super Centurion + Duck Foot											
Part No	Model	2 or 3 Way	Hose Valve/ Nozzle	Pumper Nozzle	Main Valve	Bury	Dimensions mm		Weight kg	Approval & Listings	
							A	B		UL	FM
433-508179	A433	2	nozzle	-	114	1219	451	794	180	√	√
421-500358	A421	3	nozzle	4-1/2	114	1219	451	794	185	√	√
435-504195	A435	2	nozzle	-	133	1219	438	784	180	√	√
423-500158	A423	3	nozzle	4-1/2	133	1219	438	784	185	√	√
433-519499	A433	2	valve A-373	-	114	1219	451	794	180	√	√
421-520731	A421	3	valve A-373	4-1/2	114	1219	451	794	185	√	√
435-519515	A435	2	valve A-373	-	133	1219	438	784	180	√	√
421-500357	A421	3	nozzle	4-1/2	114	1067	451	794	180	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Super Centurion Duck Foot

Parts List		
Nr.	Discription	Material
1	Operating nut	Bronze
2	Weather seal	Rubber
3	Hold down nut "O" ring	Rubber
4	Hold down nut	Bronze
5	Bonnet "O" ring	Rubber
7	Oil filler plug	Brass
8	Bonnet	Cast Iron
9	Bonnet Bolts & nut	Steel
10	Bonnet Gasket	Rubber
11	Upper stem	Steel
12	Stem "O" rings	Rubber
13	Nozzle lock	Stainless steel
14	Pumper nozzle	Bronze
15	Pumper nozzle gasket	Bronze
16	Pumper nozzle O-Ring	Rubber
17	Pumper nozzle cap	Rubber
18	Hose nozzle	Bronze
19	Hose nozzle gasket	Rubber
20	Hose nozzle "O" ring	Rubber
21	Hose nozzle cap	Cast Iron
23	Chains connector ring	Steel
22	Chain	Steel
24	Upper barrel	Cast Iron
26	Safety flange bolt & nut	Steel
25	Safety stem coupling	Steel
27	Safety flange gasket	Rubber
28	Safety flange	Cast Iron
30	Clevis pins	Stainless steel
29	Cotter pins	Stainless steel
31	Lower stem	Steel
32	Lower barrel	Cast Iron
33	Stem pin	Stainless steel
34	Drain valve facing	Plastic
35	Drain valve facing screw	Stainless steel
36	Upper valve plate	Bronze
37	Shoe bolt & nut	Steel
38	Drain ring gasket	Rubber
39	Top seat ring "O" ring	Rubber
42	Drain ring	Bronze
41	Drain ring bolt & nut	Steel
43	Seat ring	Bronze
44	Bottom seat ring "O" ring	Rubber
45	Main valve	Rubber
46	Lower valve plate	Cast Iron
48	Cap nut seal	Rubber
47	Lock washer	Stainless steel
49	Cap nut	Cast Iron
50	Shoe	Cast Iron
51	Hydratant lubricating oil	
52	Plug	

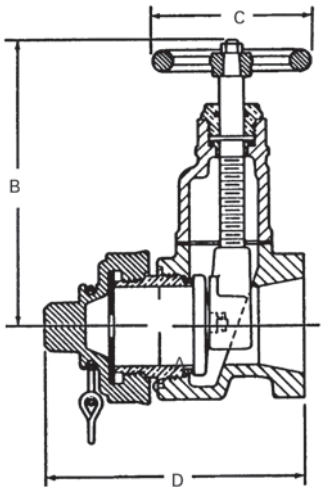


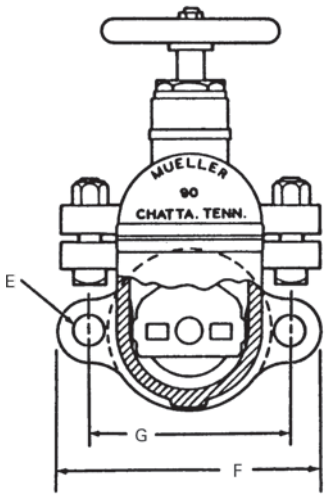
General Purpose Valves - Hydrants

Model A-373

Hose Gate Valve for use with Super Centurion Hydrant

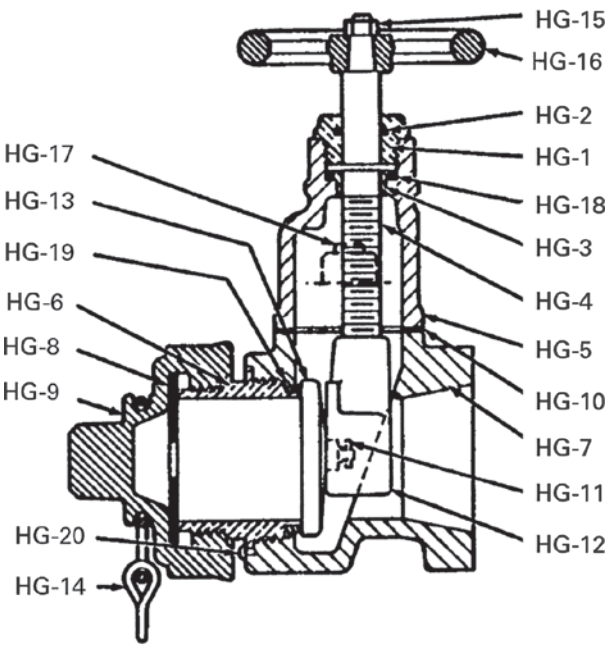
Approvals	UL Listed & FM Approved
Maximum Working Pressure	12,1 bar (175 psi)
Tech Data Sheet	**Contact Tyco for details**





Model A-373 for Super Centurion Hydrants											
Part No	Dn		Dimensions mm							Weight kg	Approval & Listings	
			A	B	C	D	E	F	G		UL	FM
A37300765	65	2-½" NST	64	229	127	208	22	187	143	7,5	√	√

parts list		
Nr.	Discription	Material
HG-1	Stuffing box	Bronze
HG-2	"O" ring packing	Rubber
HG-3	Bonnet bushing	Bronze
HG-4	Stem	Manganese bronze
HG-5	Bonnet	Cast Iron
HG-6	Hose nozzle	Bronze
HG-7	Body	Cast Iron
HG-8	Hose nozzle gasket	Rubber
HG-9	Hose nozzle cap	Cast Iron
HG-10	Bonnet gasket	Rubber
HG-11	Cotter pin	Brass
HG-12	Wedge nut	Bronze
HG-13	Disc	Bronze
HG-14	Chain	Steel
HG-15	Cap nut	Steel
HG-16	Handwheel	Ductile iron
HG-17	Bonnet bolt	Steel
HG-18	"O" ring	Rubber
HG-19	Valve seat	Rubber
HG-20	Retaining rivet	Copper



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model 70B

Hose Gate Valve

Approvals	UL Listed & FM Approved
Maximum Working Pressure	12,1 bar (175 psi)
Tech Data Sheet	**Contact Tyco for details**

Model CIM 70B including STORZ Coupling & Cap						
Part No	DN		PN [Bar]	Coupling	Length mm	Weight kg
70C00601	50	2″ BSP	16	STORZ C [66mm]	72	2,4
70C00763	65	2-½″ BSP	16	STORZ B [89 mm]	80	3,4

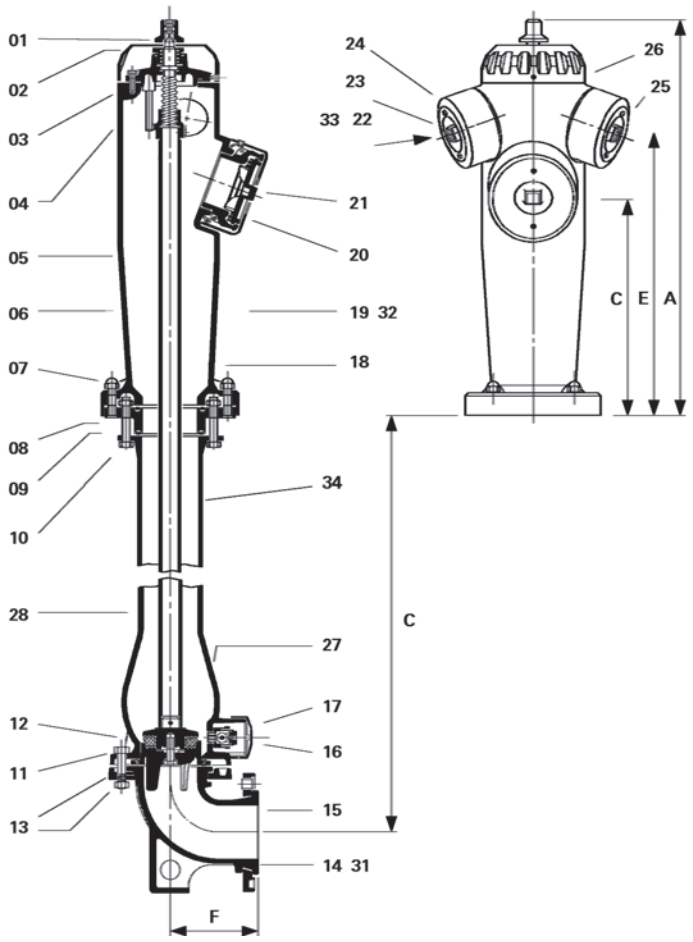
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Hydrants

Saphir

Hydrants

Tech Data Sheet | Contact Tyco for details

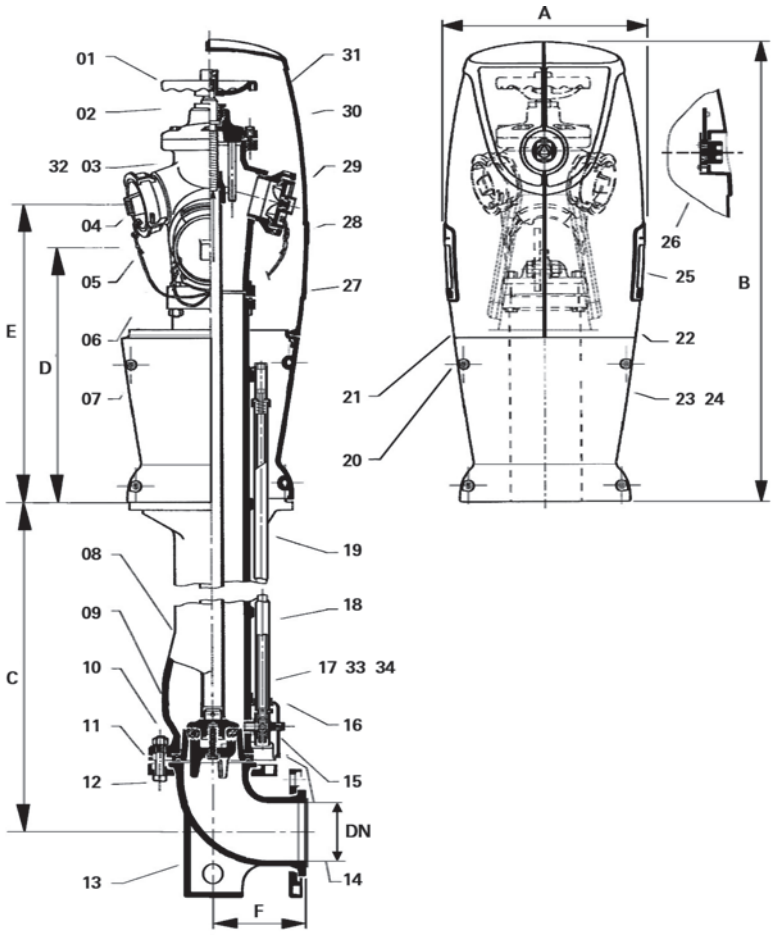


Model Saphir											
Part No	DN	Nom. Flow in m3/h	Flanges	Outlets	Turns to Open	Dimensions mm					Weight kg
						A	C	D	E	F	
SAPH001	80	30	ISO	1 x 65 + 2 x 40	13	665	1000	430	480	135	66
SAPH002	100	60	ISO	1 x 100 + 2 x 65	13	770	1000	440	545	160	96
SAPH003	100 CHOC	60	ISO	1 x 100 + 2 x 65	13	750	1000	420	525	160	113
SAPH004	150CHOC	120	ISO	2 x 100 + 1 x 65	17	780	1000	420	550	195	182

EMERAUDE CS

Hydrants

Tech Data Sheet | Contact Tyco for details



Model Emeraude CS											
Part No	DN	Nom. Flow in m3/h	Flanges	Outlets	Turns to Open	Dimensions mm					Weight kg
						A	C	D	E	F	
CS00890	80	30	ISO	1 x 65 + 2 x 40	13	350	800	1040	435	560	135
CS01140	100	60	ISO	1 x 100 + 2 x 65	13	350	800	1000	450	525	160
CS11140	100 CHOC	60	ISO	1 x 100 + 2 x 65	13	350	800	1000	450	525	160
CS01680	150 CHOC	120	ISO	2 x 100 + 1 x 65	17	350	800	1000	450	525	195

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Test Equipment

Model 1000

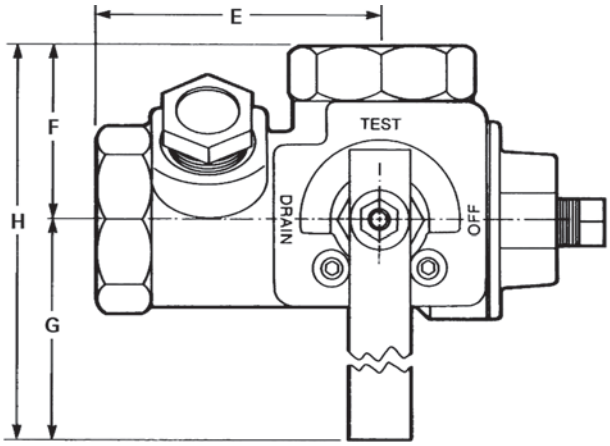
Test and Drain Valve

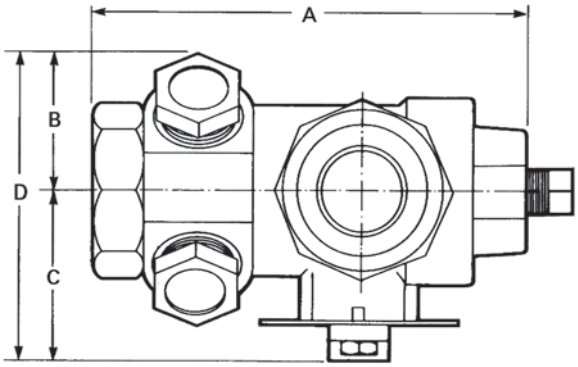
Approvals	UL Listed & FM Approved
Maximum Working Pressure	20,7 bar (300 psi)
End Connection	Threaded NPT or BSP
Tech Data Sheet	**Contact Tyco for details**

Model 1000														
Part No		DN		Dimensions mm								Weight kg	Approval & Listings	
BSP	NPT			A	B	C	D	E	F	G	H		UL	FM
1000N027-	1000N027-	20	3/4"	129	45	60	105	86	45	116	160	2	√	
1000B034-	1000N034-	25	1"	129	45	60	105	86	45	116	160	2	√	√
1000B042-	1000N042-	32	1-1/4"	138	45	73	117	84	49	140	189	2,5	√	√
1000B048-	1000N048-	40	1-1/2"	151	45	94	138	89	60	205	265	4	√	√
1000B060-	1000N060-	50	2"	151	45	94	138	89	60	205	265	4	√	√

Part Number Suffix Selection		
Suffix	Orifice Size	K
0	3/8"	40
1	7/16"	57
2	1/2"	80
3	17/32"	115
*4	5/8"	160*
*5	3/4"	200*/242*
*7	-	363

Parts List	
Description	Material
Body	Bronze
Handle	Steel
Seat	Impregnated Teflon
Handle Lock	Spring Steel
Sight Glass	Fused Tempered Glass



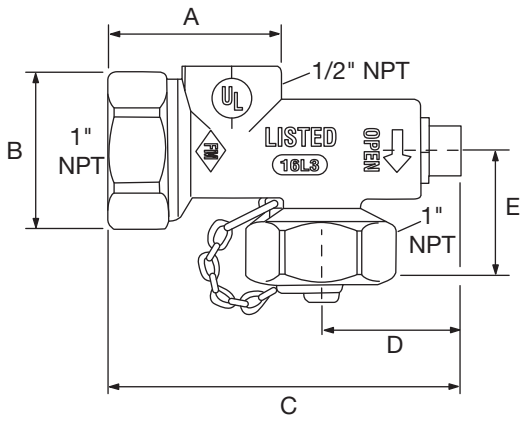


Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model A59

Branch Line Tester

Approvals	UL Listed & FM Approved
Maximum Working Pressure	20,7 bar (300 psi)
Body	Brass
End Connection	Threaded
Tech Data Sheet	**Contact Tyco for details**



Model A59 Branch Line Tester											
Part No.	Dn		PN [Bar]	Dimensions mm					Weight kg	Approval & Listings	
				A	B	C	D	E		UL	FM
A5900340	25	1" NPT	12	34	56	102	38	33	0,4	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Test Equipment

Model A61

Test and Drain Valve

Approvals	UL Listed & FM Approved
Maximum Working Pressure	20,7 bar (300 psi)
Body	Forged Brass
End Connection	Female x Female Threaded or Groove x Groove
Tech Data Sheet	**Contact Tyco for details**

It combines the function of testing and draining the system.

Model A61 Test and Drain Valve					
Part No.	End Connection	Size	Orifice	Approval & Listings	
				UL	FM
A61Y001	Threaded	1″ NPT	3/8″ - K=2.8	√	√
A61Y003			7/16″ - K=4.2	√	√
A61Y005			1/2″ - K=5.6	√	√
A61Y009			3/4″ - K=14.0	√	√
A61Y015			17/32″ - K=8.0	√	√
A61Y002	Threaded	1-1/4″ NPT	3/8″ - K=2.8	√	√
A61Y004			7/16″ - K=4.2	√	√
A61Y006			1/2″ - K=5.6	√	√
A61Y010			3/4″ - K=14.0	√	√
A61Y012			5/8″ - K=11.0	√	√
A61Y016			17/32″ - K=8.0	√	√
A61Y030	Threaded	2″ NPT	7/16″ - K=4.2	√	√
A61Y032			1/2″ - K=5.6	√	√
A61Y033			17/32″ - K=8.0	√	√
A61Y034			5/8″ - K=11.2	√	√
A61Y035			3/4″ - K=14.0	√	√
A61Y036			15/16″ - K=16.8	√	√
A61Y037			15/64″ - K=22.4	√	√
A61Y038			19/64″ - K=25.2	√	√
A61Y052	Grooved	1-1/4″ Grooved	3/8″ - K=2.8	√	√
A61Y056			1/2″ - K=5.6	√	√
A61Y058			17/32″ - K=8.0	√	√
A61Y060			3/4″ - K=14.0	√	√
A61Y062			5/8″ - K=11.0	√	√

Model A61 Test and Drain Valve					
Part No.	End Connection	Size	Orifice	Approval & Listings	
				UL	FM
A61Y080	Grooved	2″ Grooved	7/16″ - K=4.2	√	√
A61Y082			1/2″ - K=5.6	√	√
A61Y083			17/32″ - K=8.0	√	√
A61Y085			3/4″ - K=14.0	√	√
A61Y086			15/16″ - K=16.8	√	√
A61Y087			15/64″ - K=22.4	√	√
A61Y088			19/64″ - K=25.2	√	√
A61Y101	Threaded	1″ BSP	3/8″ - K=2.8	√	√
A61Y103			7/16″ - K=4.2	√	√
A61Y105			1/2″ - K=5.6	√	√
A61Y109			3/4″ - K=14.0	√	√
A61Y115			17/32″ - K=8.0	√	√
A61Y102	Threaded	1-1/4″ BSP	3/8″″ - K=2.8	√	√
A61Y104			7/16″ - K=4.2	√	√
A61Y106			1/2″ - K=5.6	√	√
A61Y110			3/4″ - K=14.0	√	√
A61Y112			5/8″ - K=11.0	√	√
A61Y116			17/32″ - K=8.0	√	√
A61Y130	Threaded	2″ BSP	7/16″ - K=4.2	√	√
A61Y132			1/2″ - K=5.6	√	√
A61Y133			17/32″ - K=8.0	√	√
A61Y134			5/8″ - K=11.2	√	√
A61Y135			3/4″ - K=14.0	√	√
A61Y136			15/16″ - K=16.8	√	√
A61Y137			15/64″ - K=22.4	√	√
A61Y138			19/64″ - K=25.2	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

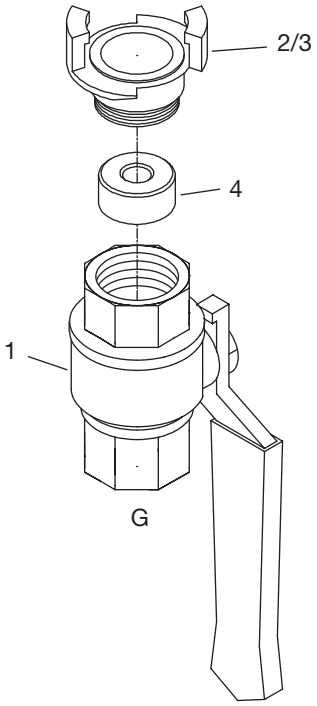
Test Kit - Sprinklers

Test Kit for Sprinklers

Maximum Working Pressure	20,7 bar (300 psi)
End Connection	Threaded - GK coupling
Tech Data Sheet	**Contact Tyco for details**

Test Kit Sprinklers			
Part No.		G	K-Factor
Without Blindcap	With Blinddcap		
TK-K57	TK-K57-EC	1" BSP	57
TK-K80	TK-K80-EC	1" BSP	80
TK-K115	TK-K115-EC	1" BSP	115
TK-K160	TK-K160-EC	1" BSP	160
TK-K200	TK-K200-EC	1" BSP	200
TK-K245	TK-K245-EC	1" BSP	245
TK-K363	TK-K363-EC	1-½" BSP	363

Parts List	
Nr.	Descriptoin
1	Ball Valve Brass, Full Bore Model 1610 BSP Threaded Ends Size 1" PN30 kv=43
2	Coupling GEKA 1" Male Brass
3	Blind Cap for Coupling GEKA 1" Male Brass
4	Orifice Ring for Test Kit K-57, Brass OD = 30 mm ID = 9,5 mm
	Orifice Ring for Test Kit K-80, Brass OD = 30 mm ID = 11,2 mm
	Orifice Ring for Test Kit K-115, Brass OD = 30 mm ID = 13,4 mm
	Orifice Ring for Test Kit K-160, Brass OD = 30 mm ID = 15,9 mm
	Orifice Ring for Test Kit K-200, Brass OD = 30 mm ID = 17,8 mm
	Orifice Ring for Test Kit K-245, Brass OD = 30 mm ID = 19,8 mm
	Orifice Ring for Test Kit K-363, Brass OD = 43 mm ID = 25 mm



General Purpose Valves - Test Equipment

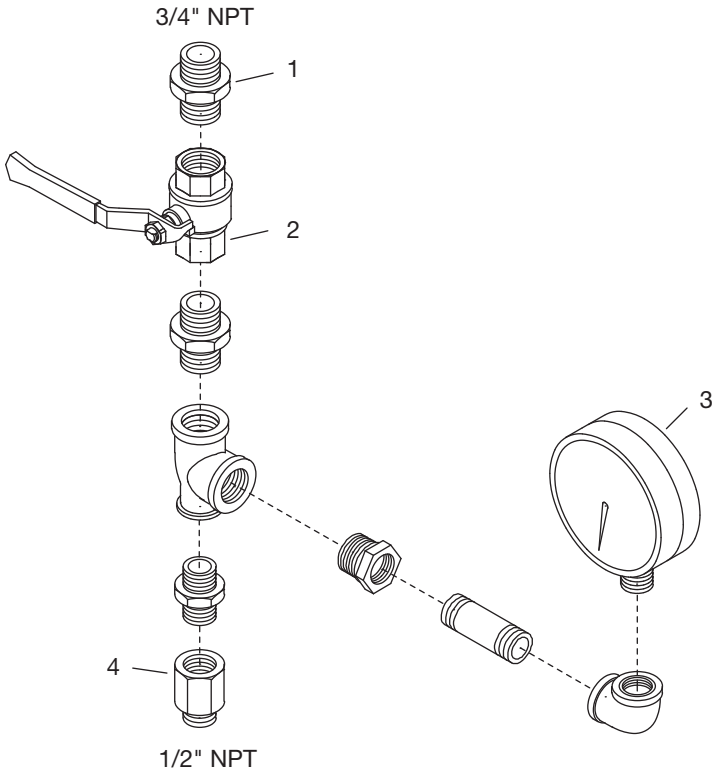
Test Kit - Flow Switches

Test Kit for Flow Switches

Approvals	VdS
Maximum Working Pressure	20,7 bar (300 psi)
End Connection	½" and ¾" NPT
Tech Data Sheet	**Contact Tyco for details**

Test Kit		
Part No.	K	VDS
PESM027AGR	30	√
PESM027CGR	57	√
PESM027DGR	80	√
PESM027EGR	115	√

Parts List	
Item	Description
1	Close Nipple, Fig. 280 Galvanized 3/4"
2	Ball Valve Brass, Full Bore Model 1610 BSP Threaded Ends Size 3/4" PN30 kv=29,5
3	Pressure Gauge Type 111.10.100 0-16 Bar 1/2" ISO RC Thread conform DIM, Class 1.6 100 mm
4	Nipple 1/2" M/F Orifice 7.1 mm Brass [PESM027AGR]
	Nipple 1/2" M/F Orifice 9.5 mm Brass [PESM027CGR]
	Nipple 1/2" M/F Orifice 11.2 mm Brass [PESM027DGR]
	Nipple 1/2" M/F Orifice 13.4 mm Brass [PESM027EGR]

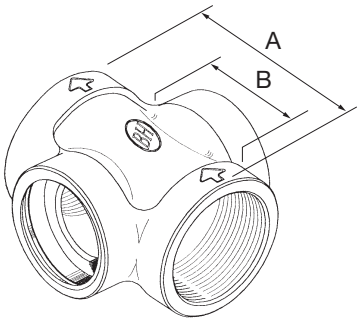


Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model BH-19

Sight Flow Connections

Maximum Working Pressure	12,1 bar (175 psi)
End Connection	1" and 2" NPT or ISO
Tech Data Sheet	**Contact Tyco for details**



Model BH-19 - Sight Flow Connection						
Part No.	DN		PN [Bar]	Dimensions mm		Weight kg
				A	B	
BH0025	25	1" ISO	12,1	82	51	0,3
BH0025N	25	1" NPT	12,1	82	51	0,3
BH0050	50	2" ISO	12,1	85	51	0,5
BH0050N	50	2" NPT	12,1	85	51	0,5

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Pressure Relief Valves

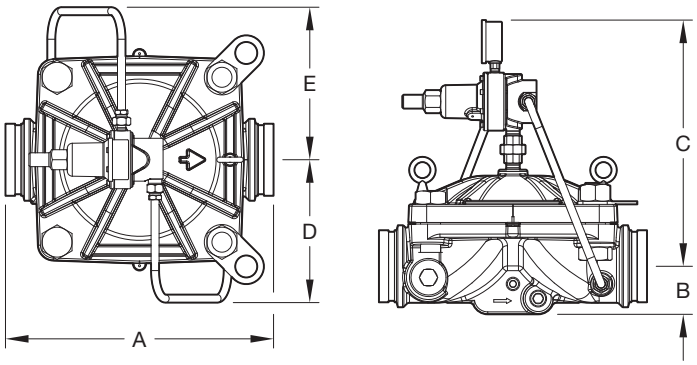
RV-1A

Pressure Relief Valve Pilot-Operated

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL Listed & FM Approved
Maximum System Pressure	20,6 bar (300 psi)
Field Relief "Set Pressure" Range	2,1 to 17,2 bar (30 to 250 psi)
Temperature Range	10°C to 80°C (50°F to 175°F)
End Connection	Groove x Groove or Flange x Flange
Flange Drilling	ANSI & ISO
Tech Data Sheet	**TFP1586**

Automatically relieves excess pressure in a fire protection system to maintain a relatively constant system pressure as flow demands change ■ Uses the DV-5A valve body, incorporating the simple diaphragm design ■ One pilot valve provides for any outlet "set pressure" thanks to sub-assembly ■ No need to bleed trapped air from the diaphragm chamber ■ Simple trim configuration ■ Factory assembled and fully trimmed ■ In-line service

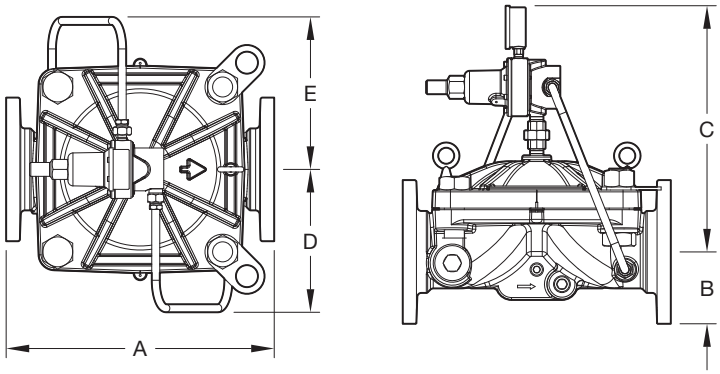
RV-1A - Grooved Ends



Model RV-1A - Groove x Groove											
Part No.	Size		O.D. Pipe Size mm	Dimension mm					Weight kg	Approval & Listings	
	DN	In		A	B	C	D	E		UL	FM
550013020	50	2"	60,3	260	71,1	283,7	150,6	165,9	15,4	√	√
550013030	80	3"	88,9	349	74,9	326,1	204,5	204,5	32,2	√	√
550013040	100	4"	114,3	425	76,2	358,4	226,8	242,1	48,1	√	√
550013060	150	6"	168,3	569	114,8	393,7	315,7	280,2	82,6	√	√
550013080	200	8"	219,1	697	134,4	462,3	366,5	381,8	152,5	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

RV-1A - Flange Ends



Model RV-1A - Flange x Flange											
Part No.		Size		Dimension mm					Weight kg	Approval & Listings	
ANSI	ISO	DN	In	A	B	C	D	E		UL	FM
550023030	550043030	80	3"	349	101,6	326,1	204,5	204,5	37,6	√	√
550023040	550043040	100	4"	425	112,3	358,4	226,8	242,1	57,6	√	√
550023060	550043060	150	6"	569	137,4	393,7	315,7	280,2	94,8	√	√
550023080	550043080	200	8"	697	171,7	462,3	366,5	381,8	169,8	√	√

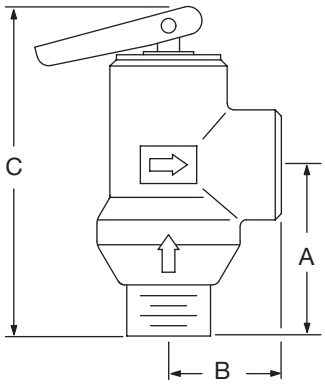
Specify Flange Drilling;
ANSI B16-1 (Class 125) • ISO 7005-2 (PN16)

General Purpose Valves - Pressure Relief Valves

Model 7000

Threaded Pressure Relief Valve

Approvals	UL Listed & FM Approved
Sizes	½" NPT
Pressure	12,1 bar (175 psi)
Body	Bronze
End Connection	NPT Thread
Tech Data Sheet	**Contact Tyco for details**



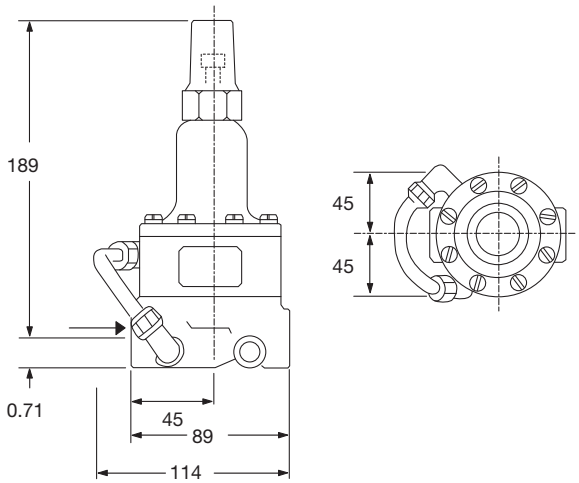
Model 7000										
Part No.	DN		PN [Bar]	Pset [Bar]	Dimensions mm			Weight kg	Approval & Listings	
					A	B	C		UL	FM
70000021	15	½" NPT	12,1	12,1	44	25	82,8	0,25	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model 55L

Threaded Pressure Relief Valve

Approvals	UL Listed & FM Approved
Sizes	DN15 - DN20 (½" - ¾")
Pressure	27,6 bar (400 psi)
Body	Bronze, SS-303
End Connection	NPT Thread
Tech Data Sheet	**Contact Tyco for details**



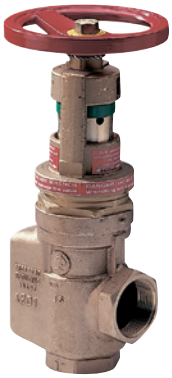
Model 55L											
Part No.	DN		PN [Bar]	ΔP [Bar]	Material	CV	F L/Min@12 Bar	Weight kg	Approval & Listings		
									APSAD	UL	FM
55L00210	15	½" NPT	27,6	1,4-14,0	Bronze	6	300	2,5	-	√	√
55FKX210	15	½" NPT	27,6	1,4-14,0	SS-303	6	300	2,5	√	-	-
55F00270	20	¾" NPT	27,6	1,4-14,0	Bronze	8,5	425	2,5	-	-	-
55L00270	20	¾" NPT	27,6	1,4-14,0	Bronze	8,5	425	2,5	-	√	√
55FKX270	20	¾" NPT	27,6	1,4-14,0	SS-303	8,5	425	2,5	√	-	-

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Pressure Reducing Valves

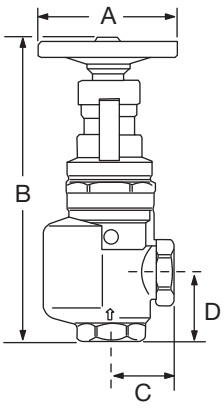
Model A201 & A203

Threaded Pressure Relief Valve

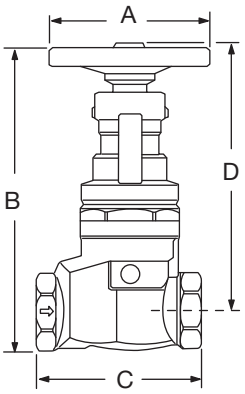


Approvals	UL Listed
Sizes	2-½" NPT
Maximum Pressure	27,6 bar (400 psi)
Static Outlet Pressure Adjustable	4 - 12 bar (60 - 175psi)
Body	Bronze
Tech Data Sheet	**Contact Tyco for details**

A201 - Angle



A203 - Globe



Model A201 Angle & A203 Globe Type with Internal Check Valve										
Part No.	Model	Inlet Conn. Female	Outlet Conn. Female	Orientation	Dimensions mm				Weight kg	Approval & Listings
					A	B	C	D		UL
A20100760	A201	2-½" NPT	2-½" NPT	Angle	200	453	87	95	14	√
A20300760	A203	2-½"NPT	2-½" NPT	Globe.	200	405	203	373	14	√

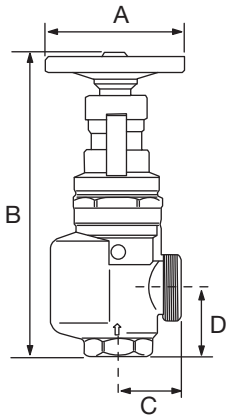
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model A202 & A204

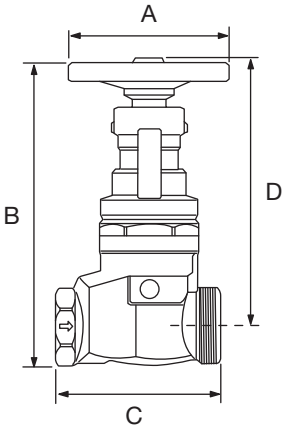
Threaded Pressure Relief Valve

Approvals	UL Listed
Sizes	2-1/2" NPT
Maximum Pressure	27,6 bar (400 psi)
Static Outlet Pressure Adjustable	4 - 12 bar (60 - 175psi)
Body	Bronze
Tech Data Sheet	**Contact Tyco for details**

A202 - Angle



A204 - Globe



Model A202 Angle & A204 Globe Type with Internal Check Valve										
Part No.	Model	Inlet Conn. Female	Outlet Conn. Female	Orientation	Dimensions mm				Weight kg	Approval & Listings
					A	B	C	D		UL
A20200760	A202	2-1/2" NPT	2-1/2" NPT	Angle	200	453	87	95	14	√
A20400760	A204	2-1/2" NPT	2-1/2" NPT	Globe.	200	405	203	373	14	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

General Purpose Valves - Pressure Reducing Valves

MONOSTAB A

Flanged Pressure Relief Valve

Sizes	DN40 - DN200 (1-½" - 8")
Adjustable A Downstream Pressure	1.5 - 6 bar (22 - 87 psi)
Adjustable B Downstream Pressure	5 - 12 bar (75 - 175 psi)
End Connection	Flange ISO PN10 /PN16
Tech Data Sheet	**Contact Tyco for details**

Model MONOSTAB A Direct Action										
Part No		Dn		Flanges	Adjustment Downstream Pressure A Bar	Adjustment Downstream Pressure B Bar	Dimensions mm			Weight kg
Mod A	Mod. B						A	B	C	
A00608	B00608	40 / 50	1-½" / 2"	ISO PN10/16	1,5 - 6	5 - 12	230	86	430	18
A00768	B00768	65	2-½"	ISO PN10/16	1,5 - 6	5 - 12	290	100	420	22
A00898	B00898	80	3"	ISO PN10/16	1,5 - 6	5 - 12	310	112	450	25
A01148	B01148	100	4"	ISO PN10/16	1,5 - 6	5 - 12	350	112	450	31
A01398	B01398	125	5"	ISO PN10/16	1,5 - 6	5 - 12	400	145	550	60
A01688	B01688	150	6"	ISO PN10/16	1,5 - 6	5 - 12	480	145	550	66
A02198	B02198	200	8"	ISO PN10	1,5 - 6	5 - 12	600	185	940	120

Parts List					
Nr.	Description	Material	Nr.	Description	Material
1	Body	FGS	13	Membran	Chloroprène reinforced
2	Stem	SS inox	14	Clapper	pur
3	Seat	Cupro aluminium CuAi9Ni3Fe2	15	Guide	PEHD
4	Cover	FGS	16	O-ring lower cylinder	EPDM
5	lower piston	Ductile iron	17	locking nut	SS inox A2
6	Clapper support	Ductile iron	18	Nut	SS inox A2
7	Clapper nut	Ductile iron	19	Cover nut	SS inox A2
8	Disc	Ductile iron	20	Setting screw	SS inox X20Cr13
9	Support plate	Ductile iron	21	Setting wrench	Galvanized steel
10	Body cylinder	Ertalon	22*	Manometer	SS inox
11	Guide stop	Cupro aluminium CuAi9Ni3Fe2	23	Gauge valve	Nickel plated brass
12	Setting spring	Coated steel			

*Manometer optional

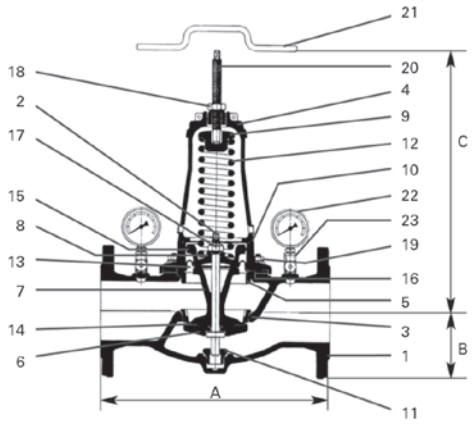


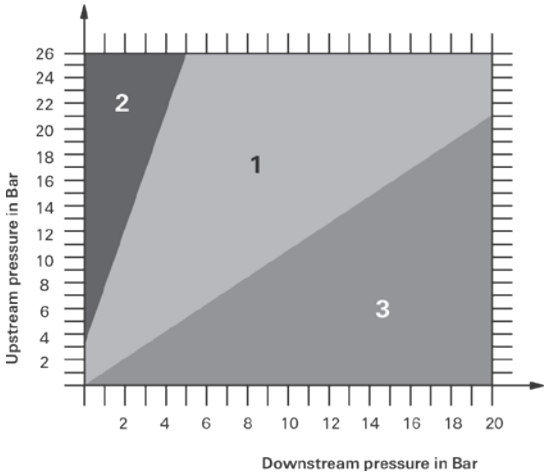
Chart:

This chart can be used to check when the Monostab pressure Valve can be used

Zone 1: Normal conditions of service

Zone 2: Cavitation area

Zone 3: Not possible



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

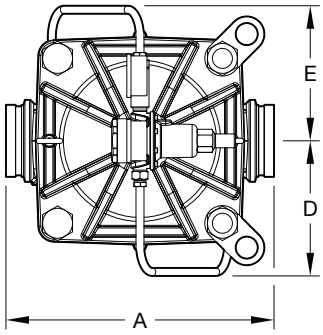
PRV-1A

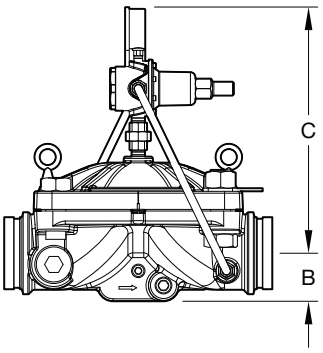
Pressure Reducing Valve Pilot Operated

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL, C-UL Listed & FM Approved
Maximum Inlet Pressure	17,2 bar (300 psi)
Factory Outlet "Set Pressure"	8,6 bar (125 psi)
Field Outlet "Set Pressure" Range	6,2 to 12 bar (90 to 175 psi)* * = Sizes DN50, DN80, DN150 and DN200 (2", 3", 6" and 8") are rated to a set pressure of 5,5 to 12 bar (80 to 175 psi)
End Connection	Groove x Groove, Flange x Flange
Tech Data Sheet	**TFP1581**

Reduces a higher inlet pressure to a lower outlet delivery pressure in water-filled pipes ■ One pilot valve provides for any outlet "set pressure" thanks to sub-assembly ■ Uses the DV-5A valve body, incorporating the simple diaphragm design ■ Factory assembled and fully trimmed ■ In-line service

PRV-1A - Groove Ends





Model PRV-1A - Groove x Groove											
Part No.	Size		O.D. Pipe Size mm	Dimension mm					Weight kg	Approval & Listings	
	DN	In		A	B	C	D	E		UL	FM
550012020	50	2"	60,3	260	71,1	281,7	159,5	227,1	15,9	√	√
550012030	80	3"	88,9	349	74,9	324,4	197,6	227,1	32,2	√	√
550012040	100	4"	114,3	425	76,2	358,6	214,4	214,4	48,1	√	√
550012060	150	6"	168,3	569	114,8	391,4	299,2	277,9	85,3	√	√
550012080	200	8"	219,1	697	134,4	460,0	375,4	366,8	153,3	√	√

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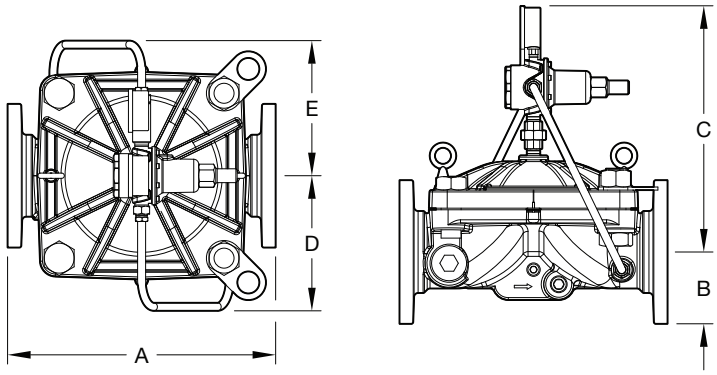
General Purpose Valves - Pressure Reducing Valves

PRV-1 - Angle Style



Model RV-1A - Flange x Flange											
Part No.		Size		Dimension mm					Weight kg	Approval & Listings	
ANSI	ISO	DN	In	A	B	C	D	E		UL	FM
550022030	550042030	80	3"	349	101,6	324,4	197,6	227,1	37,6	√	√
550022040	550042040	100	4"	425	112,3	358,6	214,4	214,4	57,6	√	√
550022060	550042060	150	6"	569	137,4	391,4	299,2	277,9	97,5	√	√
550022080	550042080	200	8"	697	171,7	460,0	375,4	366,8	70,6	√	√

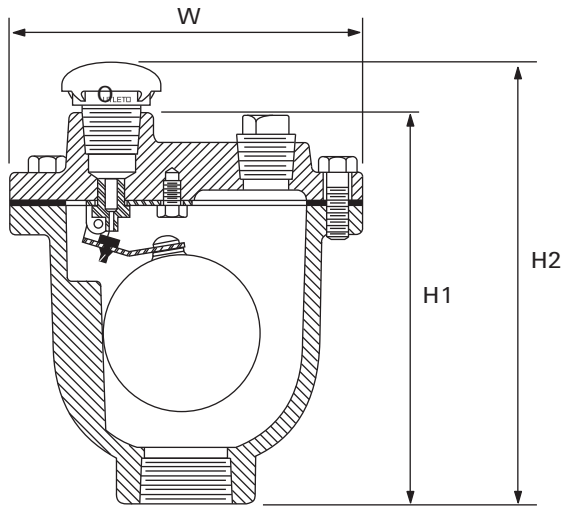
Specify Flange Drilling;
ANSI B16-1 (Class 125) • ISO 7005-2 (PN16)

Model 15A

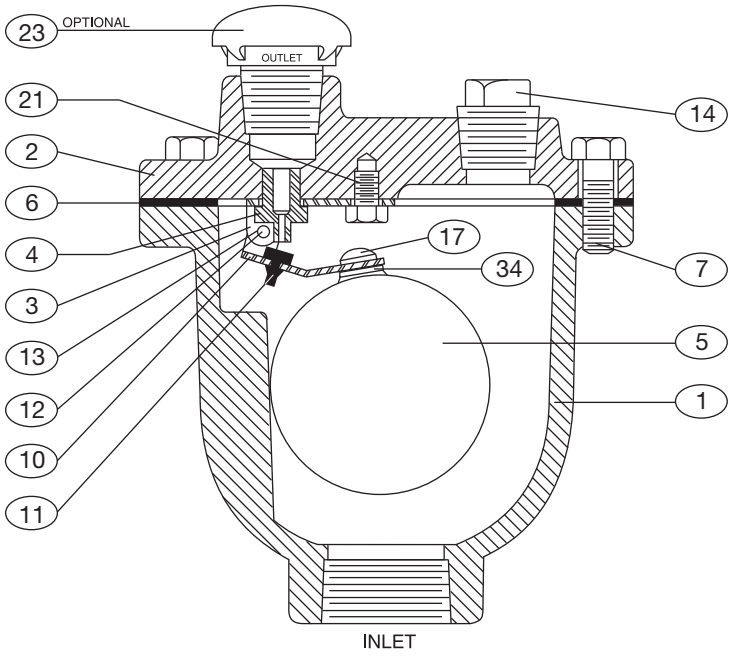
Air Release Valves

Approvals	UL Listed & FM Approved
Sizes	DN15 - DN25 (½" - 1")
Maximum Pressure	12 bar (175 psi)
Body	Cast Iron
Tech Data Sheet	**Contact Tyco for details**

MODEL 15A											
Part No.	Inlet DN		Outlet DN		PN [Bar]	Dimensions mm			Weight kg	Approval & Listings	
						H1	H2	W		UL	FM
1500210	15	½" NPT	15	½" NPT	12	133	194	121	2,7	√	√
1500340	25	1" NPT	15	½" NPT	12	133	194	121	2,7	√	√



Parts list	
Nr.	Description
1	Body
2	Cover
3	Lever Frame
4	Seat
5	Float
6	Gasket
7	Cover Bolt
10	Float Arm
11	Orifice Button
12	Pivot Pin
13	Pin Retainer (not shown)
14	Pipe Plug
17	Float Retainer
21	Locator
23	Screened Hood
34	Lock Washer



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

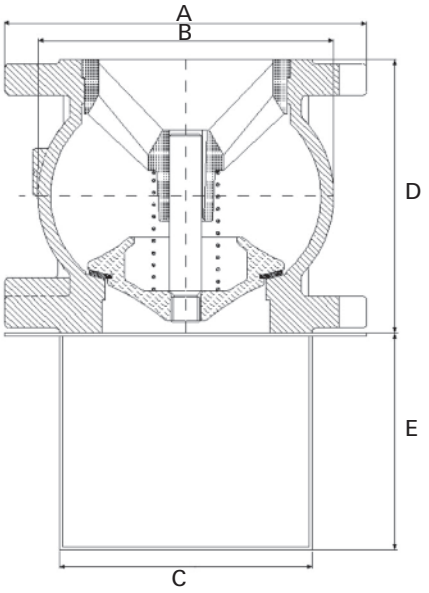
Other Pump Equipment

Model 24 & Model 302

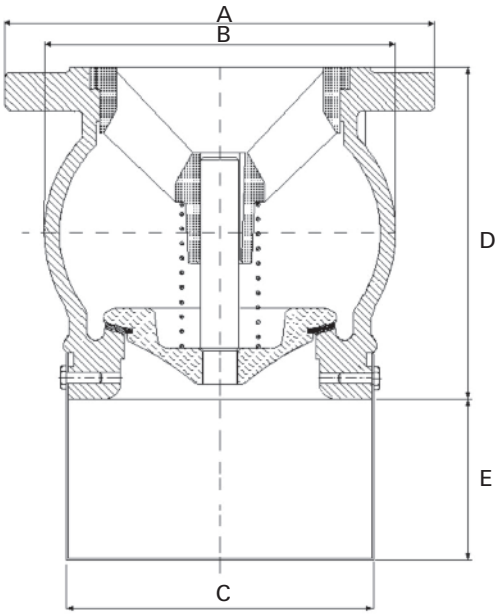
Foot Valves

Sizes	DN100 - DN300 (4" - 12")
Maximum Pressure	10 - 16 bar (145 - 232 psi)
Body	Cast Iron
Spring	Stainless Steel
Strainer	Galvanised Steel
Seal	NBR
Tech Data Sheet	**Contact Tyco for details**

Model 24 - DN100-DN250



Model 302 - DN300



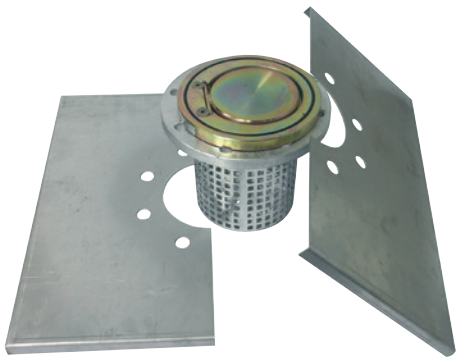
Model 24 Flanged with Basket											
Part No.	DN		PN [Bar]	Drilling	Dimensions mm					Kv m3/h	Weight kg
					A	B	C	D	E		
24100B1148	100	4"	16	PN10/16	220	185	164	175	142	360	16
24100B1688	150	6"	16	PN10/16	285	248	212	234	200	810	32,7
24100B2198	200	8"	16	PN16	340	345	255	300	300	1080	52
24100B2738	250	10"	16	PN16	405	415	330	370	380	1770	86

Model 302 Flanged with Basket											
Part No.	DN		PN [Bar]	Drilling	Dimensions mm					Kv m3/h	Weight kg
					A	B	C	D	E		
30203247	300	12"	10	PN10	486	482	426	410	242	2210	133,0

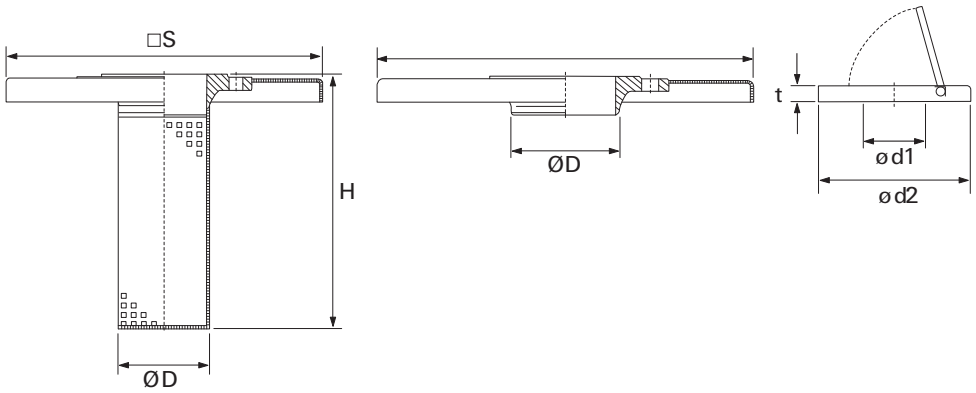
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

FV

Anti-Vortes Plates



Approvals	VdS, VAS, CEA
Sizes	DN100 - DN300 (4" - 12")
Body Check Valve	Galvanised Carbon Steel
Body Basket	Galvanised Steel
Tech Data Sheet	**Contact Tyco for details**



Model FV - PN10												
Part No.		DN		Dimensions mm						Approval & Listings		
With Basket	Without Basket			Ø D	H	S	Ø d1	Ø d2	t	VDS	VAS	CEA
FV100MAMSG	FV100MAOSG	100	4"	114,3	150	400	70	164	18			
FV150MAMSG	FV150MAOSG	150	6"	168,3	205	600	112	220	20			
FV200MAMSG	FV200MAOSG	200	8"	219,1	255	800	154	275	22			
FV250MAMSG	FV250MAOSG	250	10"	273,0	310	1000	200	330	26			
FV300MAMSG	FV300MAOSG	300	12"	323,9	340	1200	240	380	32			
FV350MAMSG	FV350MAOSG	350	14"	355,6	380	1200	270	440	38	√	√	√
-	FV400MAOSG	400	16"	406,4	-	1600	310	490	44	√	√	√

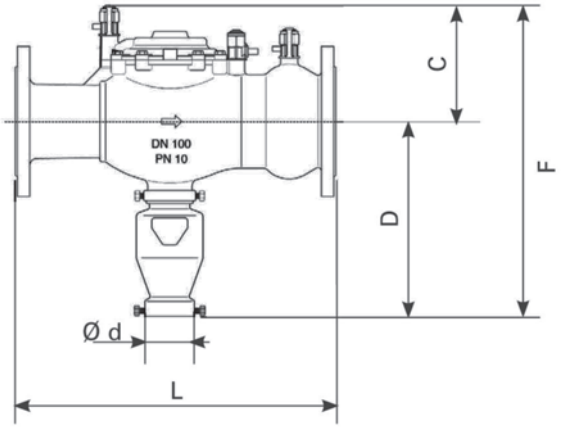
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Other Pump Equipment

Model BAC

Backflow Preventers

Approvals	NF, UNI, ANSEAU, BOVERKET
Sizes	DN65 - DN200 (2-½" - 8")
Body	Brass
End Connections	Flange - ISO PN10
Tech Data Sheet	**Contact Tyco for details**



Model BAC - Backflow Preventer PN10												
Part No.	DN		Dimensions mm					Weight kg	Approval & Listings			
			L	C	D	øD	F		NF	UNI	Anseau	BOVERKET
BAC0767	65	2-½"	305	132,5	252,5	50	385	17	√	√	√	√
BAC0897	80	3"	470	170	313,5	80	483,5	26,5	√	√	√	√
BAC1147	100	4"	470	170	313,5	80	483,5	28	√	√	√	√
BAC1687	150	6"	600	310	229	90	539	103	√	√	√	√
BAC2197	200	8"	780	350	272	90	622	111	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

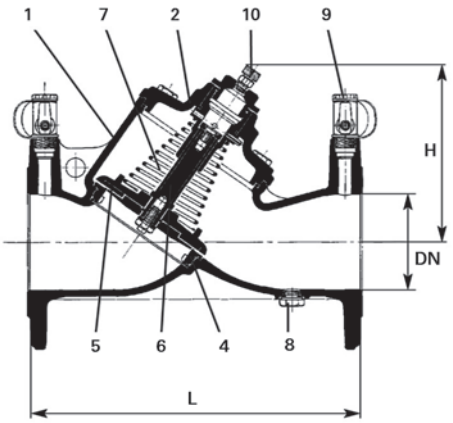
Model EA

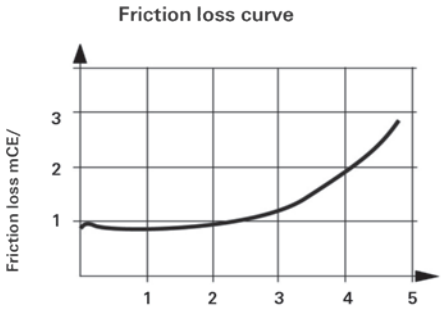
Backflow Preventers

Sizes	DN40 - DN250 (1-½" - 10")
Body	Ductile
End Connections	Flange - ISO PN10/PN16
Tech Data Sheet	**Contact Tyco for details**

Model EA						
Part No.	DN		Flanges	Dimensions mm		Weight kg
				L	H	
EA00608	40 / 50	1-½" / 2"	PN10/16	230	135	11
EA768	65	2-½"	PN10/16	290	150	14
EA898	80	3"	PN10/16	310	160	18
EA1148	100	4"	PN10/16	350	185	23
EA1398	125	5"	PN10/16	400	225	34
EA1688	150	6"	PN10/16	480	265	50
EA2197	200	8"	PN10	600	330	75
EA2737	250	10"	PN10	On request	On request	135

EA	
Nr.	Description
1	Body
2	Cover
3	Clapper
4	Clapper Seat
5	Clapper gasket
6	Axe
7	return spring
8	Drain cap
9	Gauge valve
10	Drain valve





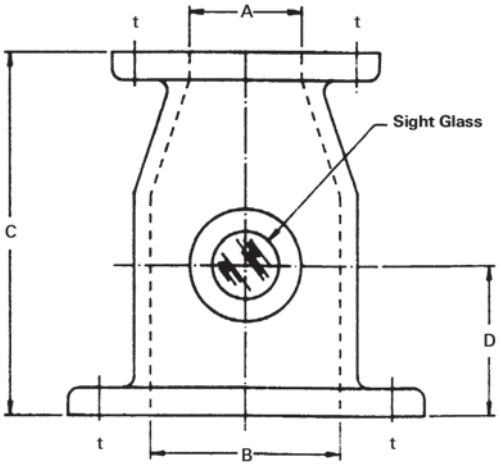
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Other Pump Equipment

Model 109

Waste Cones

Sizes	DN80 x DN125 - DN200 x DN300 (3" x 5" - 8" x 12")
Body	Cast Iron
End Connections	Flange - ANSI 125
Tech Data Sheet	**Contact Tyco for details**



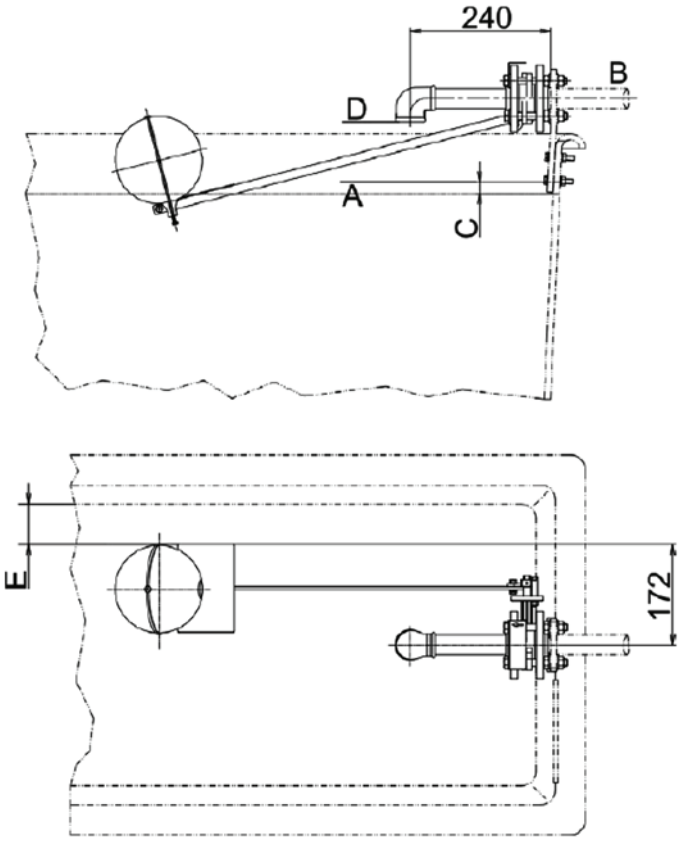
Model 109							
Part No	DN A x B		Pn [Bar]	Flanges	Dimensions mm		Weight kg
					C	D	
10930055	80 x 125	3" x 5"	12	ANSI 125	254	102	21
10940065	100 x 150	4" x 6"	12	ANSI 125	254	102	21
10940085	100 x 200	4" x 8"	12	ANSI 125	254	102	21
10960105	150 x 250	6" x 10"	12	ANSI 125	330	127	40
10980125	200 x 300	8" x 12"	12	ANSI 125	330	127	68

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model SV1

Float Valve

Sizes	DN25 (1")
Maximum Pressure	10 bar (145 psi)
Body Float	Polyethylene
Material Lever	Stainless Steel
Tech Data Sheet	**Contact Tyco for details**



SV1	
Nr.	Description
A	Overflow
B	Supply Pipe
C	Maximum filling level at least 20mm below lower edge overflow
D	Outlet
E	Minimum distance between float and tank wall at least 50mm

Model SV642 - Float Valves					
Part No	DN		PN [Bar]	KV m3/h	Weight kg
913796	25	1" BSP	10	18	4,68

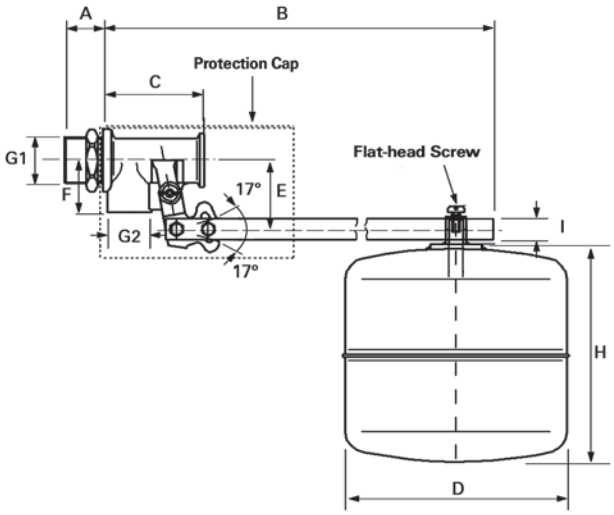
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Other Pump Equipment

Model SV642

Float Valve

Sizes	DN50 (2")
Maximum Pressure	10 bar (145 psi)
Body Float	Stainless Steel
Material Lever	Galvanised Steel
Tech Data Sheet	**Contact Tyco for details**



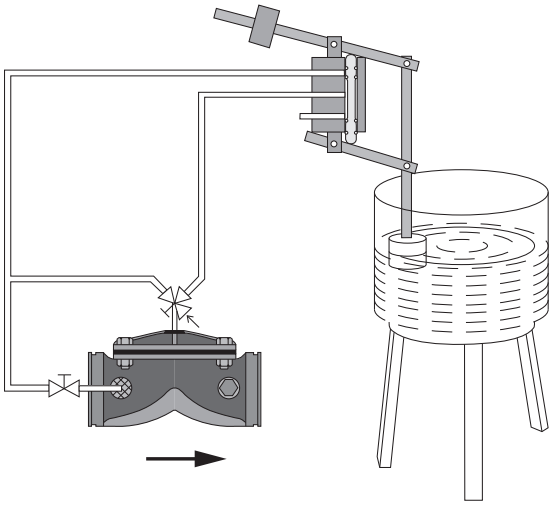
Model SV642 - Float Valves															
Part No	DN		PN [Bar]	KV m3/h	Dimensions mm										Weight kg
					A	B	C	øD	E	F	G1	G2	H	I	
777343	50	2" BSP	10	17,4	42	900	116	245	75	53	2"	1-1/2"	245	25	6

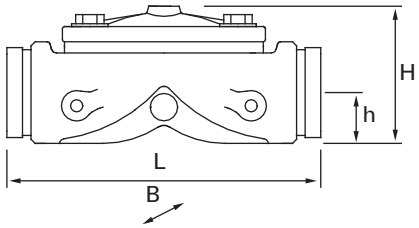
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model RAF13

Float Valves

Sizes	DN40 – DN300 (1-½" – 12")
Maximum Inlet Pressure	16 bar (232 psi)
Body	Ductile Iron
Diaphragm	Natural Rubber / Nylon Fabric
Float Arm Assembly	Zinc Plated Steel
Tech Data Sheet	**Contact Tyco for details**



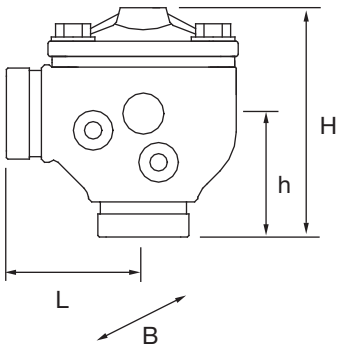


Model RAF13												
Part No.	Nominal Size		Pipe OD mm	Min. Inlet Pressure (Bar)	Max. Inlet Pressure (Bar)	Kv. factor (Open Valve) RAF	Control Chamber Volume	Dimensions mm				Approx. Weight Kg
	mm	In.						L	H	B	h	
RAF-G048	40	1-½"	48,3	0,8	16	40	0,06	159	80	96	29	1,8
RAF-G060	50	2"	60,3	0,7	16	70	0,08	190	100	125	38	3,9
RAF-G076	65	2-½"	76,1	0,7	16	100	0,16	216	110	125	46	6,7
RAF-G089D	80D	3"D	88,9	0,7	16	130	0,16	244	127	138	50	5,4
RAF-G089	80	3"	88,9	0,6	16	170	0,3	290	138	200	50	10,4
RAF-G114D	100D	4"D	114,3	0,6	16	170	0,3	244	283	222	50	11,1
RAF-G114	100	4"	114,3	0,4	16	290	0,7	346	220	230	60	16,5
RAF-G139	125	5"	139,7	0,4	16	290	0,7	305	167	230	60	16
RAF-G168D	150D	6"D	168,3	0,4	16	300	0,7	325	285	285	143	35,8
RAF-G168	150	6"	168,3	0,4	16	490	1,5	406	240	300	85	30,4
RAF-G219	200	8"	219,1	0,4	16	790	3,5	470	332	354	110	45,6
RAF-G273	250	10"	273,0	0,3	16	1400	7,6	635	374	464	137	75,6
RAF-G324	300	12"	323,9	0,3	16	1800	7,6	749	402	464	162	90

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Other Pump Equipment

Model RAF13 - Float Valves



Model RAF13A - Float Valves												
Part No.	Nominal Size		Pipe OD mm	Min. Inlet Pressure (Bar)	Max. Inlet Pressure (Bar)	Kv. factor (Open Valve) RAF	Control Chamber Volume	Dimensions mm				Approx. Weight Kg
	mm	In.						L	H	B	h	
RAF-A060	50	2"	60,3	0,7	16	62	0,08	90	150	125	81	4,2
RAF-A076	65	2-1/2"	76,1	0,7	16	90	0,16	117	160	125	83	7,0
RAF-A089D	80D	3"D	88,9	0,7	16	100	0,16	130	170	140	86	6,2
RAF-A089	80	3"	88,9	0,6	16	155	0,3	148	205	200	107	12,0
RAF-A114D	100D	4"D	114,3	0,6	16	155	0,3	155	225	220	110	21,0
RAF-A114	100	4"	114,3	0,4	16	200	0,7	150	227	230	118	15,9
RAF-A168	150	6"	168,3	0,4	16	470	1,5	218	315	300	148	48,7

Trim Only		
Part No.	Nominal Size	
	mm	In.
TRIM-RAF13	40-125	1-1/2" - 5"
TR-RAF13X	150-300	6" - 12"

Recommended Flow			
DN		Flow Rate m3/h	
mm	In.	Max.	Intermittent
40	1-1/2"	25	35
50	2"	45	60
65	2-1/2"	70	80
80D	3"D	70	100
80	3"	90	120
100D	4"D	90	120
100	4"	150	180
125	5"	150	200
150D	6"D	150	200
150	6"	320	400
200	8"	550	750
250	10"	950	1150
300	12"	1200	1700

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

K3-10

Altitude Valves

Sizes	DN40 - DN250 (1-½" - 10")
End Connections	Flange - ISO PN10 / PN16
Tech Data Sheet	**Contact Tyco for details**

Model K3-10 - Altitude Valves									
Part No.	DN		Flanges	Height Filling Setting m	Height Setting on Request m	Dimensions mm			Weight kg
						A	B	C	
K30608	40 / 50	1-½" / 2"	ISO PN10/16	1,5 - 8	6 - 40	230	223	85	29
K30768	65	2-½"	ISO PN10/16	1,5 - 8	6 - 40	290	242	95	38
K30898	80	3"	ISO PN10/16	1,5 - 8	6 - 40	310	262	102	47
K31148	100	4"	ISO PN10/16	1,5 - 8	6 - 40	350	287	120	49
K31398	125	5"	ISO PN10/16	1,5 - 8	6 - 40	400	383	137	60
K31688	150	6"	ISO PN10/16	1,5 - 8	6 - 40	480	430	152	80
K32198	200	8"	ISO PN10 / PN16	1,5 - 8	6 - 40	600	554	182	140
K32738	250	10"	ISO PN10 / PN16	1,5 - 8	6 - 40	730	595	212	245

*ISO PN10 or PN16 to be specified on the order

Fig. 1:

Top filling
Befüllung von oben
Alimentation par le dessus

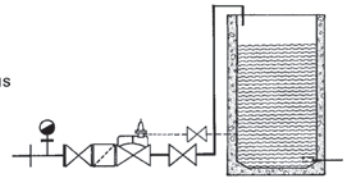


Fig. 2:

Bottom filling
Befüllung von unten
Alimentation par le bas

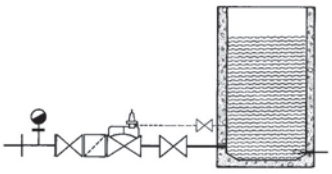


Fig. 3:

Piping filling
Befüllung über Pumpeninstallation
Alimentation - Distribution

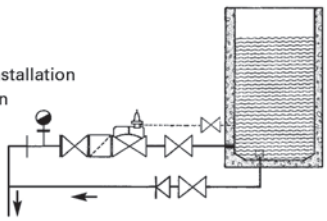
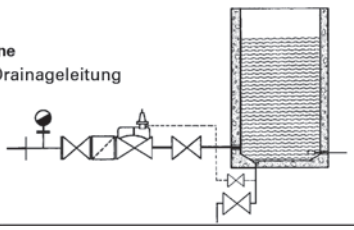


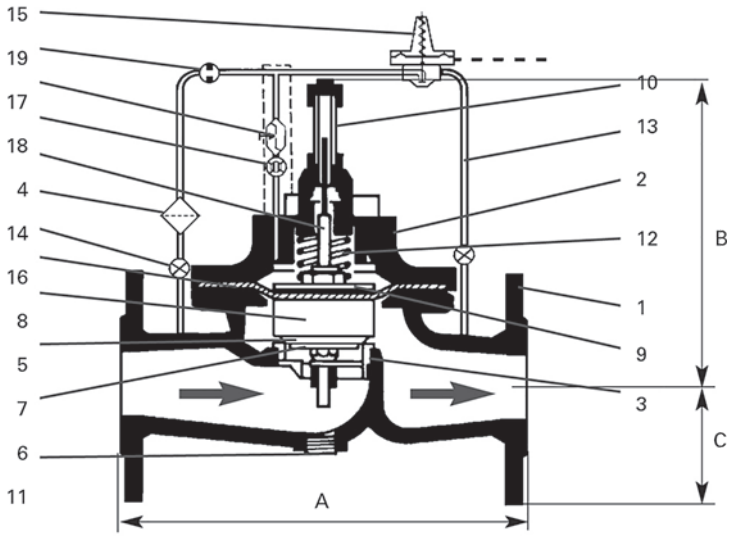
Fig. 4:

Pressure signal on Drain Line
Steuerdruck kommt aus Drainageleitung
Prise de pression sur
une vidange



Other Pump Equipment

K3-10 - Altitude Valves



Parts List					
Nr.	Description	Material	Nr.	Description	Material
1	Body	FGS	11	Cap	Cupro
2	Cover	FGS	12	Spring	SS inox
3	Seat	Bronze CuSn12	13	Pilot Trim	SS inox
4	Axe	SS inox x20Cr13	14	Strainer	Bronze CuSn5Zn5pb5 + SS inox 303
5	Clapper Holder	DN50-DN200= FGl/EN-GJl-250 DN250=FGS	15	Pilot	Bronze-SS inox
6	Clapper Fixing Ring	DN50-DN150=Cupro-aluminium DN200-DN250=FGl/Aluminium Bronze	16	Ball valve	Nickel Brass
7	Clapper	EpDM	17	Speed Controler	CuZn39pb3 + X8CrNiS 18.9 + EPDM
8	Membran	Elastomer	18	Ball Valve	CuZn36pb2As + EPDM
9	Disc	DN50-DN150=FGl DN200-DN250=FGS	19	Diaphragm	SS inox
10	Indicator	Cupro + Glass			

Measuring and Electrical Devices

Allow fire protection systems to be interfaced with alarm systems.

- Improved system monitoring capabilities
- Able to send an electrical or mechanical signal for alarm/notification purposes
- Programmable options for specific system requirements
- Installation options for both new and existing systems

System Testing

SprinklerSense

Self Testing Flow Switches and System Monitoring

Sizes	DN50 thru DN150 (2" thru 6")
Approvals	LPCB Approved and meets BS EN12259-5 standards.
Max Water Pressure	20 bar (290 psi)
Tech Data Sheet	Contact Tyco for details

Intelligent water flow switch designed to enable a sprinkler system's status to be constantly monitored, tested and recorded to far greater depths than traditional methods ■ Uses solid-state sensors with no moving parts and greatly reduces time to test and commission a system ■ Offers precise reporting and full audit trail for management purposes ■ Intelligent Test Module (ITMU) loop connected with a compatible detector system enhances remote testing and monitoring capabilities ■ Enhanced diagnostics help ensure the sprinkler system functionality is continuously monitored for key indicators: flow alarm detection, dry pipe detection, sensor self-check detection, freeze risk detection, leak detection, battery low alarm, and unit communication failure

SprinklerSense - Self Testing Flow Switches and System Monitoring					
Part Number	Size		Description	Weight kg	Approval & Listings
	DN	BSP			LPCB
SPDB9050V	50	2"	Vertical Flowswitch	0.8	√
SPDB9065V	65	2-½"	Vertical Flowswitch	0.8	√
SPDB9080V	80	3"	Vertical Flowswitch	0.8	√
SPDB90100V	100	4"	Vertical Flowswitch	0.8	√
SPDB90150V	150	6"	Vertical Flowswitch	0.8	√
SPDB9050H	50	2"	Horizontal Flowswitch	0.8	√
SPDB9065H	65	2-½"	Horizontal Flowswitch	0.8	√
SPDB9080H	80	3"	Horizontal Flowswitch	0.8	√
SPDB90100H	100	4"	Horizontal Flowswitch	0.8	√
SPDB90150H	150	6"	Horizontal Flowswitch	0.8	√
ITMPCB	-	-	Addressable test unit PCB	0.8	√
FTIM	-	-	Fixed test unit SprinklerSense	0.8	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

VSR-AT

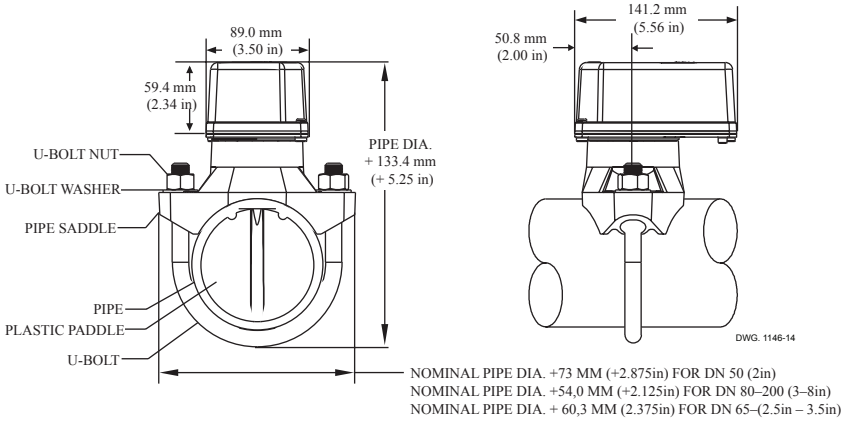
Vane Type Waterflow Alarm Switch With Electronic Retard and Auto Test Feature

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL, C-UL Listed & FM, LPCB, & CE Approved
Tech Data Sheet	Contact Tyco for details

Electronic vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 38 litres per minute (10GPM) ■ Retard delay is an adjustable feature that can be set from 0 to 30 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSR-AT - Electronic Vane Type Waterflow Switch										
Part Number	Size		Service Pressure Bar (psi)	Hole Size	Retard Settings (Sec.)	Weight kg	Approval & Listings			
	DN	BSP					UL	FM	LPCB	CE
20001720	50	2″	31 (450)	33 ± 2 (1.25" ± 0.125")	0 - 30	1.7	√	√	√	√
20001725	65	2-1/2″	31 (450)	33 ± 2 (1.25" ± 0.125")	0 - 30	1.7	√	√	√	√
20001730	80	3″	31 (450)	50,8 ± 2 (2" ± 0.125")	0 - 30	2.2	√	√	√	√
20001740	100	4″	31 (450)	50,8 ± 2 (2" ± 0.125")	0 - 30	2.4	√	√	√	√
20001760	150	6″	31 (450)	50,8 ± 2 (2" ± 0.125")	0 - 30	2.6	√	√	√	√

Features	
Description	Specification
Flow Required for Alarm	38 LPM (10 GPM)
IP Rating	IP 54
Temperature	4.5°C - 49°C (40°F - 120°F)
Maximum Surge	5.5 m/s (18 FPS)
Contact Ratings	2.5 AMP @ 125/250 VAC & 30 VDC



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Flow Switches

VSR-EU

Flow Switch, Vane Type

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL, C-UL Listed & FM, LPCB, VdS, & CE Approved
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 38 litres per minute ■ Retard delay is an adjustable feature that can be set from 0 to 30 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSR-EU Flow Switch, Vane Type															
Part Number	Size		P Bar	Hole Size	Retard Settings (Sec.)	Weight kg	Approval & Listings								
	DN	BSP					UL	FM	LPCB	VdS	Fire Academy of Russia	CE	VNIIPO	T/S/U	PAVUS
20000608	50	2"	31	33 ± 2	0 - 30	1.7	√	√	√	√	√	√	√	√	√
20000768	65	2-½"	31	33 ± 2	0 - 30	1.7	√	√	√	√	√	√	√	√	√
20000898	80	3"	31	50.8 ± 2	0 - 30	2.2	√	√	√	√	√	√	√	√	√
20001148	100	4"	31	50.8 ± 2	0 - 30	2.4	√	√	√	√	√	√	√	√	√
20001418	125	5"	31	50.8 ± 2	0 - 30	2.6	√	√	√		√	√	√	√	√
20001688	150	6"	31	50.8 ± 2	0 - 30	2.6	√	√	√	√	√	√	√	√	√
20002198	200	8"	31	50.8 ± 2	0 - 30	3.2	√	√	√	√	√	√		√	√

Features	
Description	Specification
Flow Sensitivity	15-38 LPM (4-10 GPM) -UL 30-57 LPM (8-15 GPM) -VdS No signal below 1 -LPM (2.6 GPM) - VdS
IP Rating	IP 54
Temperature	1° C - 68 ° C - VdS 4.5° C - 49 ° C - UL
Contacts	2 x SPDT [C] 10 A - 125/250 VAC 2 A - 30 VDC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

VSG

Flow Switch, Low Flow Rate Vane Type

Sizes	DN50 thru DN100 (2" thru 4")
Approvals	UL and ULC Listed
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use in wet pipe water mist systems ■ Actuated with a minimum flow of 11,4 litres per minute ■ Retard delay is an adjustable feature that can be set from 0 to 90 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSG Flow Switch, Vane Type								
Part Number	Size		P Bar	Hole Size mm	Weight kg	Approval & Listings		
	DN	BSP				UL	Fire Academy of Russia	VNIIPO
30000602	50	2″	31	33 ± 2	2	√	√	√
30000762	65	2-½″	31	33 ± 2	2	√	√	√
30000892	80	3″	31	50 ± 2	2.2	√	√	√
300001142	100	4″	31	50 ± 2	2.4	√	√	√

Features	
Description	Specification
Min. Flow	11,4 L/Min.
IP Rating	NEMA 4
Temperature	4,5°C / 49°C
Contacts	1 x DPDT [C] 2 A - 0/30 VDC 0/125 VAC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Flow Switches

VS-SP

Flow Switch, Vane Type

Sizes	1" NPT
Approvals	UL Listed & CE Approved
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems

Model VS-SP Flow Switch, Vane Type					
Part Number	Size	P Bar	Weight kg	Approval & Listings	
				UL	CE
19000480	1" NPT	17	0.92	√	√

Features	
Description	Specification
Min. Flow	38 L/Min.
IP Rating	IP 55
Temperature	4,5°C / 49°C
Contacts	1 x SPDT [C] 15 A - 125/250 VAC 0.5 A - 125 VDC 0.25 A - 250 VDC 2.5 A - 30 VDC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

VSR-S

Flow Switch, Vane Type

Sizes	1" NPT
Approvals	UL Listed, CE Marked, LPCB Approved
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 38 litres per minute ■ Retard delay is an adjustable feature that can be set from 0 to 30 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSR-S Flow Switch, Vane Type								
Part Number	Size	P Bar	Retard Settings (Sec.)	Weight kg	Approval & Listings			
					UL	CE	LPCB	VNIIPO
20000488	1" NPT	17	0 - 20/30	1.32	√	√	√	√

Features	
Description	Specification
Flow Sensitivity	15-38 LPM UL
IP Rating	IP 54
Temperature	4,5°C / 49°C
Contacts	2 x SPDT [C] 10 A - 125/250 VAC 2 A - 30 VDC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Flow Switches

VSR-FE-2

Flow Switch, Vane Type

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL Listed & FM Approved
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 38 litres per minute ■ Retard delay is an adjustable feature that can be set from 0 to 90 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSR-FE-2 Flow Switch, Vane Type							
Part Number	Size		P	Hole	Weight	Approval & Listings	
	DN	BSP	Bar	Size mm	kg	UL	FM
20000603	50	2″	31	33 ± 2	2	√	√
20000763	65	2-½″	31	33 ± 2	2.1	√	√
20000893	80	3″	31	50,8 ± 2	2.6	√	√
20001143	100	4″	31	50,8 ± 2	2.6	√	√
20001683	150	6″	31	50,8 ± 2	3.3	√	√
20002193	200	8″	31	50,8 ± 2	4.3	√	√

Features	
Description	Specification
Min. Flow	38 L/Min.
NEMA Rating	NEMA 4
Temperature	+4,5 / +49°C
Contacts	1 x DPDT [C] 2 A - 0/30 VDC 0/125 VAC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

VSR-FEX

Explosion Proof Flow Switch, Vane Type

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL Listed & FM & CE Approved
Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 38 litres per minute ■ Retard delay is an adjustable feature that can be set from 0 to 90 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

Model VSR-FEX Explosion Proof Flow Switch, Vane Type														
Part Number	Size		P	Hole	Retard Settings (Sec.)					Weight	Approval & Listings			
	DN	BSP	Bar	Size mm	A	B	C	D	E	kg	UL	FM	CE	ATEX
20000609	50	2″	31	33 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20000769	65	2-½″	31	33 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20000899	80	3″	31	50 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20001149	100	4″	31	50,8 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20001419	125	5″	31	50,8 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20001689	150	6″	31	50,8 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√
20002199	200	8″	31	50,8 ± 2	10-25	20-40	35-55	50-70	60-90	3.5	√	√	√	√

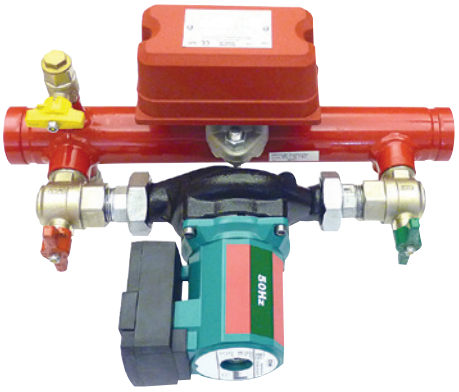
Features	
Description	Specification
Min. Flow	38 L/Min.
IP Rating	NEMA 4 / IP66
Temperature	+4 / +50° C
Contacts	2 x SPDT [C] 15 A - 125/250 VAC 2 A - 30 VDC

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Flow Switches

ZONECHECK

Zonecheck Assemblies & Retrofit Kit, Remote Test Unit



Sizes	DN50 thru DN150
Approvals	FM, VdS, LPCB & CE Approved
Tech Data Sheet	Contact Tyco for details

Zonecheck Assemblies & Retrofit Kit						
Part Number	Size DN	Weight kg	Approval & Listings			
			FM	LPCB	VdS	CE *
ZONECHK50	50	14.3	√	√	√	√
ZONECHK65	65	14.9	√	√	√	√
ZONECHK80	80	16.5	√	√	√	√
ZONECHK100	100	18.7	√	√	√	√
ZONECHK150	150	24.3	√	√	√	√

* CE only on separate parts.

PS10-1 or PS10-2

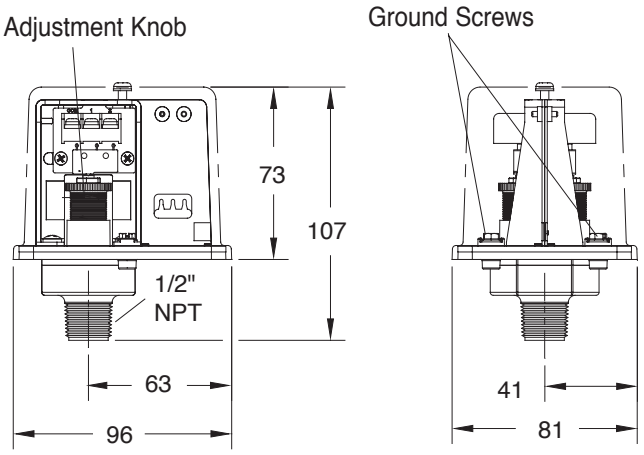
Pressure Switch

Sizes	½" NPT
Approvals	UL Listed & FM, VdS, LPCB & CE Approved
Tech Data Sheet	Contact Tyco for details

Designed to detect a pressure increase or decrease in fire sprinkler systems ■ PS10 switch is appropriate for water flow detection

PS10-1 or PS10-2 Pressure Switch															
Part Number	Model	Size NPT	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings									
						UL	FM	EN Std.	LPCB	VdS	Fire Academy of Russia	CE	VNIIPO	T/S/U	PAVUS
0260	PS10-1	½"	1	17.2	0.58	√	√	√	√	√	√	√		√	√
0261	PS10-2	½"	2	17.2	0.62	√	√	√	√	√	√	√	√	√	√

Features	
Description	Specification
Connection	½" NPT
Typical Differential	0.13 Bar
Factory Setting	0.27-0.55 Bar
Max. Pressure	17.2 Bar
IP Rating	IP66
NEMA rating	NEMA 4
Temperature	-40 / + 60°C
Contacts	SPDT [C] 10,1 A - 125/250 VAC 2,0 A - 30 VDC



Note: To prevent leakage, apply Teflon tape sealant to male threads only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Pressure Switches

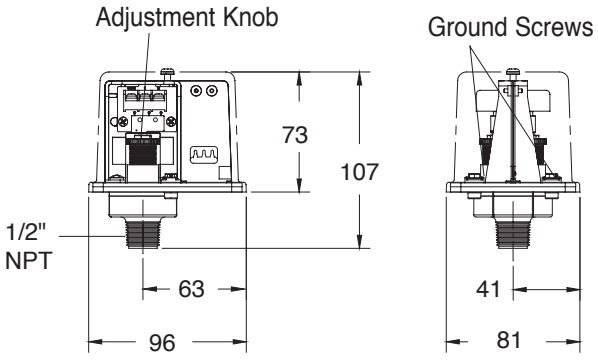
PS40-1 or PS40-2

Pressure Switch

Sizes	½" NPT
Approvals	UL Listed & FM, VdS, LPCB & CE Approved
Tech Data Sheet	Contact Tyco for details

PS40-1 or PS40-2 Pressure Switch													
Part Number	Model	Size NPT	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings							
						UL	FM	LPCB	VdS	Fire Academy of Russia	CE	VNIIPO	T/S/U
262	PS40-1	½"	1	17.2	0.68	√	√	√	√	√	√		√
263	PS40-2	½"	2	17.2	0.7	√	√	√	√	√	√	√	√

Features	
Description	Specification
Connection	½" NPT
Typical Differential	0.07 at 7 Bar & 0.28 at 4.1 Bar
Adjustment Pressure	0.7-4.1 Bar
Factory Setting	2.1 Bar
Max. Pressure	17.2 Bar
IP Rating	IP66
NEMA rating	NEMA 4
Temperature	-40 / + 60°C
Contacts	SPDT [C] 10,1 A - 125/250 VAC 2,0 A - 30 VDC



Note: To prevent leakage, apply Teflon tape sealant to male threads only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

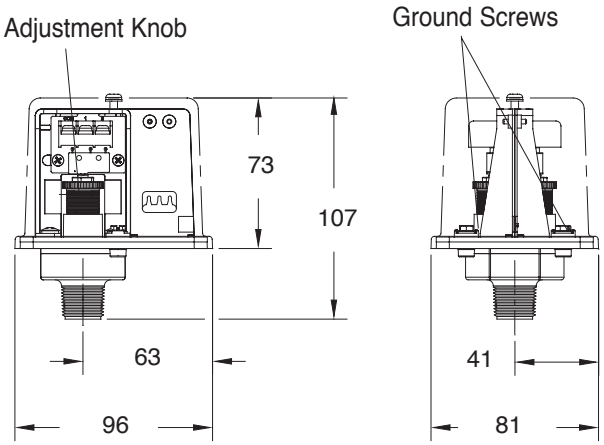
PS100-2

Pressure Switch

Sizes	½" NPT
Approvals	UL Listed & FM, LPCB & CE Approved
Tech Data Sheet	Contact Tyco for details

PS100-2 Pressure Switch											
Part Number	Model	Size NPT	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings					
						UL	FM	LPCB	Fire Academy of Russia	CE	VNIIPO
0264	PS100-2	½"	2	20.7	0.70	√	√	√	√	√	√

Features	
Description	**Specification**
Connection	½" NPT
Typical Differential	0.14 at 1.7 Bar & 0.55 at 12.1 Ba
Adjustment Pressure	1.7-12.1 Bar
Factory Setting	6.2 Bar
Max. Pressure	20.7 Bar
IP Rating	IP66
NEMA rating	NEMA 4
Temperature	-40 / + 60°C
Contacts	SPDT [C] 10,1 A - 125/250 VAC 2,0 A - 30 VDC



Note: To prevent leakage, apply Teflon tape sealant to male threads only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Pressure Switches

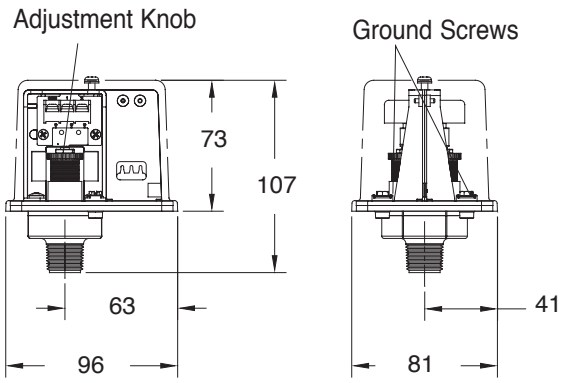
PS120-1 or PS120-2

Pressure Switch

Sizes	½" NPT
Approvals	UL Listed & FM, VdS, LPCB & CE Approved
Tech Data Sheet	Contact Tyco for details

PS120-1 or PS120-2 Pressure Switch												
Part Number	Model	Size NPT	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings						
						UL	FM	LPCB	VdS	Fire Academy of Russia	CE	VNIIPO
0266	PS120-1	½"	1	20.7	0.8	√	√	√	√	√	√	
0267	PS120-2	½"	2	20.7	0.8	√	√	√	√	√	√	√

Features	
Description	**Specification**
Connection	½" NPT
Typical Differential	0.14 at 1.7 Bar & 0.55 at 12.1 Bar
Adjustment Pressure	1.7–12.1 Bar
Factory Setting [Pressure Increase]	9.0 Bar
Factory Setting [Pressure Decrease]	7.6 Bar
Max. Pressure	20.7 Bar
IP Rating	IP66
NEMA rating	NEMA 4
Temperature	-40 / + 60°C
Contacts	SPDT [C] 10,1 A - 125/250 VAC 2,0 A - 30 VDC



Note: To prevent leakage, apply Teflon tape sealant to male threads only

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

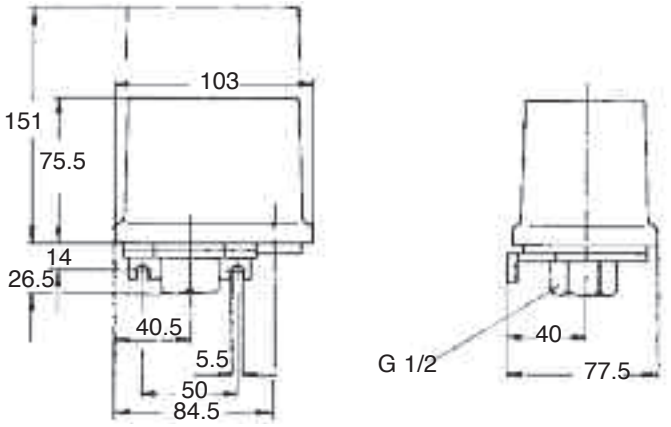
FF4-2

Pressure Switch

Sizes	1/2" NPT
Approvals	VdS & CE Approved
Tech Data Sheet	Contact Tyco for details

FF4-2 Pressure Switch									
Part Number	Model	Size NPT	Size G	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings		
							VdS	PAVUS	CE
013334200	FF4-2	1/2"	1/2"	1	20	1.00	√	√	√

Features	
Description	**Specification**
Connection	G 1/2" Female
Max. Differential	0.1 Bar
Adjustment Pressure	0.5 - 1.0 Bar
Factory Setting [Pressure Increase]	-
Factory Setting [Pressure Decrease]	-
Max. Pressure	20.0 Bar
IP Rating	IP54
NEMA rating	-
Temperature	+4 / + 70°C
Contacts	SPDT [C] 6 A - 220 VAC 6 A - 12 VDC



Pressure Switches

PS10-EX or PS40-EX

Explosion Proof Pressure Switch

Sizes	½" NPT
Approvals	UL Listed & FM & CE Approved
Tech Data Sheet	Contact Tyco for details

PS10-EX or PS40-EX Explosion Proof Pressure Switch										
Part Number	Model	Size NPT	Number of SPDT Contacts	P bar	Weight kg	Approval & Listings				
						UL	FM	CENELEC	CE	ATEX
237EX	PS10-EX	½"	2	20,68	0.64	√	√	√	√	√
238EX	PS40-EX	½"	2	20,68	0.64	√	√	√	√	√

Features		
Description	Specification	
	PS10-EXF	PS40-EXF
Connection	½" NPT	½"" NPT
Max. Differential	0.07 Bar	0.14 - 1.38 Bar & 0.34 - 12.07 Bar
Adjustment Pressure	0,27 - 1.3 Bar	0,27 - 1,3 Bar
Factory Setting [Pressure Increase]	0.41 ± 0.07 Bar	3.5 Bar
Factory Setting [Pressure Decrease]	0.35 ± 0.07 Bar	2.1 Bar
Max. Pressure	20,7 Bar	20,68 Bar
IP Rating	IP66	IP66
NEMA rating	4.9	4.9
Temperature	-40 / + 60°C	-40 / + 60°C
Contacts	2x SPDT [C] 15 A - 125/250 VAC 2.5 A - 30 VDC	2x SPDT [C] 15 A - 125/250 VAC 2.5 A - 30 VDC

II2G Ex dIIB T6

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

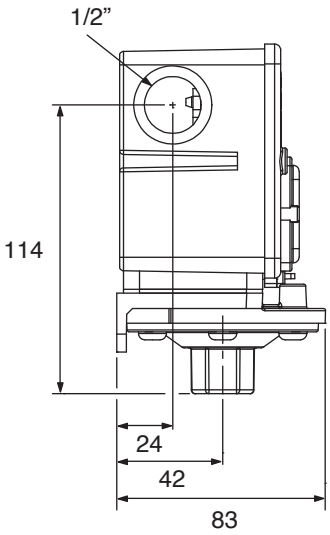
ADPS-300-1B

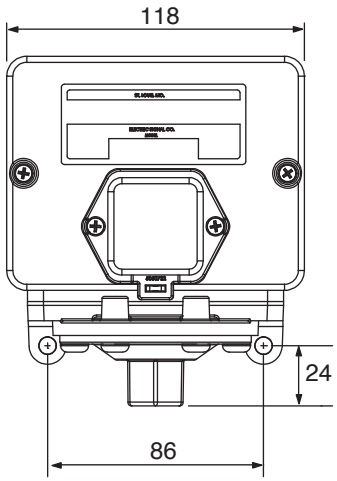
Pressure Switches for Controlling Pumps

Sizes	¼" NPT Female
Approvals	UL Listed & CE Approved
Tech Data Sheet	Contact Tyco for details

ADPS-300-1B Pressure Switch for Controlling Pumps							
Part Number	Adj. Operating Range Bar	Differential Bar	Proof Pressure Bar	Factory Setting Bar	Weight kg	Approval & Listings	
						UL	CE
1370010	1.73-20.7	0.83	27.6	6.2 4.1	1.2	√	√

Features	
Description	Specification
Connection	¼" NPT Female Thread
Max. Pressure	27.6 Bar
IP Rating	IP66
NEMA rating	NEMA 4X
Temperature	-20 / + 82°C
Contacts	SPDT [C] 15 A - 125 VAC 1/8 HP - 125 VAC 1/4 HP - 250 VAC





Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Pressure Switches

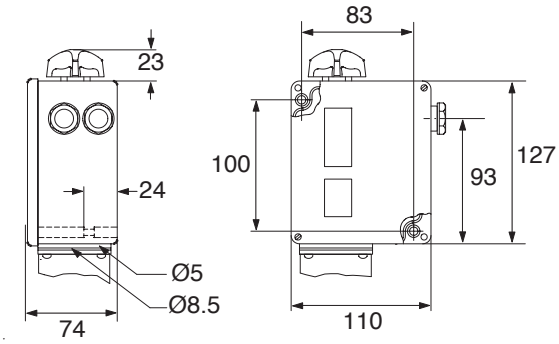
RT

Pressure Switches for Controlling Pumps

Sizes	3/8" BSP Male
Approvals	CE Approved
Tech Data Sheet	Contact Tyco for details

RT Pressure Switch for Controlling Pumps					
Part Number	Adj. Operating Range Bar	Differential Bar	Proof Pressure Bar	Weight kg	Approval & Listings CE
RT5	4.0 - 17.0	0.3 - 2.5	22	0.8	√
RT200	0.2 - 6.0	0.25 - 1.2	22	0.8	√

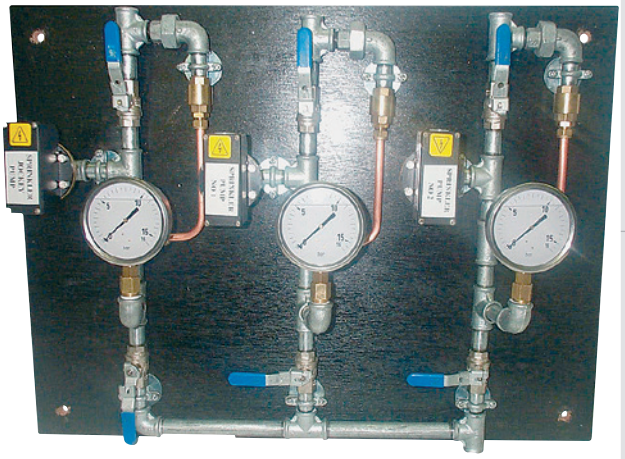
Features	
Description	Specification
Connection	3/8" BSP Male Thread
Max. Pressure	22.0 Bar
IP Rating	IP66
NEMA rating	-
Temperature	-50 / + 70°C
Contacts	SPDT [C] 10 A, 400 VAC 12W, 220 VDC



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

PUMP BOARD

UK Pump Initiation Boards



Approvals	CE Approved
Tech Data Sheet	Contact Tyco for details

UK Pump Initiation Boards				
Part Number	Switch Type	Switch Control Main Pump	Switch Control Jockey Pump	Approval & Listings CE
PIB2WAY	Single Switch	1 x	1 x	√
PIB3WAY	Single Switch	2 x	1 x	√
PIB4WAY	Single Switch	3 x	1 x	√
PIB2WAYX2	Double Switch	1 x	1 x	√
PIB3WAYX2	Double Switch	2 x	1 x	√
PIB4WAYX2	Double Switch	3 x	1 x	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Pressure Switches

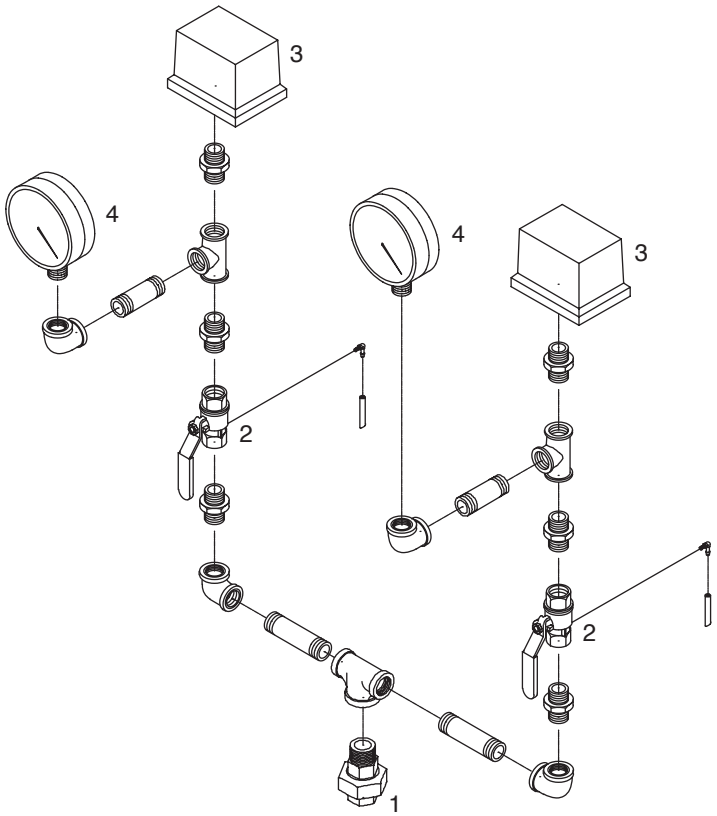
CUSP

Control Unit Sprinkler Pump

Approvals	VdS Approved
Tech Data Sheet	Contact Tyco for details

CUSP - Control Unit Sprinkler Pump			
Part Number	Callout No.	Description	Approval & Listings
			VdS
CUSP000204	1	Inlet: ¾" Union Female BSP	√
	2	Ball Valve ½"	√
	3	Pressure Switch FF4-10	√
	4	Pressure Gauge 0-16 Bar ½"	√

Built according to VdS standards.



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

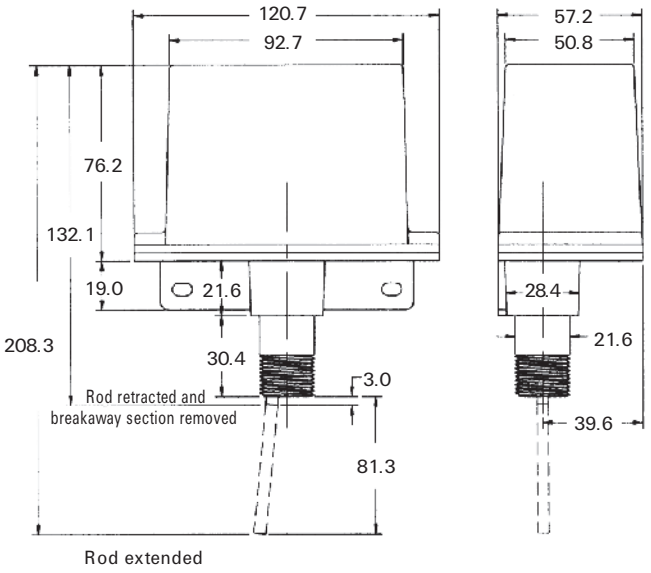
PCVS

Supervisory Switch

Sizes	½" NPT
Approvals	UL Listed & FM & CE Approved
Tech Data Sheet	Contact Tyco for details

PCVS Supervisory Switch						
Part Number	Model	Number of SPDT Contacts	Weight kg	Approval & Listings		
				UL	FM	CE
221	PCVS-2	2	0.7	√	√	√

Features	
Description	**Specification**
Connection	½" NPT
IP Rating	IP65/IP67
NEMA rating	NEMA 4X/6P
Temperature	-40 / + 60°C
Contacts	2x SPDT [C] 10 A - 125/250 VAC 2 A - 30 VDC



Supervisory Switches

OSYSU

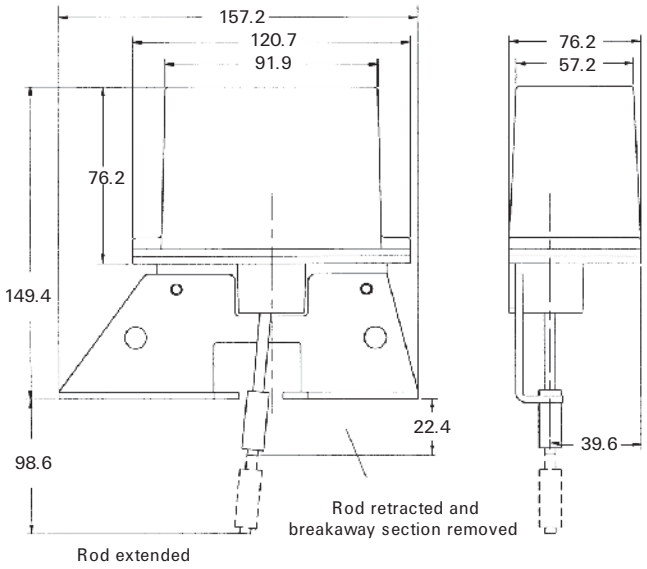
Supervisory Switch

Approvals	UL Listed & FM & CE Approved
Tech Data Sheet	Contact Tyco for details

Used to monitor the open position of an OS&Y (outside screw and yoke) type gate valve ■ Mounts conveniently to most OS&Y valves ranging in size from DN50 - DN300 (2" to 12") ■ Can be used on some valves as small as ½" ■ Models include options for one or two sets of SPDT (Form C) contacts.

OSYSU Supervisory Switch						
Part Number	Model	Number of SPDT Contacts	Weight kg	Approval & Listings		
				UL	FM	CE
217	OSYSU-1	1	0.9	√	√	√
218	OSYSU-2	2	0.9	√	√	√

Features	
Description	Specification
IP Rating	IP65 / IP67
NEMA rating	NEMA 4X/6P
Temperature	-40 / + 60°C
Contacts	OSYSU-1, SPDT [C] OSYSU-2, 2x SPDT [C] 10 A - 125/250 VAC 2 A - 30 VDC



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

PIVS-U-EX

Explosion Proof Supervisory Switch

Sizes	½" NPT
Approvals	UL Listed Explosion-Proof Switch Enclosure
Tech Data Sheet	Contact Tyco for details

PIVS-U-EX Explosion Proof Supervisory Switch			
Part Number	Model	Number of SPDT Contacts	Weight kg
225-072501	PIVS-U-EX	1	1.50

Features	
Description	Specification
Connection	½" NPT
Temperature	-40 / + 60°C
Contacts	SPDT [C]

II2G Ex dIIC T6

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Supervisory Switches

OSYS-U-EX

Explosion Proof Supervisory Switch

Sizes	½" NPT
Approvals	UL Listed Explosion-Proof Switch Enclosure
Tech Data Sheet	Contact Tyco for details

OSYS-U-EX Explosion Proof Supervisory Switch			
Part Number	Model	Number of SPDT Contacts	Weight kg
214-072501	OSYS-U-EX	1	0.90

Features	
Description	Specification
Connection	½" NPT
Temperature	-40 / + 60°C
Contacts	SPDT [C]

II2G Ex dIIC T6

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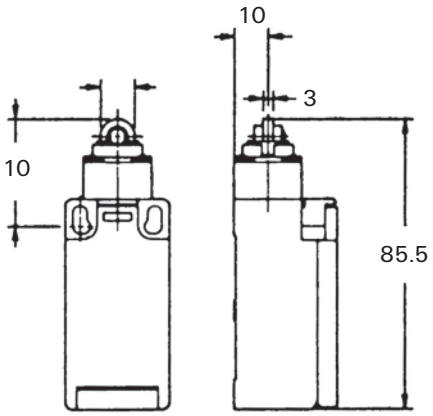
Fig. I88

Monitor Switch

Approvals	UL Listed & CE Approved
Tech Data Sheet	Contact Tyco for details

Fig. I88 Monitory Switch				
Part Number	Model	Weight kg	Approval & Listings	
			CE	UL
997908	I88	0.07	√	√

Features	
Description	Specification
Connection	-
IP Rating	IP65
NEMA rating	-
Temperature	-30 / + 80°C
Contacts	10 A - 500 VAC



Monitor Switches

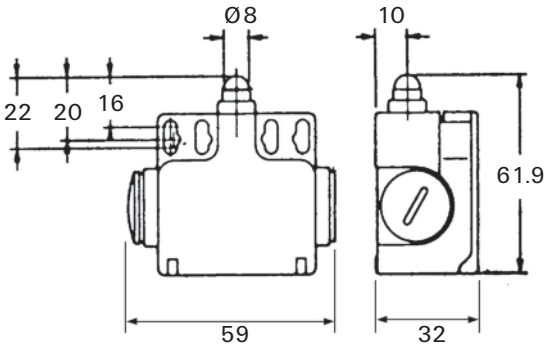
BIGGY

Monitor Switch

Approvals	UL Listed & CE Approved
Tech Data Sheet	Contact Tyco for details

BIGGY Monitory Switch				
Part Number	Model	Weight kg	Approval & Listings	
			CE	UL
999887	BIGGY	0.08	√	√

Features	
Description	Specification
Connection	-
IP Rating	IP65
NEMA rating	-
Temperature	-30 / + 70°C
Contacts	10 A - 500 VAC



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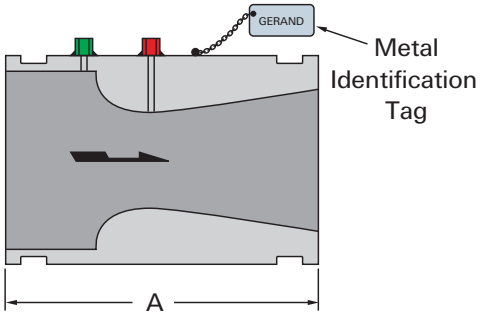
VENTURI

Flow Meter Butt Weld, Grooved Ends

Sizes	DN65 thru DN300
Approvals	FM Approved
Tech Data Sheet	Contact Tyco for details

VENTURI Flow Meter Butt Weld, Grooved Ends											
Part Number	Size			Pump Capacity	Flow Range		Dim. A	Required straight pipe length [mm]		Weight kg	Approval & Listings
	DN	in	mm		LPM	GPM		Before	After		FM
K010000734	65	2-1/2"	73	100	189-757	50-200	101.6	365	146	4	√
K015000894	80	3"	89	150	284-1135	75-300	111.1	445	178	8	√
K020000894	80	3"	89	200	378-1514	100-400	111.1	445	178	8	√
K025001144	100	4"	114.3	250	473-1892	125-500	95.3	570	228	8	√
K030001144	100	4"	114.3	300	567-2271	150-600	95.3	570	228	8	√
K045001144	100	4"	114.3	450	851-3406	225-900	95.3	570	228	8	√
K050001414	125	5"	141.3	500	946-3785	250-1000	127	695	278	8.5	√
K075001684	150	6"	168.3	750	1419-5677	375-1500	152.4	840	336	8.5	√
K100001684	150	6"	168.3	1000	1892-7570	500-2000	152.4	840	336	8.5	√
K125001684	150	6"	168.3	1250	2365-9462	625-2500	152.4	840	336	8.5	√
K150002194	200	8"	219.1	1500	2838-11355	750-3000	177.8	1095	438	10.5	√
K200002194	200	8"	219.1	2000	3785-15140	1000-4000	177.8	1095	438	10.5	√
K250002194	200	8"	219.1	2500	4731-18925	1250-5000	177.8	1095	438	10.5	√
K300002194	200	8"	219.1	3000	5677-22710	1500-6000	177.8	1095	438	10.5	√
K350002734	250	10"	273	3500	6623-26495	1750-7000	203.2	1365	546	13	√
K400002734	250	10"	273	4000	7570-30280	2000-8000	203.2	1365	546	13	√
K450002734	250	10"	273	4500	8516-34065	2250-9000	203.2	1365	546	13	√
K500003244	300	12"	323.9	5000	9462-37850	2500-10000	304.8	1620	648	18	√



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Flow Meters

MAGFLO

Electromagnetic Flow Meters

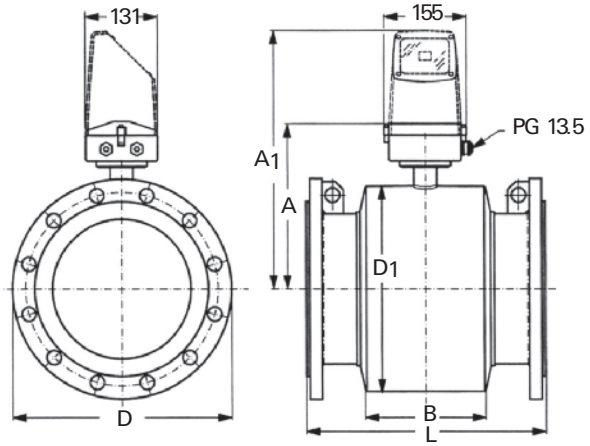
Sizes	DN65 thru DN250 (2-½" thru 10")
Approvals	VdS & CE Approved
Tech Data Sheet	Contact Tyco for details

MAGFLO Electromagnetic Flow Meters													
Part Number	Size		Retard Settings (Sec.)						Flow Range	Flange x Flange	Weight kg	Approval & Listings	
	DN	in	A	A_1	B	D	D_1	L				CE	VdS
MAGFLO0768	65	2-½"	212	363	72	185	154	200	0 - 2000	PN16	12	√	√
MAGFLO0898	80	3"	222	373	72	200	174	200	0 - 3000	PN16	12	√	√
MAGFLO1148	100	4"	242	393	85	220	214	250	0 - 4667	PN16	16	√	√
MAGFLO1398	125	5"	255	406	85	250	239	250	0 - 7333	PN16	19	√	√
MAGFLO1688	150	6"	276	427	85	285	282	300	0 - 10600	PN16	27	√	√
MAGFLO2197	200	8"	304	455	137	340	338	350	0 - 18833	PN10	40	√	√
MAGFLO2737	250	10"	332	483	137	395	393	450	0 - 29333	PN10	55	√	√

Required straight pipe length [mm] before: 5D

Required straight pipe length [mm] after: 3D

Optional equipments	
Part Number	Specification
MAGFLOBRAC	Wall Bracket
MAGFLOCABE	Extension Cable



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Turbo-Lux3

Flow Meters

Sizes	DN50 thru DN200
Approvals	FM, LPCB, & VdS Approved
Tech Data Sheet	Contact Tyco for details

Model: Turbo-Lux 3 Short Outlet (2xD)										
Part Number	Size		End Connection	PN bar	Capacity	Temperature	Weight kg	Approval & Listings		
	DN	in						FM	LPCB	VdS
TL3EBS060G	50	60,3	Grooved	16	20-100GPM / 75-375LPM	50°C	2.0	√	√	√
TL3FCS076G	65	76,1	Grooved	16	40-200GPM / 150-750LPM	50°C	2.1	√	√	√
TL3GDS089G	80	88,9	Grooved	16	60-300GPM / 220-1100LPM	50°C	2.3	√	√	√
TL3GES089G	80	88,9	Grooved	16	80-400GPM / 300-1500LPM	50°C	2.3	√	√	√
TL3HFS114G	100	114,3	Grooved	16	100-500GPM / 380-1900LPM	50°C	3.2	√	√	√
TL3HGS114G	100	114,3	Grooved	16	120-600GPM / 460-2300LPM	50°C	3.2	√	√	√
TL3HHS114G	100	114,3	Grooved	16	160-800GPM / 600-3000LPM	50°C	3.2	√	√	√
TL3HJS114G	100	114,3	Grooved	16	180-900GPM / 680-3400LPM	50°C	3.2	√	√	√
TL3KKS168G	150	168,3	Grooved	16	200-1000GPM / 760-3800LPM	50°C	3.2	√	√	√
TL3KLS168G	150	168,3	Grooved	16	300-1500GPM / 1130-5650LPM	50°C	4.9	√	√	√
TL3KMS168G	150	168,3	Grooved	16	400-2000GPM / 1500-7500LPM	50°C	4.9	√	√	√
TL3LPS219G	200	219,1	Grooved	16	600-3000GPM / 2200-11000LPM	50°C	6.4	√	√	√
TL3LQS219G	200	219,1	Grooved	16	800-4000GPM / 3000-15000LPM	50°C	6.4	√	√	√

Model: Turbo-Lux 3 - Scale Graduation								
Nominal Size		Pump Rating (GPM)	Flow Range (GPM)	Step (GPM)	Graduation (GPM)	Flow Range (Lpm)	Step (Lpm)	Graduation (Lpm)
DN	in							
50	2"	50	20 - 100	10	5	75 - 375	50	5
65	2-½"	100	40 - 200	20	4	150 - 750	100	5
80	3"	150	60 - 300	50	5	220 - 1.100	200	4
80	3"	200	80 - 400	50	5	300 - 1.500	200	4
100	4"	250	100 - 500	50	5	380 - 1.900	200	4
100	4"	300	120 - 600	100	5	460 - 2.300	200	4
100	4"	400	160 - 800	100	5	600 - 3.000	500	5
100	4"	450	180 - 900	100	5	680 - 3.400	500	5
150	6"	500	200 - 1.000	100	5	760 - 3.800	500	5
150	6"	750	300 - 1.500	200	4	1.130 - 55.650	1.000	5
150	6"	1.000	400 - 2.000	200	4	1.500 - 7.500	1.000	5
150	6"	1.250	500 - 2.500	500	5	1.900 - 9.500	1.000	5
200	8"	1.500	600 - 3.000	500	5	2.200 - 11.000	2.000	4
200	8"	2.000	800 - 4.000	500	5	3.000 - 15.000	2.000	4
200	8"	2.500	1.000 - 5.000	1.000	5	3.800 - 19.000	2.000	4
200	8"	3.000	1.200 - 6.000	1.000	5	4.500 - 22.500	2.000	4

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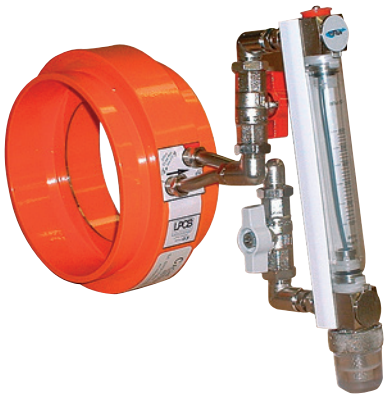
Flow Meters

INFLUX

Flow Meters



Sizes	DN50 thru DN200 (2" thru 8")
Approvals	FM & LPCB Approved
Tech Data Sheet	Contact Tyco for details

INFLUX Flow Meters								
Part Number	Size		Type	Flow	Straight Pipe before & after	F-F mm	Approval & Listings	
	DN	in					FM	LPCB
F3/1	50	2"	Wafer	150-700 LPM	250	40		√
F3/2	80	3"	Wafer	300-1600 LPM	400	40		√
F3/3	100	4"	Wafer	500-3500 LPM	500	40		√
F3/4	150	6"	Wafer	900-7900 LPM	750	40		√
F3/5	200	8"	Wafer	2000-15000 LPM	1000	40		√
F3/6	50	2"	Grooved	150-700 LPM	250	90		√
F3/7	80	3"	Grooved	300-1600 LPM	400	90		√
F3/8	100	4"	Grooved	500-3500 LPM	500	90		√
F3/9	150	6" [165.1mm]	Grooved	900-7900 LPM	750	90		√
F3/9 FM	150	6" [168.3mm]	Grooved	1000-7500LPM	750	90	√	
F3/10	200	8"	Grooved	2000-15000 LPM	1000	100		√

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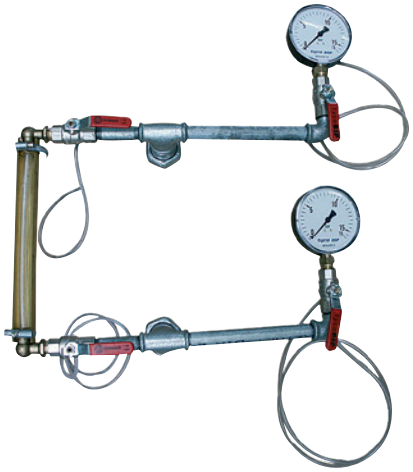
FST-A

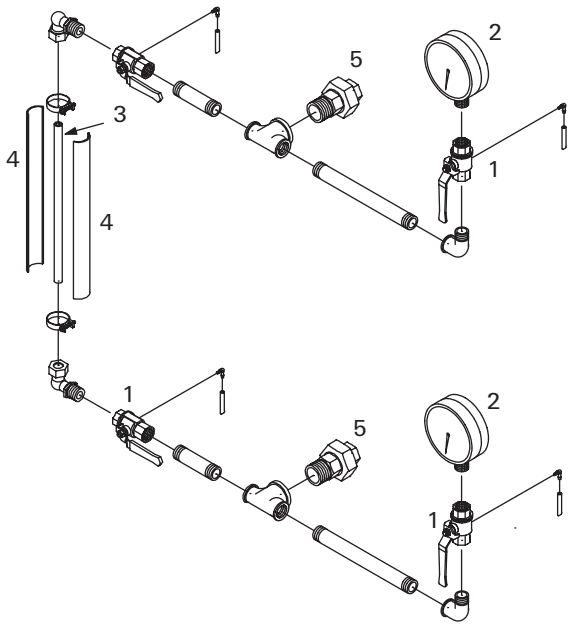
Water Tank Equipment Water Level Indicator for Air Pressurized Water Tank, Type A



Approvals	VdS Approved
Tech Data Sheet	Contact Tyco for details

FST-A - Water Level Indicator for Air Pressurized Water Tank, Type A			
Part Number	Callout No.	Description	Approval & Listings
			VdS
FSTA021AGR	1	Ball Valve ½"	√
	2	Pressure Gauge 0-16 Bar ½"	√
	3	Level Indicator Pipe PN10 Ø12 mm, Length 480 mm	
	4	Protection Tube, Length 450 mm	√
	5	Union 1" Female	√

Built according to VdS standards.



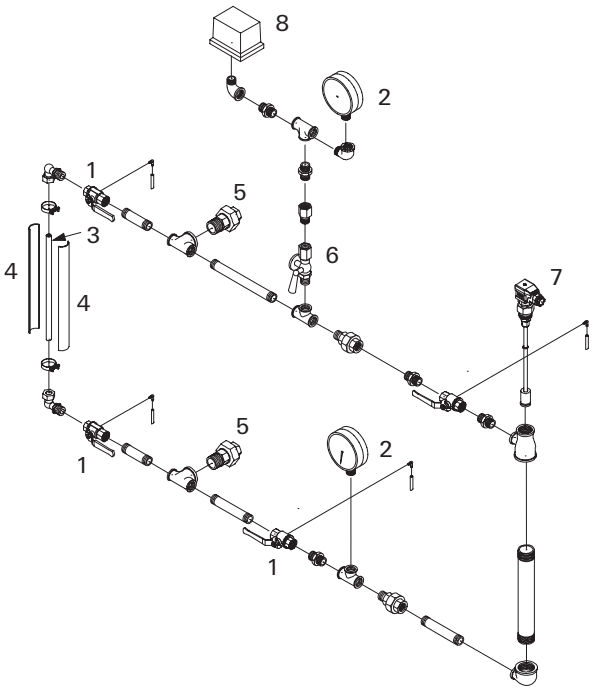
Water Tank Equipment

FST-B

Water Tank Equipment Water Level Indicator for Air Pressurized Water Tank, Type B

Approvals	VdS Approved
Tech Data Sheet	Contact Tyco for details

FST-B - Water Level Indicator for Air Pressurized Water Tank, Type B			
Part Number	Call out No.	Description	Approval & Listings VdS
FSTA021BGR	1	Ball Valve ½"	√
	2	Pressure Gauge 0-16 Bar ½"	√
	3	Level Indicator Pipe PN10 Ø12 mm, Length 480 mm	√
	4	Protection Tube, Length 450 mm	√
	5	Unions 1" BSP Male	√
	6	Valve with Test Flange ½""	√
	7	Float Switch 1" BSP	√
	8	Pressure Switch FF4-10 ½"	√



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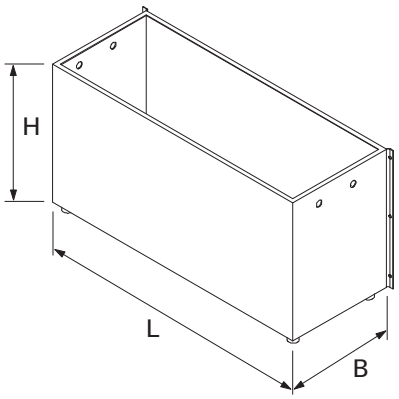
FEEDING TANK

Feeding Tank Hot Dip Galvanized

Volume	100L, 200L & 500L
Approvals	UL Listed & FM & CE Approved
Tech Data Sheet	Contact Tyco for details

FEEDING TANK Feeding Tank Hot Dip Galvanized					
Part Number	Volume	Dimension mm			Weight kg
		L	B	H	
TANK100WOV	100 l.	1000	400	425	45
TANK200WOV	200 l.	1100	450	530	52
TANK500WOV	500 l.	1500	550	500	110

Float Valve			
Part Number	DN	Description	Weight kg
FLOAT00340	25	Float Valve including Float Ball, BSP Ma	1.4



Water Tank Equipment

FLOAT SWITCH

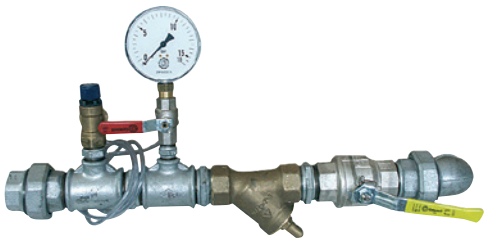
Float Switch for Level Regulations and Pump Control

Length	0.5m thru 20m
Tech Data Sheet	Contact Tyco for details

FLOAT SWITCH - Float Switch for Level Regulations and Pump Control			
Part Number	Cable Length [m]	MA x T °C	Cable
19000500	0.5	50	3 x 1 mm2, max. 10A
19020000	2	50	3 x 1 mm2, max. 10A
19030000	3	50	3 x 1 mm2, max. 10A
19050000	5	50	3 x 1 mm2, max. 10A
19100000	10	50	3 x 1 mm2, max. 10A
19150000	15	50	3 x 1 mm2, max. 10A
19200000	20	50	3 x 1 mm2, max. 10A

FEEDING DEVICE

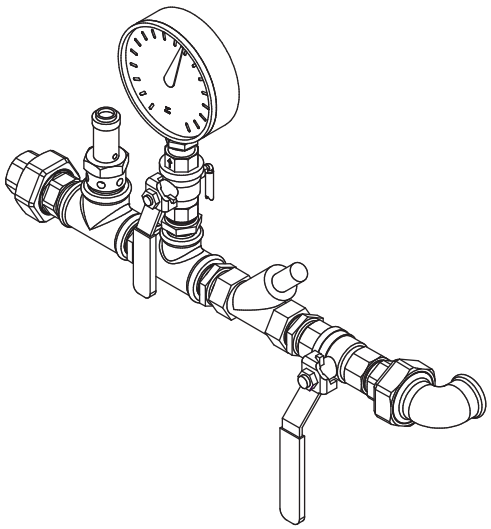
Water Tank Equipment



Sizes	Water: 1-1/2" Air: 3/4"
Approvals	VdS Approved
Tech Data Sheet	Contact Tyco for details

FEEDING DEVICE - Water Tank Equipment		
Part Number	Description	Approval & Listings
		VdS *
WE048DLWKG	Water feeding Device 1-1/2"	√
LE027DLWKG	Air feeding Device 3/4"	√

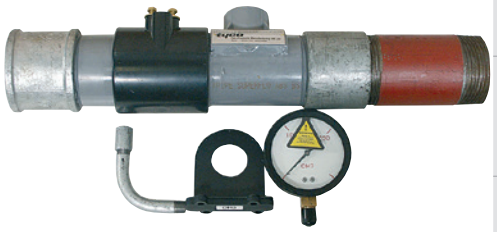
*When combined with VdS approved valve



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

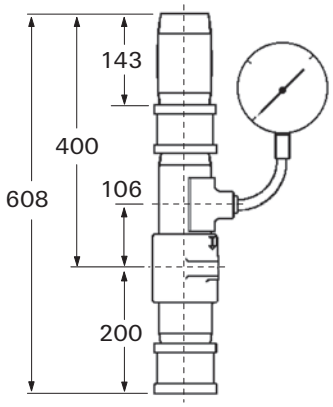
PROVING PIPES

Water Supplies Proving Equipment



Body	Malleable Iron, Galvanized, Mild Steel, Noryl, ABS
Approvals	LPCB listed in combination with BW valve only.
Tech Data Sheet	AS. 128 Contact Tyco for details

PROVING PIPES - Water Supplies Proving Equipment							
Part Number	Hazzard Group	Inlet BSP Male	Outlet BSP Female	Gauge Readings		Weight kg	Approval & Listings
				1st	2nd		LPCB
01308	XLH	3″	3″	275	-	7	√
01309	OH1	3″	3″	375	540	7	√
01310	OH2	3″	3″	725	1000	7	√
01311	OH3	3″	3″	1100	1350	7	√
01312	OH3 Special	3″	3″	1800	2100	7	√
01313	XHH 7.5 mm/min	3″	3″	2300	-	7	√
01333	XHH 10 mm/min	3″	3″	3050	-	7	√



Water Tank Equipment

GAUGE

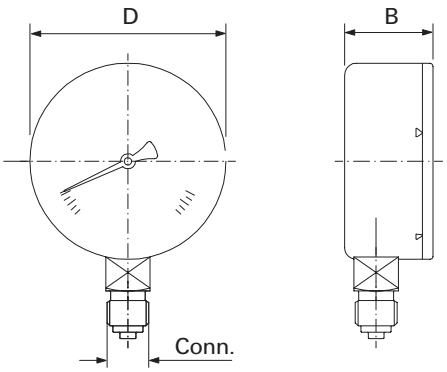
Water Supplies Proving Equipment

Approvals	UL Listed & FM Approved
Tech Data Sheet	Contact Tyco for details

Other options available on request

GAUGE - Water Supplies Proving Equipment									
Part Number	Connection	Meter Range	Type	Material	Dimensions mm		Weight kg	Approval & Listings	
					D	B		UL	FM
25500013	1/4" NPT	0-400 Psi	Dry	Black	94	46	0.4		√
923431012	1/4" NPT	0-300 Psi	Dry	ABS	94	29	0.15	√	√
2135338	3/8" ISO	0-16 Bar	Glycerin	St. Steel	100	46	0.35		
7125411	1/2" ISO	0-16 Bar	Dry	Steel	100	46	0.4		
7125411G	1/2" ISO	0-16 Bar	Glycerin	St. Steel	100	46	0.8		
7125411G63	1/4" ISO	0-16 Bar	Glycerin	St. Steel	63	46	0.8		
7125438	1/2" ISO	0-16 Bar	Dry	Steel	100	46	0.4		
7125454	1/4" NPT	0-10 Bar	Dry	Steel	100	46	0.4		
2161086	1/2" ISO	-1-3 Bar	Glycerin	St. Steel	100	50	0.8		
W01000110	1/2" ISO	0-25 Bar	Dry	Steel	100	46	0.4		
9296808*	1/2" ISO	0-16 Bar	Dry	Steel	100	46	0.6		

*Gauge also includes pressure switch



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MAXANTKIT

Pressure Reading Equipment

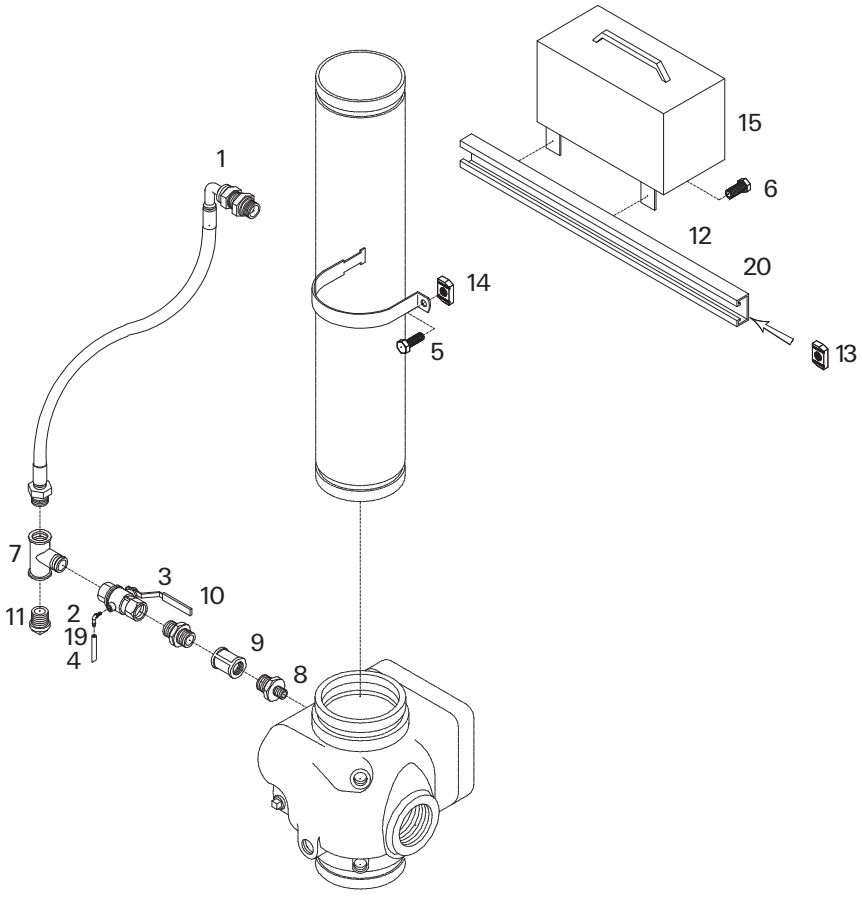
Sizes	½" BSP
Tech Data Sheet	Contact Tyco for details

Maxant - Pressure Reader						
Part Number	Connection	DN	P max	Adjustment Range	Voltage	Accuracy
MAXANTKIT	½" BSP	100, 150, 200	16 Bar	1 day, 7days	1.5 V Battery	±1% Pmax

Parts List		
Item No.	Quantity	Part Number
1	1	2111000
2	1	406012
3	1	59304FO
4	5	713700
5	2	933512X25
6	2	93356X20
7	1	A133D2
8	1	A245DB2
9	1	A270D2
10	1	A280D2
11	1	A290D2
12	2	MCF2F
13	2	PNP06ZP
14	2	PNP12AZP
15	1	REF48
16	1	SS2/KH
17	1	SS2/MH
18	1	SS2/NH
19	1	WS00000004
20	1	WS00000035

Spare Parts	
Part Number	Description
REF48*	Maxant Pressure Reader
251200016	Paperband [100 pages]
552700001	Pen [min. order 5 pcs.]

*Includes 251200016 and 552700001



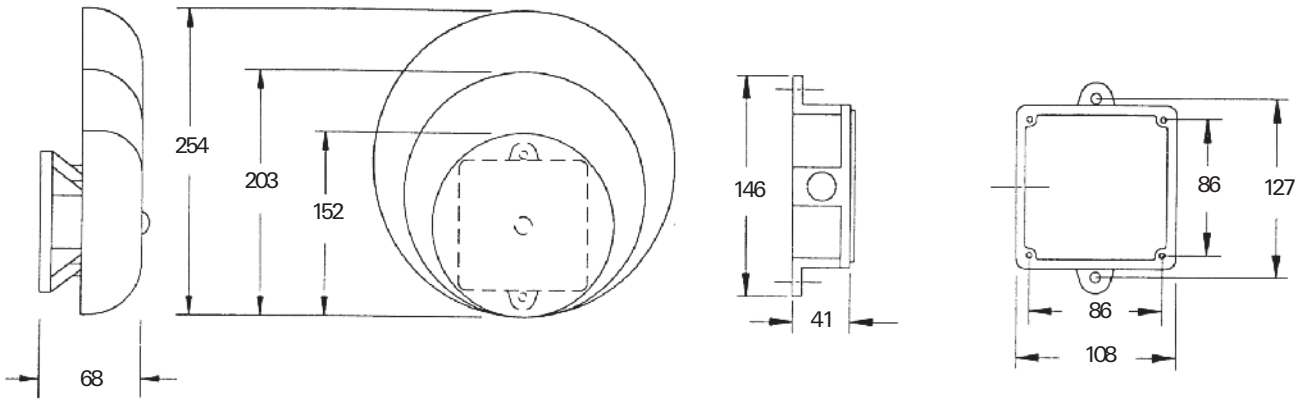
Water Tank Equipment

PBA-AC

Electric Bells

Sound	87 - 99 dB
Approvals	UL Listed & FM Approved
Tech Data Sheet	Contact Tyco for details

PBA-AC - Electric Bells								
Part Number	ØD	Model	Voltage	Current [max.] A	dB 3 mtrs.	Weight kg	Approval & Listings	
							UL	FM
25001680	152	PBA246	24 VAC	0.17	91	1.2	√	√
25001681	152	PBA1206	120 VAC	0.05	92	1.2	√	√
25002190	203	PBA248	24 VAC	0.17	94	1.2	√	√
25002191	203	PBA1208	120 VAC	0.05	99	1.2	√	√
25002730	254	PBA2410	24 VAC	0.17	94	1.2	√	√
25002731	254	PBA12010	120 VAC	0.05	99	1.2	√	√



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Tyco CPVC Pipe & Fittings

Manufactured with BlazeMaster® compound.

- Light Hazard & Residential Occupancies
- Unfinished basements
- Underground Water Pressure Service
- Connections to Copper & Steel Piping
- Resistance of Sweating, Condensation, & MIC

CPVC Pipe & Threaded Fittings

CPVC Pipe

Sprinkler Pipe

Sizes	DN20 thru DN80 (¾" thru 3")
Pipe Length	3.05m (10') Lengths
Approvals	UL, C-UL Listed & FM, MEA, NSF, Fire Academy of Russia, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC pipe is designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC pipe is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC piping materials. ■ TYCO CPVC sprinkler pipe conforms to the requirements of ASTM F442 and is produced to SDR 13.5. SDR (Standard Dimension Ratio) is the ratio of the outside pipe diameter to the wall thickness of the pipe.

CPVC Pipe												
Part No.	Size		OD mm	ID mm	Length m	Weight kg	Approval Listings					
	DN	In.					LPCB	FM	UL	MEA	NSF	Fire Academy of Russia
80300T	20	¾"	26.7	22.7	3.05	0.6	√	√	√	√	√	√
80301T	25	1"	33.4	28.5	3.05	0.9	√	√	√	√	√	√
80302T	32	1-¼"	42.1	35.9	3.05	1.4	√	√	√	√	√	√
80303T	40	1-½"	48.3	41.1	3.05	1.8	√	√	√	√	√	√
80304T	50	2"	60.3	51.4	3.05	2.9	√	√	√	√	√	√
80305T	65	2-½"	73.0	62.2	3.05	2.9	√	√	√	√	√	
80306T	80	3"	88.9	75.7	3.05	6.3	√	√	√	√	√	

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CPVC Fittings

45° Elbow

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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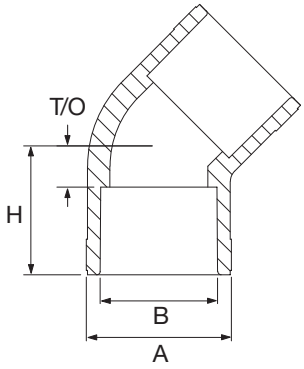

CPVC 45° Elbow											
Part No.	Size		A	H	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80050	20	¾"	33	30	9	0.036	√	√	√	√	√
80051	25	1"	40	33	9	0.050	√	√	√	√	√
80052	32	1-¼"	50	47	20	0.091	√	√	√	√	√
80053	40	1-½"	59	48	12	0.141	√	√	√	√	√
80054	50	2"	72	59	19	0.254	√	√	√	√	√
90055	65	2-½"	89	62	19	0.404	√	√	√	√	√
90056	80	3"	106	75	25	0.504	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

90° Elbow

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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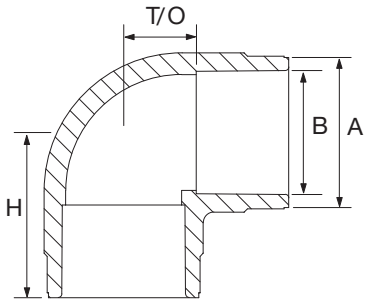

CPVC 90° Elbow											
Part No.	Size		A	H	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80025	20	¾"	33	36	16	0.041	√	√	√	√	√
80026	25	1"	40	43	19	0.063	√	√	√	√	√
80027	32	1-¼"	50	50	23	0.095	√	√	√	√	√
80028	40	1-½"	59	62	27	0.181	√	√	√	√	√
80029	50	2"	72	74	33	0.358	√	√	√	√	√
80030	65	2-½"	87	85	39	0.517	√	√	√	√	√
80031	80	3"	105	95	46	0.825	√	√	√	√	√

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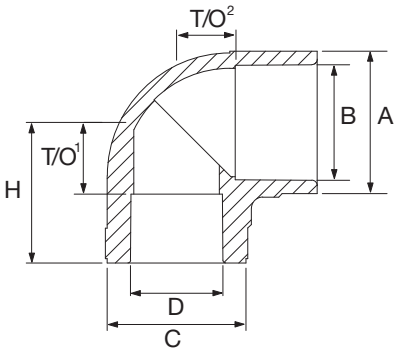
CPVC Fittings

90° Reducing Elbow

Sizes	DN25 x DN20 (1" x ¾")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC 90° Reducing Elbow															
Part No.	B		D		A	C	H	T/O¹	T/O²	Weight	Approval Listings				
	DN	In.	DN	In.	mm	mm	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80032	25	1"	20	¾"	40	40	41	1	17	0.073	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

Tee Equal

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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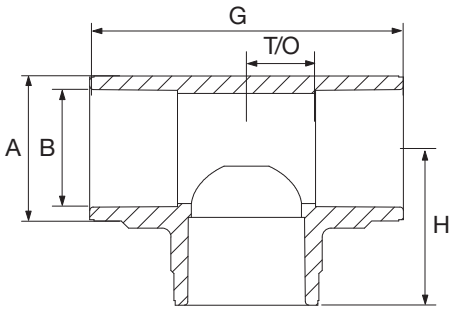

CPVC Tee Equal												
Part No.	Size		A	H	G	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80000	20	¾"	33	36	72	16	0.05	√	√	√	√	√
80001	25	1"	40	40	81	18	0.086	√	√	√	√	√
80002	32	1-¼"	50	48	95	22	0.118	√	√	√	√	√
80003	40	1-½"	59	62	125	27	0.231	√	√	√	√	√
80004	50	2"	72	75	150	36	0.408	√	√	√	√	√
80005	65	2-½"	87	86	171	39	0.721	√	√	√	√	√
80006A	80	3"	105	95	191	46	1.093	√	√	√	√	√

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CPVC Fittings

Cross Equal

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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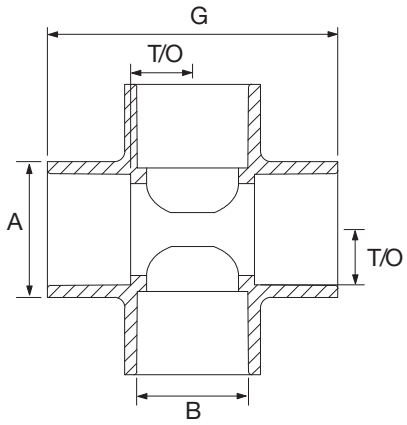

CPVC Cross Equal											
Part No.	Size		A	G	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80009	20	¾"	33	70	15	0.059	√	√	√	√	√
80010	25	1"	40	84	18	0.104	√	√	√	√	√
80011A	32	1-¼"	50	95	23	0.154	√	√	√	√	√
80012	40	1-½"	59	125	27	0.304	√	√	√	√	√
80013	50	2"	72	145	33	0.454	√	√	√	√	√
80014A	65	2-½"	89	171	39	0.866	√	√	√	√	√
80008A	80	3"	106	192	46	1.311	√	√	√	√	√

CPVC Pipe & Threaded Fittings

CPVC Fittings

Reducing Cross

Sizes	DN25 x DN25 DN20 x DN20 (1" x 1" x ¾" x ¾")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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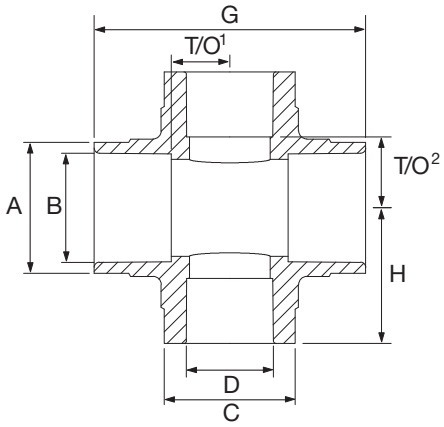

CPVC Reducing Cross																
Part No.	B		D		A	C	G	H	T/O¹	T/O²	Weight	Approval Listings				
	DN	In.	DN	In.	mm	mm	mm	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80015A	25	1"	20	¾"	40	40	84	42	18	22	0.127	√	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Fittings

Coupling Equal

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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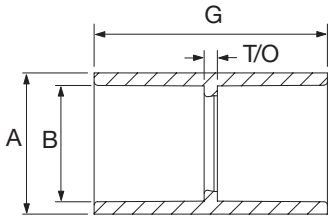

CPVC Coupling Equal											
Part No.	Size		A	G	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80075	20	¾"	33	54	3	0.032	√	√	√	√	√
80076	25	1"	40	64	3	0.05	√	√	√	√	√
80077	32	1-¼"	50	56	4	0.054	√	√	√	√	√
80078	40	1-½"	59	78	5	0.113	√	√	√	√	√
80079	50	2"	72	84	5	0.172	√	√	√	√	√
80080	65	2-½"	87	98	6	0.304	√	√	√	√	√
80081	80	3"	105	108	5	0.413	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

Reducing Coupling

Sizes	DN25 x DN20 (1" x ¾")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
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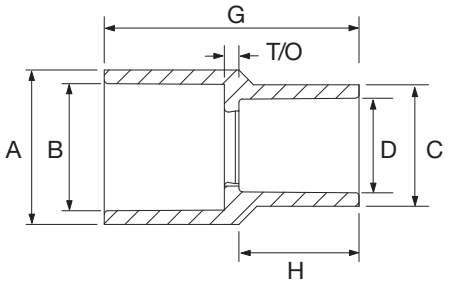

CPVC Reducing Coupling															
Part No.	B		D		A	C	H	T/O[1]	T/O[2]	Weight	Approval Listings				
	DN	In.	DN	In.	mm	mm	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80032	25	1"	20	¾"	40	40	41	1	17	0.073	√	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Fittings

End Cap

Sizes	DN20 thru DN80 (¾" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
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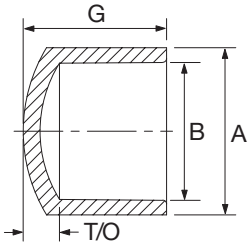

CPVC End Cap											
Part No.	Size		A	G	T/O	Weight	Approval Listings				
	DN	In.	mm	mm	mm	kg	LPCB	FM	UL	MEA	NSF
80100	20	¾"	33	28	7	0.018	√	√	√	√	√
80101	25	1"	40	33	10	0.027	√	√	√	√	√
80102	32	1-¼"	50	45	10	0.045	√	√	√	√	√
80103	40	1-½"	59	56	18	0.091	√	√	√	√	√
80104	50	2"	72	57	15	0.141	√	√	√	√	√
80105	65	2-½"	87	70	22	0.263	√	√	√	√	√
80106	80	3"	105	76	24	0.400	√	√	√	√	√

CPVC Pipe & Threaded Fittings

CPVC Fittings

Reducing Tee

Sizes	DN20 x DN25 x DN20 thru DN80 x DN65 x DN80 (¾" x 1" x ¾" thru 3" x 2-½" x 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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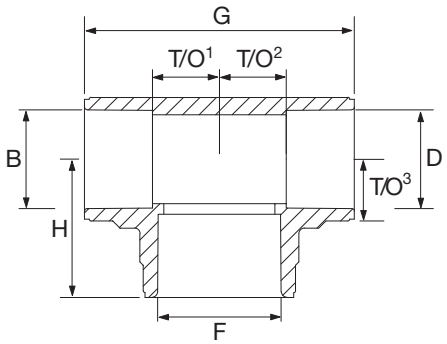

CPVC Reducing Tee, Slip x Slip x Slip

Part No.	Size						G mm	H mm	T/O¹ mm	T/O² mm	T/O³ mm	Weight kg	Approval Listings				
	DN			In.													
	B	F	D	B	F	D							LPCB	FM	UL	MEA	NSF
80132	20	25	20	¾"	1"	¾"	73	38	18	18	15	0.063	√	√	√	√	√
80133	25	20	20	1"	¾"	¾"	71	38	15	15	19	0.063	√	√	√	√	√
80134	25	25	20	1"	1"	¾"	78	41	19	18	18	0.077	√	√	√	√	√
80260	25	20	25	1"	¾"	1"	79	40	15	15	20	0.073	√	√	√	√	√
80135	32	20	25	1-¼"	¾"	1"	85	43	16	15	24	0.095	√	√	√	√	√
80136	32	25	25	1-¼"	1"	1"	84	45	19	19	23	0.100	√	√	√	√	√
80137	32	32	25	1-¼"	1-¼"	1"	92	46	23	23	22	0.118	√	√	√	√	√
80261	32	20	32	1-¼"	¾"	1-¼"	82	43	16	16	23	0.104	√	√	√	√	√
80262	32	25	32	1-¼"	1"	1-¼"	89	46	19	19	23	0.118	√	√	√	√	√
80138	32	40	32	1-¼"	1-½"	1-¼"	119	63	26	26	26	0.195	√	√	√	√	√
80140	40	20	32	1-½"	¾"	1-¼"	100	53	15	15	26	0.163	√	√	√	√	√
80141	40	25	32	1-½"	1"	1-¼"	100	57	15	15	27	0.172	√	√	√	√	√
80263	40	20	40	1-½"	¾"	1-½"	103	53	15	15	24	0.163	√	√	√	√	√
80264	40	25	40	1-½"	1"	1-½"	103	58	15	15	27	0.172	√	√	√	√	√
80275	40	32	40	1-½"	1-¼"	1-½"	118	59	22	22	26	0.204	√	√	√	√	√
80265	50	20	50	2"	¾"	2"	116	62	19	19	35	0.277	√	√	√	√	√
80266	50	25	50	2"	1"	2"	123	66	22	22	35	0.299	√	√	√	√	√
80274	50	32	50	2"	1-¼"	2"	132	69	26	26	36	0.336	√	√	√	√	√
80267	50	40	50	2"	1-½"	2"	137	71	29	29	35	0.354	√	√	√	√	√
80271	65	25	65	2-½"	1"	2-½"	171	70	39	39	39	0.649	√	√	√	√	√
80272	65	32	65	2-½"	1-¼"	2-½"	171	73	39	39	40	0.662	√	√	√	√	√
80273	65	40	65	2-½"	1-½"	2-½"	171	75	39	39	39	0.671	√	√	√	√	√
80276	65	50	65	2-½"	2"	2-½"	171	80	39	39	40	0.680	√	√	√	√	√
80270	80	40	80	3"	1-½"	3"	191	83	46	46	46	1.034		√	√	√	√
80268	80	50	80	3"	2"	3"	191	85	46	46	46	1.021		√	√	√	√
80269	80	65	80	3"	2-½"	3"	191	92	46	46	46	1.107		√	√	√	√

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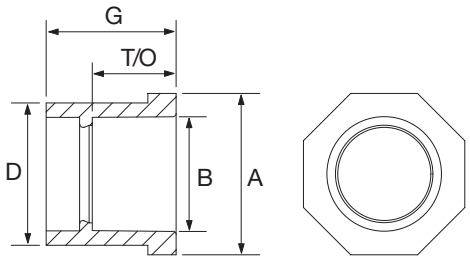
CPVC Fittings

Bush Reducing, Spigot x Slip

Sizes	DN20 x DN25 thru DN80 x DN65 (¾" x 1" thru 3" x 2-½")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC Bush Reducing, Spigot x Slip													
Part No.	Size				A mm	G mm	T/O mm	Weight kg	Approval Listings				
	DN		In.						LPCB	FM	UL	MEA	NSF
	D	B	D	B									
80200	25	20	1"	¾"	38	30	11	0.018	√	√	√	√	√
80201	32	20	1-¼"	¾"	47	32	12	0.050	√	√	√	√	√
80202	32	25	1-¼"	1"	47	32	8	0.054	√	√	√	√	√
80203	40	20	1-½"	¾"	53	42	15	0.072	√	√	√	√	√
80204	40	25	1-½"	1"	53	42	12	0.063	√	√	√	√	√
80205	40	32	1-½"	1-¼"	53	42	9	0.077	√	√	√	√	√
80206	50	20	2"	¾"	66	47	20	0.122	√	√	√	√	√
80207	50	25	2"	1"	66	47	17	0.118	√	√	√	√	√
80208	50	32	2"	1-¼"	66	47	14	0.109	√	√	√	√	√
80209	50	40	2"	1-½"	66	47	11	0.086	√	√	√	√	√
80215	65	25	2-½"	1"	79	54	24	0.190	√	√	√	√	√
80214	65	32	2-½"	1-¼"	79	54	20	0.204	√	√	√	√	√
80213	65	40	2-½"	1-½"	79	54	18	0.209	√	√	√	√	√
80211	65	50	2-½"	2"	79	54	15	0.152	√	√	√	√	√
80210	80	50	3"	2"	96	59	20	0.387	√	√	√	√	√
80212	80	65	3"	2-½"	96	59	13	0.213	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

Coupling Adaptor, Slip x Groove

Sizes	DN32 thru DN80 (1-¼" thru 3")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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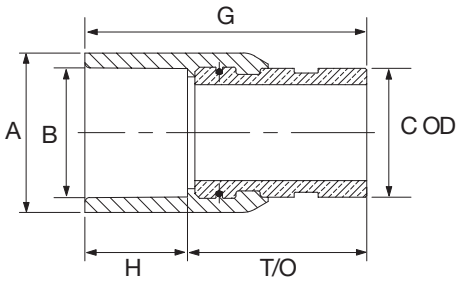

CPVC Coupling Adaptor, Slip x Groove														
Part No.	Size				A mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	DN		In.							LPCB	FM	UL	MEA	NSF
	D	B	D	B										
80160	32	1-¼"	32	42.2	52	93	34	59	0.354	√	√	√	√	√
80161	40	1-½"	40	48.3	59	95	37	58	0.431	√	√	√	√	√
80162	50	2"	50	60.3	72	98	40	58	0.644	√	√	√	√	√
80163	65	2-½"	65	73.0	87	107	49	58	1.034	√	√	√	√	√
80169	65	2-½"	65	76.1	91	107	49	58	1.155	√	√	√	√	√
80164	80	3"	80	88.9	105	110	52	58	1.361	√	√	√	√	√

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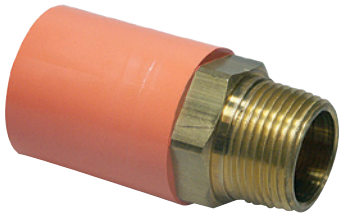
CPVC Fittings

Male Threaded Adaptor, Slip x Male Thread



Sizes	DN20 thru DN25 (¾" thru 1")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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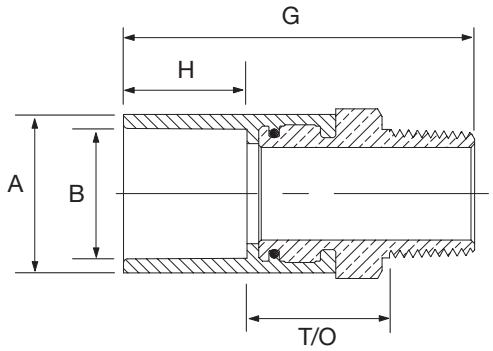

CPVC Male Threaded Adaptor, Slip x Male Thread														
Part No.	Size				A mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	DN		In.							LPCB	FM	UL	MEA	NSF
	D	B	D	B										
80157	20	¾"	20	¾" NPT	33	72	25	33	0.15	√	√	√	√	√
80158	25	1"	25	1" NPT	40	84	32	35	0.254	√	√	√	√	√
82005	25	1"	25	1" BSP	40	84	32	35	0.254	√	√	√	√	√

CPVC Pipe & Threaded Fittings

CPVC Fittings

Female Threaded Adaptor, Slip x Female Thread

Sizes	DN20 thru DN50 (¾" thru 2")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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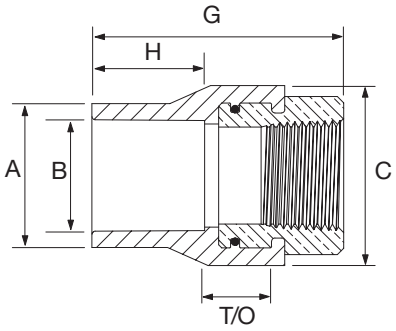

CPVC Female Threaded Adaptor, Slip x Female Thread															
Part No.	Size				A mm	C mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	B Nominal		D Threaded												
	DN	In.	DN	In.							LPCB	FM	UL	MEA	NSF
80142	20	¾"	20	¾" NPT	35	43	61	27	21	0.186	√	√	√	√	√
80145	25	1"	25	1" NPT	43	52	69	30	23	0.286	√	√	√	√	√
80146	32	1-¼"	32	1-¼" NPT	52	61	79	34	28	0.467	√	√	√	√	√
80147	40	1-½"	40	1-½" NPT	59	67	87	36	34	0.644	√	√	√	√	√
80148	50	2"	50	2" NPT	72	88	100	40	43	1.207	√	√	√	√	√
82001	25	1"	25	1" BSP	43	52	69	30	23	0.286	√	√	√	√	√
82002	32	1-¼"	32	1-¼" BSP	52	61	79	34	28	0.467	√	√	√	√	√
82003	40	1-½"	40	1-½" BSP	59	67	87	36	34	0.644	√	√	√	√	√
82004	50	2"	50	2" BSP	72	88	100	40	43	1.207	√	√	√	√	√

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CPVC Fittings

Sprinkler Head Adaptor, Slip x Female Thread, Type E

Sizes	DN20 x DN15 & DN25 x DN15 (¾" x ½" & 1" x ½")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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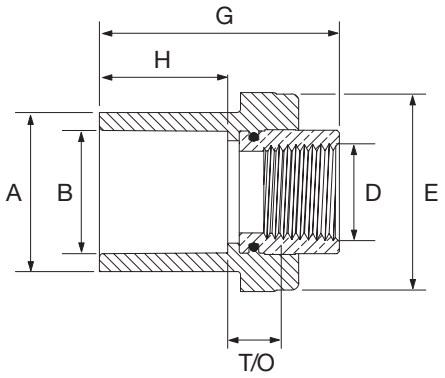

CPVC Sprinkler Head Adaptor, Slip x Female Thread, Type E															
Part No.	Size				A mm	C mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	B Nominal		D Threaded								LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.											
80175E	20	¾"	15	½" NPT	35	43	52	28	12	0.091	√	√	√	√	√
80176E	25	1"	15	½" NPT	43	43	56	31	12	0.1	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

Sprinkler Head Adaptor, Slip x Female Thread, Type W

Sizes	DN20 x DN15 & DN25 x DN15 (¾" x ½" & 1" x ½")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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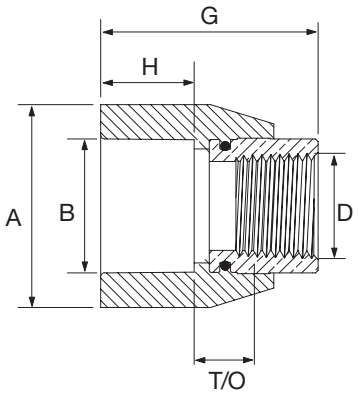

CPVC Sprinkler Head Adaptor, Slip x Female Thread, Type W														
Part No.	Size				A mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	B Nominal		D Threaded							LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.										
80175W	20	¾"	15	½"	41	44	19	12	0.086	√	√	√	√	√
80176W	25	1"	15	½"	40	49	25	12	0.082	√	√	√	√	√

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CPVC Fittings

Sprinkler Head Adaptor, Slip x Female Thread, Type WL

Sizes	DN20 x DN15 & DN25 x DN20 (¾" x ½" & 1" x ¾")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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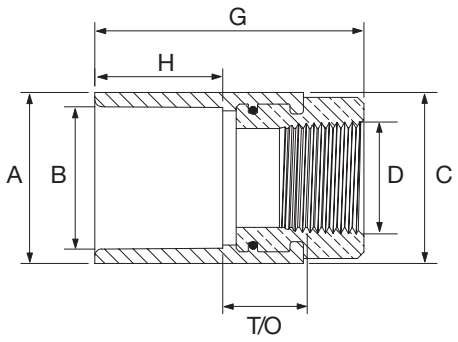

CPVC Sprinkler Head Adaptor, Slip x Female Thread, Type WL															
Part No.	Size				A mm	C mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	B Nominal		D Threaded								LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.											
80175WL	20	¾"	15	½" NPT	33	33	44	20	11	0.073	√	√	√	√	√
80179	25	1"	20	¾" NPT	43	43	64	30	11	0.195	√	√	√	√	√

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CPVC Pipe & Threaded Fittings

CPVC Fittings

Sprinkler Head Adaptor, Spigot x Female Thread

Sizes	DN20 x DN15 thru DN25 x DN20 (¾" x ½" thru 1" x ¾")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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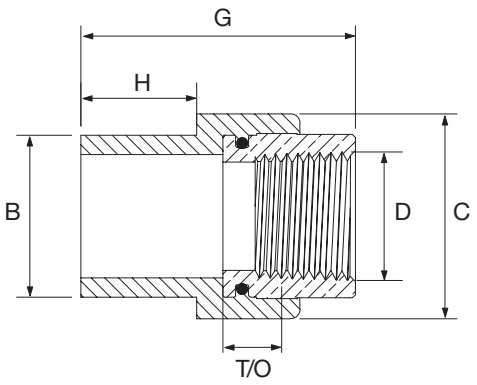

CPVC Sprinkler Head Adaptor, Spigot x Female Thread														
Part No.	Size				C mm	G mm	H mm	T/O mm	Weight kg	Approval Listings				
	B Nominal		D Threaded							LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.										
80177L	20	¾"	15	½" NPT	34	45	19	13	0.073	√	√	√	√	√
80178	25	1"	15	½" NPT	43	49	22	14	0.091	√	√	√	√	√
80178X	25	1"	15	½" NPT Extended	43	58	31	16	0.090	√	√	√	√	√
80180	25	1"	20	¾" NPT	43	57	22	22	0.180	√	√	√	√	√

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CPVC Fittings

Sprinkler Head Tee, Slip x Female Thread x Slip

Sizes	DN20 x DN15 x DN20 thru DN50 x DN15 x DN50 (¾" x ½" x ¾" thru 2" x ½" x 2")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

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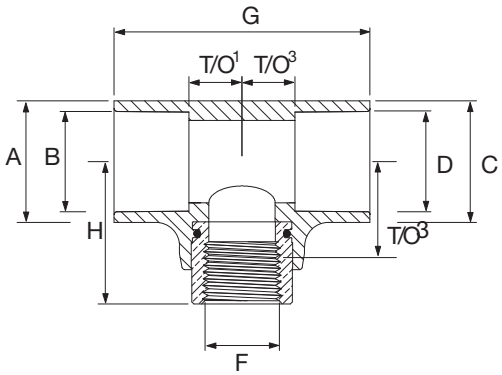


CPVC Sprinkler Head Tee, Slip x Female Thread x Slip

Part No.	Size						A mm	C mm	G mm	H mm	T/O1 mm	T/O2 mm	T/O3 mm	Weight kg	Approval Listings				
	DN			In.											LPCB	FM	UL	MEA	NSF
	B	F	D	B	F	D													
80250	20	15	20	¾"	½" NPT	¾"	33	33	69	38	14	14	25	0.100	√	√	√	√	√
80251	25	15	25	1"	½" NPT	1"	40	40	83	46	18	18	36	0.131	√	√	√	√	√
80252	32	15	32	1-¼"	½" NPT	1-¼"	50	50	76	46	11	11	33	0.141	√	√	√	√	√
80256	32	15	25	1-¼"	½" NPT	1"	50	40	76	46	11	14	33	0.136	√	√	√	√	√
80249	25	25	25	1"	1" NPT	1"	40	40	93	56	23	23	40	0.331	√	√	√	√	√
80259 *	25	25	25	1"	1" NPT	1"	42	42	94	36	23	23	22	0.320	√	√	√	√	√
80257	40	15	40	1-½"	½" NPT	1-¼"	59	52	98	49	12	17	36	0.195	√	√	√	√	√
80254	40	15	40	1-½"	½" NPT	1-½"	59	59	98	49	12	12	36	0.209	√	√	√	√	√
80258	50	15	50	2"	½" NPT	1-½"	72	59	104	55	12	16	43	0.254	√	√	√	√	√
80253	50	15	50	2"	½" NPT	2"	72	72	104	55	13	13	42	0.281	√	√	√	√	√

* Used for Dry Sprinklers

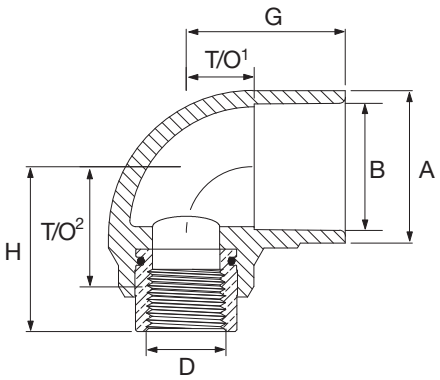
CPVC Pipe & Threaded Fittings

CPVC Fittings

Sprinkler Head Adaptor, 90° Elbow, Slip x Female Thread

Sizes	DN20 x DN15 thru DN25 x DN20 (¾" x ½" thru 1" x ¾")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC Sprinkler Head Adaptor 90° Elbow, Slip x Female Thread															
Part No.	Size				A mm	G mm	H mm	T/O¹ mm	T/O² mm	Weight kg	Approval Listings				
	B Nominal		D Threaded								LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.											
80199	20	¾"	15	½" NPT	33	35	38	14	25	0.091	√	√	√	√	√
80198	25	1"	15	½" NPT	40	40	44	18	31	0.118	√	√	√	√	√
80196	25	1"	20	¾" NPT	45	51	49	27	37	0.120	√	√	√	√	√

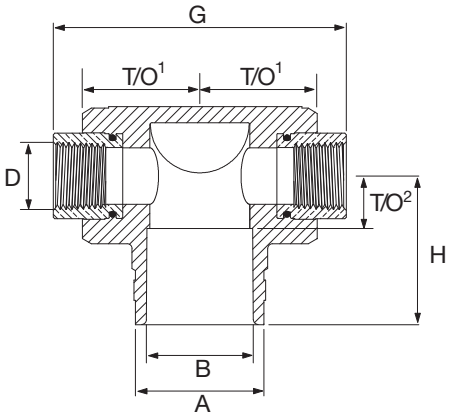
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Fittings

Back-to-Back Sprinkler Head Tee, Slip x Female Thread x Female Thread

Sizes	DN25 DN15 (1" x ½")
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



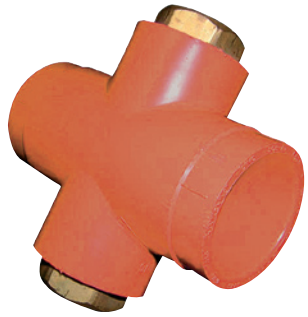
CPVC Back-to-Back Sprinkler Head Tee, Slip x Female Thread x Female Thread																	
Part No.	Size					A mm	G mm	H mm	T/O¹ mm	T/O² mm	Weight kg	Dry Wall Size	Approval Listings				
	B Nominal		D Threaded		Take-Out								LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.													
80459	25	1"	15	½" NPT	92mm (3-⅝")	40	92	47	34	17	0.218	⅝"	√	√	√	√	√
80460	25	1"	15	½" NPT	86mm (3-⅜")	40	85	47	30	17	0.209	½"	√	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Pipe & Threaded Fittings

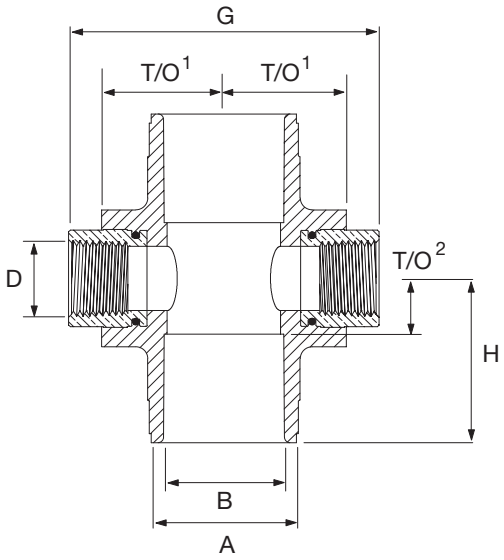
CPVC Fittings

Back-to-Back Sprinkler Head Cross, Slip x Female Thread



Sizes	DN25 x DN15 (1" x 1/2")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC Back-to-Back Sprinkler Head Cross, Slip x Female Thread																	
Part No.	Size					A mm	G mm	H mm	T/O1 mm	T/O2 mm	Weight kg	Dry Wall Size	Approval Listings				
	B Nominal		D Threaded		Take-Out								LPCB	FM	UL	MEA	NSF
	DN	In.	DN	In.													
80462	25	1"	15	1/2" NPT	86mm (3-3/8")	40	86	45.5	30	15	0.209	1/2"	√	√	√	√	√
80463	25	1"	15	1/2" NPT	92mm (3-5/8")	40	93	45.5	34	15	0.213	5/8"	√	√	√	√	√

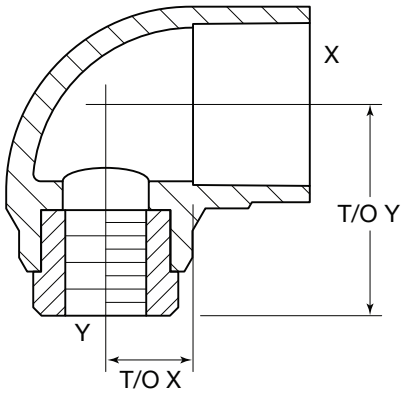
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Fittings

Raven Studio Sprinkler Adapter 90° Elbow

Sizes	DN25 (1")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC Raven Studio Sprinkler Adapter 90° Elbow												
Part No.	Size			Nominal Take-Out		Pipe Schd.	Weight kg	Approval Listings				
	X Nominal		Y Threaded	X	Y			LPCB	FM	UL	MEA	NSF
	DN	In.										
82198	25	1"	ISO 228 G3/8	19mm (3/4")	44,5mm (1-3/4")	40	0.12	√	√	√	√	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

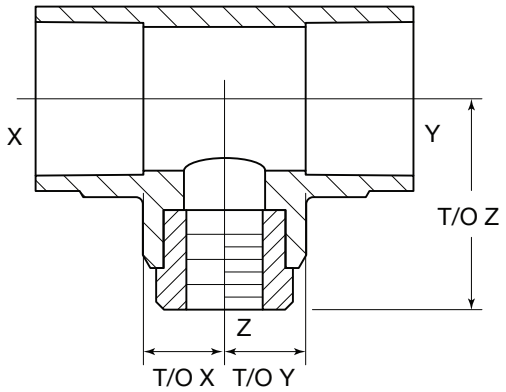
CPVC Pipe & Threaded Fittings

CPVC Fittings

Raven Studio Sprinkler Adapter Tee

Sizes	DN25 (1")
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials.



CPVC Raven Studio Sprinkler Adapter Tee													
Part No.	Size			Nominal Take-Out			Pipe Schd.	Weight kg	Approval Listings				
	X & Y Nominal		Z Threaded	X	Y	Z			LPCB	FM	UL	MEA	NSF
	DN	In.											
82251	25	1″	ISO 228 G3/8	17,4mm (0.687")	17,4mm (0.687")	41,3mm (1.625")	40	0.13	√	√	√	√	√

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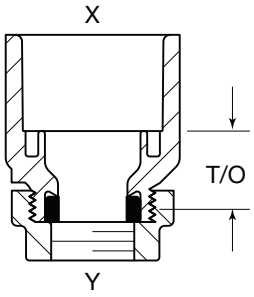
CPVC

Rapid Seal Adapter (RSA), Adapter Slip x Female Thread

Sizes	DN20 x DN15 & DN25 x DN15 (¾" x ½" & 1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor, Slip x Female Thread											
Part No.	Size				T/O mm	Weight kg	Approval Listings				
	X Nominal		Y Threaded				NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.							
80175RS2 *	20	¾"	15	½" NPS	16.8	0.041	√	√	√	√	√
80176RS2	25	1"	15	½" NPS	19,8	0.049	√	√	√	√	√
* Part Number 80175RS is used for both the Rapid Seal Adapter and the Rapid Seal Adapter Spigot as it is a dual purpose fitting and can be used in two different applications.											

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

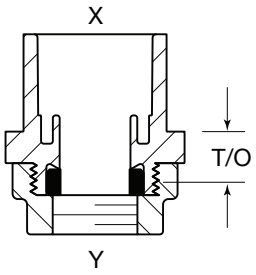
CPVC Pipe & Threaded Fittings

CPVC

Rapid Seal Adapter (RSA), Adapter Spigot x Female Thread

Sizes	DN25 x DN15 (1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor, Spigot x Female Thread											
Part No.	Size				T/O mm	Weight kg	Approval Listings				
	X Nominal		Y Threaded				NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.							
80177RS2	20	¾"	15	½" NPS	9,1	0.028	√	√	√	√	√
80175RS2 *	25	1"	15	½" NPS	13,0	0.041	√	√	√	√	√

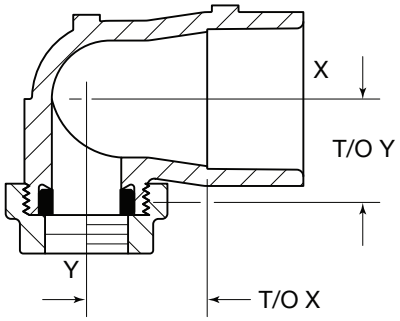
* Part Number 80175RS is used for both the Rapid Seal Adapter and the Rapid Seal Adapter Spigot as it is a dual purpose fitting and can be used in two different applications.

CPVC

Rapid Seal Adapter (RSA) 90° Elbow, Slip x Female Thread

Sizes	DN20 x DN15 & DN25 x DN15 (¾" x ½" & 1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor, 90° Elbow, Slip x Female Thread												
Part No.	Size				T/O X mm	T/O Y mm	Weight kg	Approval Listings				
	X Nominal		Y Threaded					NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.								
80199RS2	20	¾"	15	½"NPT	14,8	23,4	0.045	√	√	√	√	√
80198RS2	25	1"	15	½"NPT	28,7	25,7	0.067	√	√	√	√	√

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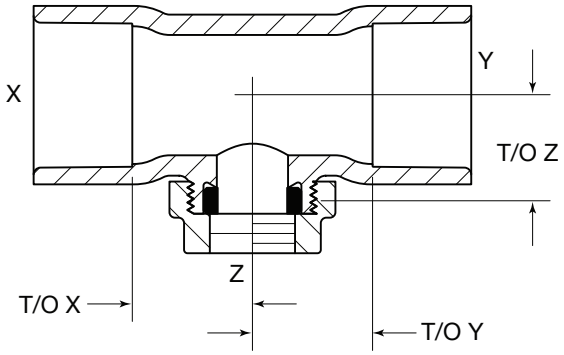
CPVC Pipe & Threaded Fittings

CPVC

Rapid Seal Adapter (RSA), Adapter Tee, Slip x Female Thread

Sizes	DN20 x DN15 & DN25 x DN15 (¾" x ½" & 1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor Tee, Slip x Female Thread												
Part No.	Size				T/O X & Y mm	T/O Z mm	Weight kg	Approval Listings				
	X & Y Nominal		Z Threaded					NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.								
80250RS2	20	¾"	15	½"NPT	9,7	23,4	0.049	√	√	√	√	√
80251RS2	25	1"	15	½"NPT	27,9	25,7	0.093	√	√	√	√	√

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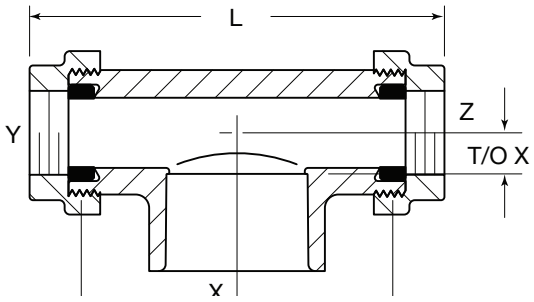
CPVC

Rapid Seal Adapter (RSA), Adapter Back to Back Tee, Slip x Female Thread

Sizes	DN25 x DN15 (1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor, Back to Back Tee, Slip x Female Thread													
Part No.	Size				L mm	T/O X mm	T/O Y & Z mm	Weight kg	Approval Listings				
	X Nominal		Y & Z Threaded						NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.									
80460RS2	25	1"	15	½"NPT	85,7	9,7	34,7	0,086	√	√	√	√	√
80459RS2	25	1"	15	½"NPT	92,1	9,7	37,9	0,091	√	√	√	√	√

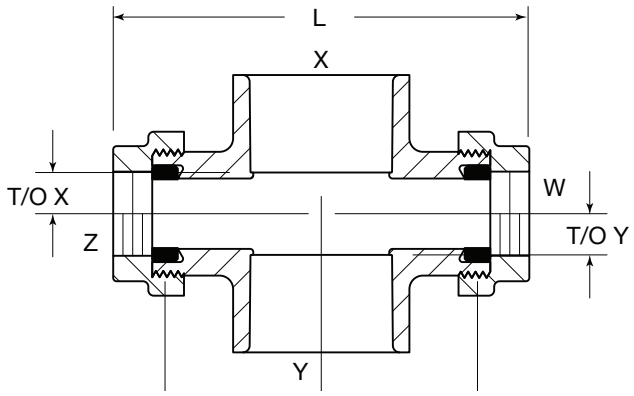
CPVC Pipe & Threaded Fittings

CPVC

Rapid Seal Adapter (RSA), Cross, Slip x Female Thread

Sizes	DN25 x DN15 (1" x ½")
Pipe Thread Connection	½" NPS
Approvals	UL, C-UL Listed & FM Approved, LPCB Certified NSF-pw Certified
Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot, Tee, Back to Back Tee, Cross



CPVC Rapid Seal Adaptor, Cross, Slip x Female Thread													
Part No.	Size				L mm	T/O X mm	T/O Y & Z mm	Weight kg	Approval Listings				
	X Nominal		Y & Z Threaded						NSF-pw	LPCB	FM	UL	VdS
	DN	In.	DN	In.									
80462RS2	25	1"	15	½"NPT	85,7	9,7	34,7	0,094	√	√	√	√	√
80463RS2	25	1"	15	½"NPT	92,1	9,7	37,9	0,098	√	√	√	√	√

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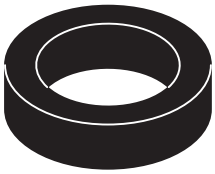
CPVC

Rapid Seal Adapter (RSA) Accessories

Rated Pressure	12,1 bar (175 psi)
Maximum Temperature Rating	65°C (150°F).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

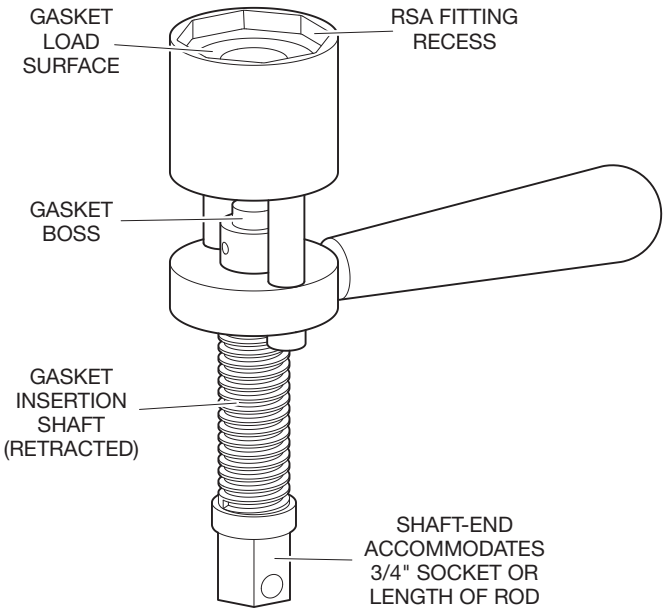
Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation.

Gasket Removal Pick



Gaskets

Gasket Replacement Tool

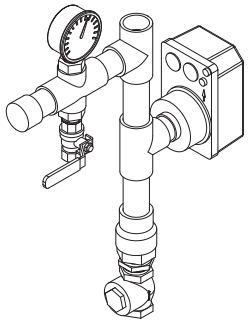


CPVC Rapid Seal Adaptor Accessories		
Part No.	Description	Weight kg
3060	Rapid Seal Gasket Replacement Tool	-
3061	Rapid Seal Gasket Removal Pick	-
3062	Rapid Seal Replacement Gasket (Qty 10)	-

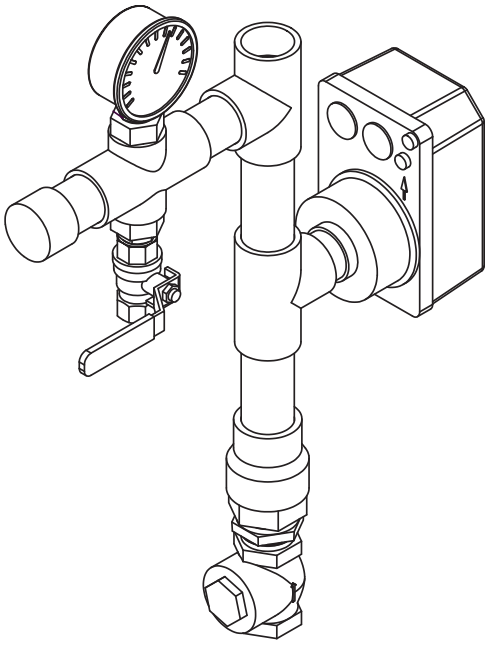
CPVC Pipe & Threaded Fittings

CPVC Riser

Residential



Size Range	DN25 thru DN50 (1" thru 2")
System	For use in residential sprinkler systems
End Connection	CPVC
Tech Data Sheet	**Contact Tyco for details**



CPVC RESIDENTIAL RISER					
Part No	DN		Drain	Weight kg	Approval & Listings UL
RR025CPVC	25	1″ BSP	¾″	2.0	√
RR032CPVC	32	1-¼″ BSP	1″	2.1	√
RR040CPVC	40	1-½″ BSP	1″	2.4	√
RR050CPVC	50	2″ BSP	1″	2.5	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC

CPVC Flow Switches - VSR-SFG

Run Sizes	DN25, DN32, DN40, DN50
Pipe Connection	DN25 (1")
Approvals	UL
Max Pressure	12,1 bar (175 psi)
Min. Flow	38 L/Min.
IP Rating	IP 56
Maximum Temperature Rating	4° - 49°C (39° - 120°F).
Contacts	2 x SPDT [C] / 15 A - 125/250 VAC / 2 A - 30 VDC
Tech Data Sheet	**Installation Handbook - IH-1900**

CPVC Flow Switches							
Part No.	Retard Setting					Weight kg	Approval Listings
	A	B	C	D	E		UL
21000480	10-25	20-40	35-55	50-70	60-90	1.3	√

CPVC Pipe & Threaded Fittings

CPVC

CPVC Cement

Tech Data Sheet

TFP-600 One Step Solvent Cement (TFP1994) and CPVC Installation Handbook (IH-1900)

One-Step CPVC Cement specifically formulated for use with BlazeMaster® pipe and fittings ■ BLAZEMASTER Caulk and Walk® Firestop

CPVC Cement	
Part No.	Description
90766INT	TFP600 CPVC CEMENT INTL PT
90767INT	TFP600 CPVC CEMENT INTL QT

CPVC Dauber

Tech Data Sheet

CPVC Installation Handbook (IH-1900)

CPVC Dauber		
Part No.	Description	Weight kg
90400	Dauber 1-½" Diameter for Pipe Sizes 1" to 3"	0.011
90401	Dauber ¾" Diameter for Pipe Sizes ¾" to 1-¼"	0.008

CPVC Pipe Cutter Tool - TC2QPVC

Tech Data Sheet

CPVC Installation Handbook (IH-1900)

CPVC Pipe Cutter Tool - TC2QPVC		
Part No.	Description	Weight kg
90355	Pipe Cutter Model TC2QPVC with wheel for CPVC Pipe, Diameters DN20 to DN80	1.1
90356	Replacement Cutter Wheel Model 3-6PVC for Model TC3qPVC Pipe Cutter	0.01

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC

CPVC Deburring Tools, DEB2 & DEB4

DEB2

DEB4

Tech Data Sheet

CPVC Installation Handbook (IH-1900)

CPVC Deburring Tools, DEB2 & DEB4		
Part No.	Description	Weight kg
91346	Deburring Tool for Inner and Outer edges of Pipes, for Pipe Sizes up to DN50	1.1
90357	Deburring Tool for Inner and Outer edges of Pipes, for Pipe Sizes DN32 up to DN80	0.01

CPVC Test Plugs

Tech Data Sheet

CPVC Installation Handbook (IH-1900)

CPVC Test Plugs					
Part No.	Size		Description	Colour	Weight kg
	DN	in			
902700	15	½"	Test Plug, Brass thread ½" for Sprinkler Fittings	white	0.115
902701	20	¾"	Test Plug, Brass thread ¾" for Sprinkler Fittings	white	0.125

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC Pipe & Threaded Fittings

CPVC

CPVC Thread Sealant

Tech Data Sheet

CPVC Installation Handbook (IH-1900)

CPVC Thread Sealant			
Part No.	Package Size	Description	Weight kg
90505	5 ltr.	5 Litre Can Antifreeze for CPVC Systems, USP Grade [96.5%]	0.4

CPVC Caulk & Walk®

Tech Data Sheet

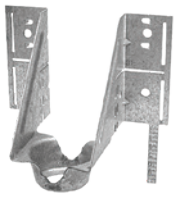
CPVC Installation Handbook (IH-1900)

CPVC Caulk & Walk®				
Part No.	Size	Description	Weight kg	Approval Listings UL
61126	0.3 ltr, Tube	Caulk & Walk Fire Stopping Sealant	0.4	√

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

CPVC

CPVC Model SHB1 Head Set Hangers



Sizes	¾" thru 1" NPT
Approvals	UL Listed
Material	Galvanized aluminium, 20 gauge
Tech Data Sheet	**TFP1920 and Installation Handbook - IH-1900**

"No Block Hanger" is a two hole strap that eliminates blocking to the beam when hanging CPVC pipe ■ The TYCO CPVC Hanger Head Set Model SHB1 offers a time saving installation method for proper placement of an automatic sprinkler before the ceiling is installed. ■ Positions the face of the pipe 1-½" off the face of the joist ■ Provides vertical restraint, eliminating need for additional hangers

CPVC Model SHB1 Head Set Hanger				
Part No.	Works with Sprinkler Head Adapters	Description	Weight kg	Approval Listings UL
HS2	80175W, 80176W	Model SHB1 Head Set Hanger	0.12	√

MLC-S Sprinkler Pipe and Fittings for Concrete Ceilings

Multi-Layer Composite Pipe System Sprinkler

- For use in Wet Systems on Supply and Distribution Lines That Are Fully Embedded in Concrete
- Easy, Quick, and Clean Process -- no Welding, Soldering, Thread-cutting or Gluing
- Inseparable, Permanently Tight Press Joint
- VdS-Approved Pipe System for the Installation of Pipe Conduits in Sprinkler Ceilings per VdS

MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

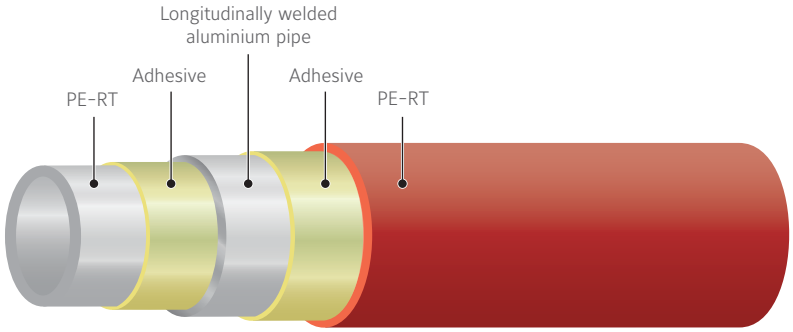
MLC-S Pipe

MLC-S Sprinkler Pipe

Sizes	32 x 3 and 50 x 4.5 (DN25 & DN40)
Pipe Length	50m Coils or 5m Straight lengths
Approvals	VdS approval no. G 4060066.
Maximum Operating Pressure	10 bar (145 psi)
Maximum Temperature Rating	-10° - 40°C (14° - 104°F)
Colour	Bright red in colour as conforming to RAL 3000
Tech Data Sheet	**Contact Tyco for details**

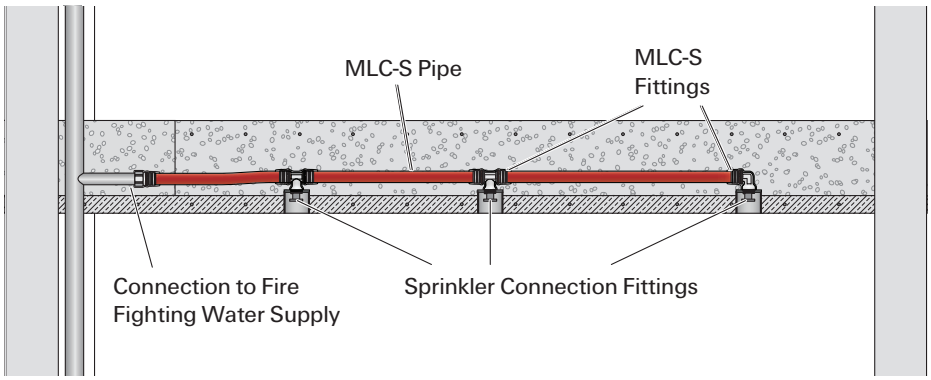
100% oxygen diffusion tight multi-layer composite pipe (PE-RT – adhesive – overlapping longitudinally welded aluminium – adhesive – PE-RT) for the installation of pipelines (cold drinking water) as part of the sprinkler ceiling installation according to VdS approval no. G 4060066.

Structure of the Tyco MLCP-S sprinkler pipe



MLC-S Sprinkler Pipe							
Part No.	Dimension d_a x s [mm]	Nominal Size	D_i Inside Diameter	Unit Length	Weight per coil or rod	Weight per Meter	Approval & Listings VdS
735320	32 x 3 red in Coils	DN25	26mm	50 m	16.2	0.323	√
1045982	50 x 4.5 red in Lengths	DN40	41mm	5 m	3.72	0.745	√

MLC-S Sprinkler System



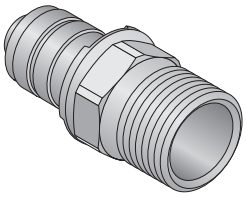
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

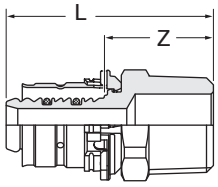
MLC-S Press Fittings

Male Press Connection

Sizes	32 x 1"MT and 50 x 1-1/2" MT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and pressing jaw stop. ■ For the connection of the sprinkler ceiling to the extinguishing water supply system according to VdS approval no. G 4060066. ■ Male thread according to DIN EN 10226-1 for sealing.



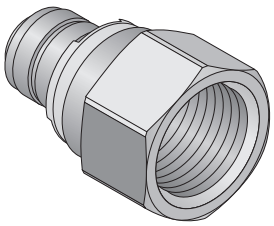


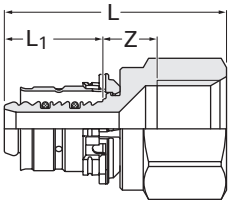
MLC-S Male Press Connection					
Part No.	Dimension	Z mm	L mm	Weight kg	Approval & Listings VdS
980301	32 x 1 MT	34	65	0.184	√
1045988	50 x 1 1/2 MT	42	79	0.511	√

Female Press Connection

Sizes	32 x 1 FT and 50 x 1-½ FT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and pressing jaw stop. ■ For the connection of the sprinkler ceiling to the extinguishing water supply system according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.





MLC-S Female Press Connection						
Part No.	Dimension	Z mm	L mm	L[1] mm	Weight kg	Approval & Listings VdS
980302	32 x 1 FT	11	61	31	0.208	√
1045986	50 x 1-½ FT	14	73	37	0.397	√

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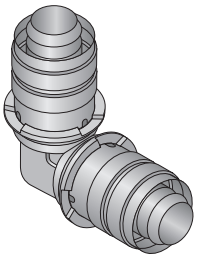
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

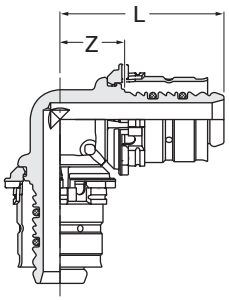
MLC-S Press Fittings

Press Elbow 90°

Sizes	32 x 32 and 50 x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.



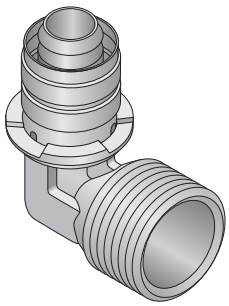


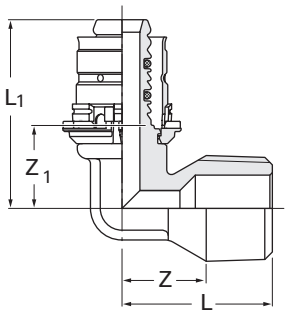
MLC-S Press 90° Elbow					
Part No.	Dimension	Z mm	L mm	Weight kg	Approval & Listings VdS
980303	32 x 32	23	53	0.239	√
1045984	50 x 50	41	78	0.687	√

Press Male 90° Elbow

Sizes	32 x 1 MT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and pressing jaw stop. ■ For the connection of the sprinkler ceiling to the extinguishing water supply system according to VdS approval no. G 4060066. ■ Male thread according to DIN EN 10226-1 for sealing.





MLC-S Press Male 90° Elbow							
Part No.	Dimension	Z mm	Z[1] mm	L mm	L[1] mm	Weight kg	Approval & Listings VdS
980304	32 x 1 MT	26	28	44	58	0.259	√

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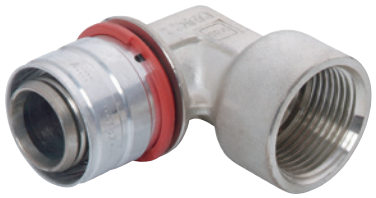
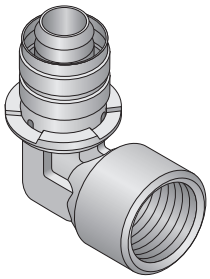
MLC-S Press Fittings

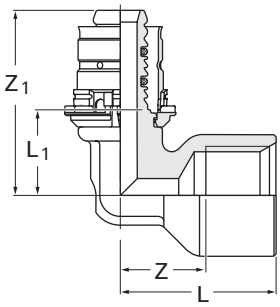
Press Female 90° Elbow



Sizes	32 x 1 FT and 50 x 1-½ FT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

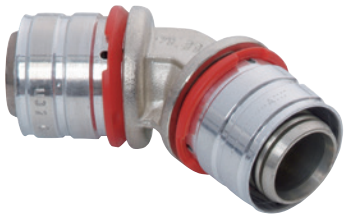
Tin-plated brass, with fixed press sleeve and pressing jaw stop. ■ For the connection of the sprinkler ceiling to the extinguishing water supply system according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.





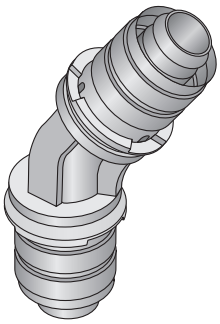
MLC-S Press Female 90° Elbow							
Part No.	Dimension	Z mm	Z_1 mm	L mm	L_1 mm	Weight kg	Approval & Listings VdS
980305	32 x 1 FT	29	28	47	58	0.293	√
1059489	50 x 1-½ FT	38	41	59	81	0.629	√

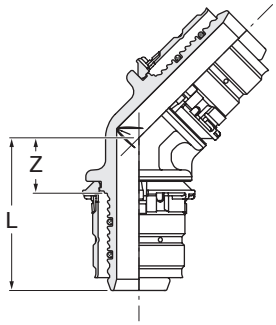
Press 45° Elbow



Sizes	50 x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.





MLC-S Press 45° Elbow					
Part No.	Dimension	Z mm	L mm	Weight kg	Approval & Listings VdS
1045990	50 x 50	25	63	0.556	√

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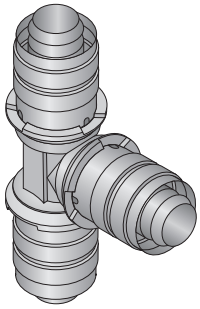
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

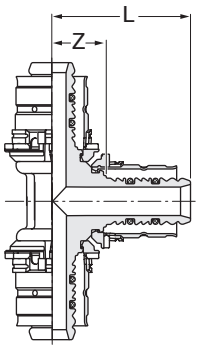
MLC-S Press Fittings

Press Tee

Sizes	32 x 32 x 32 and 50 x 50 x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.



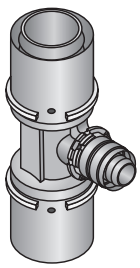


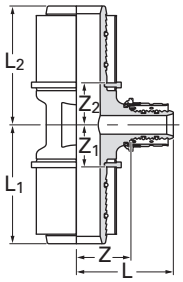
MLC-S Press Tee					
Part No.	Dimension	Z mm	L mm	Weight kg	Approval & Listings VdS
980307	32 x 32 x 32	23	53	0.330	√
1045992	50 x 50 x 50	41	78	0.962	√

Press Tee Reducer

Sizes	50 x 32 x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.





MLC-S Press Tee Reducer									
Part No.	Dimension	Z mm	Z_1 mm	Z_2 mm	L mm	L_1 mm	L_2 mm	Weight kg	Approval & Listings VdS
1045994	50 x 32 x 50	35	27	27	65	64	64	0.685	√

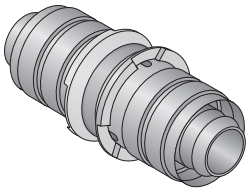
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

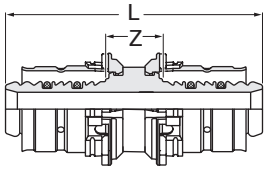
MLC-S Press Fittings

Press Coupling

Sizes	32 x 32 and 50 x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.



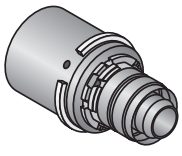


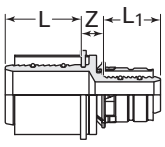
MLC-S Press Coupling					
Part No.	Dimension	Z mm	L mm	Weight kg	Approval & Listings VdS
980308	32 x 32	12	73	0.161	√
1045996	50 x 50	13	88	0.358	√

Press Reducer

Sizes	50 x 32
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeves and pressing jaw stops. ■ For use in the installation of pipes in sprinkler ceilings according to VdS approval no. G 4060066.





MLC-S Press Reducer						
Part No.	Dimension	Z mm	L mm	L_1 mm	Weight kg	Approval & Listings VdS
1045998	50 x 32	13	38	30	0.278	√

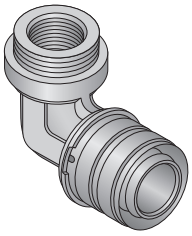
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

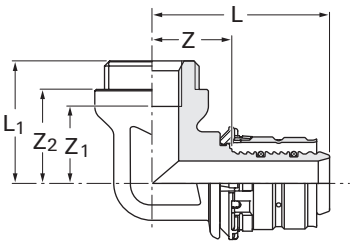
MLC-S Press Fittings

Male/Female Press 90° Elbow

Sizes	32 x 1" MT & ½ FT or 32 x 1" MT & ¾ FT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and red pressing jaw stop. ■ 1 MT male thread for the connection of Tyco sprinkler boxes to the Tyco MLCP-S sprinkler pipes in sprinkler ceilings according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.



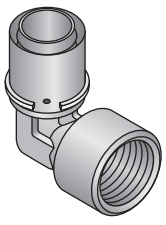


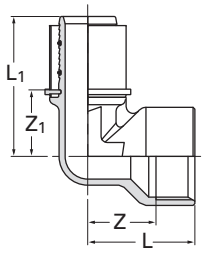
MLC-S Male/Female Press 90° Elbow								
Part No.	Dimension	Z mm	Z_1 mm	Z_2 mm	L mm	L^1 mm	Weight kg	Approval & Listings VdS
986246	32 x 1 MT / ½ FT	25	29	35	56	45	0.340	√
986346	32 x 1 MT / ¾ FT	25	29	35	56	45	0.275	√

Female Press Elbow 90°

Sizes	32 x ¾ FT and 50 x ¾ FT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and red pressing jaw stop. ■ ¾ FT female thread for the connection of Tyco sprinkler boxes to the Tyco MLCP-S sprinkler pipes in sprinkler ceilings according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.





MLC-S Female Press Elbow 90°								
Part No.	Dimension	Z mm	Z_1 mm	L mm	L_1 mm	Weight kg	Approval & Listings VdS
1059146	32 x ¾ FT	31	25	47	56	0.339	√
1059148	50 x ¾ FT	31	41	47	78	0.685	√

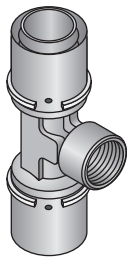
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

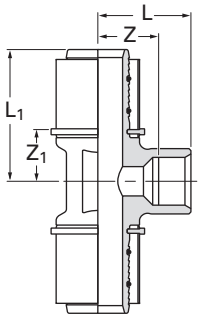
MLC-S Press Fittings

Female Press Sprinkler Tee

Sizes	50 x ¾ FT x 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and red pressing jaw stop. ■ ¾ FT female thread for the connection of Tyco sprinkler boxes to the Tyco MLCP-S sprinkler pipes in sprinkler ceilings according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.



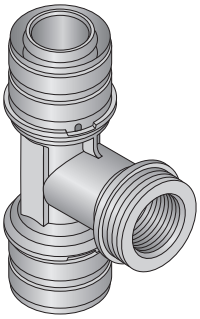


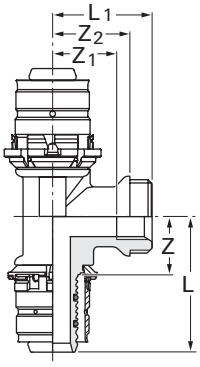
MLC-S Female Press Sprinkler Tee							
Part No.	Dimension	Z mm	Z_1 mm	L mm	L_1 mm	Weight kg	Approval & Listings VdS
1059145	50 x ¾ FT x 50	31	34	-	47	0.710	√

Male/Female Press Sprinkler Tee

Sizes	32 x 1 MT / ½ FT x 32 and 32 x 1 MT / ¾ FT x 32
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve and red pressing jaw stop. ■ 1 MT male thread for the connection of Tyco sprinkler boxes to the Tyco MLCP-S sprinkler pipes in sprinkler ceilings according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.





MLC-S Male/Female Press Sprinkler Tee								
Part No.	Dimension	Z mm	Z_1 mm	Z_2 mm	L mm	L_1 mm	Weight kg	Approval & Listings VdS
986236	32 x 1 MT / ½ FT x 32	26	29	35	56	45	0.370	√
986336	32 x 1 MT / ¾ FT x 32	26	29	35	56	45	0.354	√

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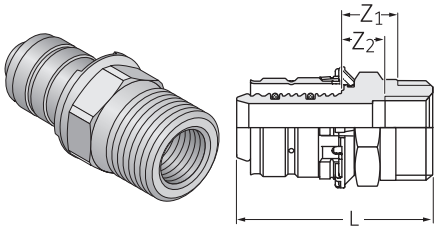
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

MLC-S Press Fittings

Press Connection

Sizes	32 x 1 MT / ½ FT and 32 x 1 MT / ¾ FT
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

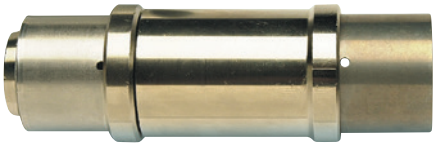
Tin-plated brass, with fixed press sleeve and red pressing jaw stop. ■ 1 MT male thread for the connection of Tyco sprinkler boxes to the Tyco MLCP-S sprinkler pipes in sprinkler ceilings according to VdS approval no. G 4060066. ■ Cylindrical female thread according to DIN EN 10226-1.



MLC-S Press Connection

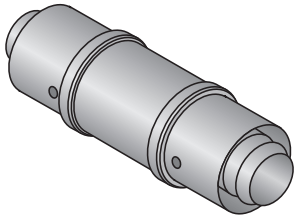
Part No.	Dimension	Z_1 mm	Z_2 mm	L mm	Weight kg	Approval & Listings VdS
986226	32 x 1 MT / ½ FT	17	12	65	0.200	√
986326	32 x 1 MT / ¾ FT	17	12	59	0.164	√

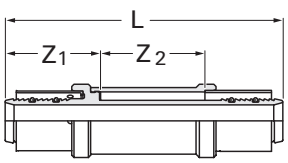
Repair Coupling

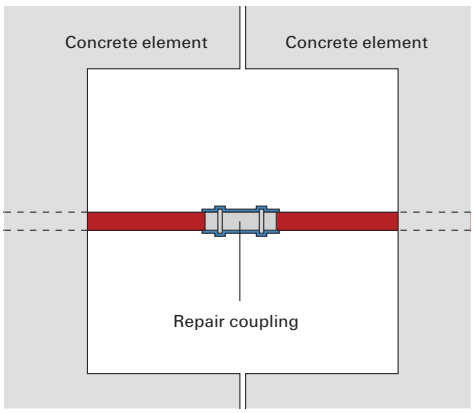


Sizes	32 x 32
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tin-plated brass, with fixed press sleeve. ■ Repair and compensating press fitting with extended inner insert. ■ Adjusting range 48 mm.







MLC-S Repair Coupling

Part No.	Dimension	Z_1 mm	Z_2 mm	L mm	Weight kg	Approval & Listings VdS
946163	32 x 32	43	48	125	0.360	√

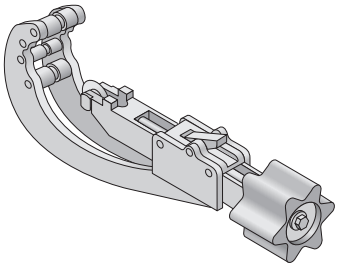
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

MLC-S Tools

Pipe Cuttings Tool 25-63

Sizes	25 - 63mm
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

For Tyco pipes, outside diameter 25 – 63 mm.

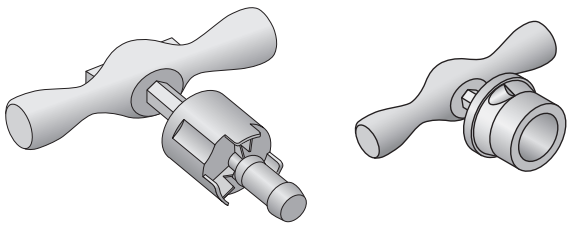


MLC-S Pipe Cutting Tool 25-63			
Part No.	Dimension	Unit	Approval & Listings
			VdS
760005	25-63 mm	1 pc.	√
760011	Spare Cutting Wheel	1 pc.	√

Bevelling Tool

Sizes	32 and 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

For the deburring of Tyco MLC / Tyco Velta PE-Xa pipes. Complete with handle. ■ Suitable for attachment to power drill with max. 500 rpm (remove handle).



MLC-S Bevelling Tool			
Part No.	Size	Unit	Approval & Listings
			VdS
996400	32	1 pc.	√
1015808	50	1 pc.	√

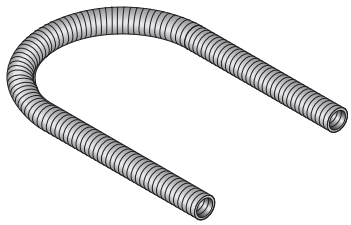
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

MLC-S Tools

Internal Bending Spring

Sizes	32mm
Tech Data Sheet	**Contact Tyco for details**

For Tyco MLC pipes, diameter 14 - 32 mm.

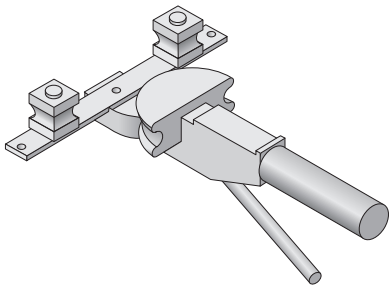


MLC-S Internal Bending Spring		
Part No.	Type	Unit
760032	32	1 pc.

Bending Tool

Sizes	16, 20, 25, 32mm
Tech Data Sheet	**Contact Tyco for details**

For the production of uniform bends in Tyco MLC pipes. Complete with case and bending inserts.



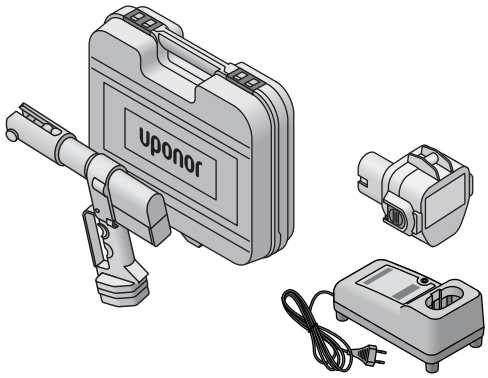
MLC-S Bending Tool		
Part No.	Size	Unit
760532	16, 20, 25, 32	1 pc.

MLC-S Tools

Battery Pressing Tool UP 75

Sizes	14 - 110 mm
Approvals	VdS approval no. G 4060066.
Pressing Force	min. 32 kN
Pressing Time	approx. 7 sec.
Tech Data Sheet	**Contact Tyco for details**

In plastic case, including battery pack and charger. ■ Pressing jaws not included. ■ For dimensions 14 – 110 mm.

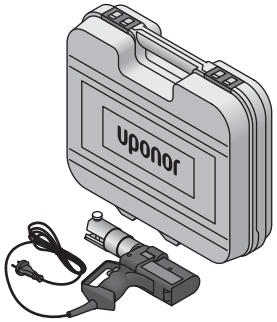


MLC-S Battery Pressing Tool UP 75			
Part No.	Type	Unit	Approval & Listings VdS
990005	UP 75 suitable for 14mm to 110mm pipe supplied without pressing jaw	1 pc.	√
990010	Spare rechargeable battery 12V / 3 Ah NiMH, for Tyco UP 75 battery pressing tool.	1 pc.	
990020	Spare charger unit For Tyco battery of UP 75 and Mini 32 KSP0 pressing tool.	1 pc.	

Electric Pressing Tool UP 75 EL

Sizes	14 - 110 mm
Approvals	VdS approval no. G 4060066.
Pressing Force	min. 32 kN
Pressing Time	approx. 7 sec.
Tech Data Sheet	**Contact Tyco for details**

With plastic case. Pressing jaws not included. ■ For dimensions 14 – 110 mm.



MLC-S Electric Pressing Tool UP 75 EL			
Part No.	Type	Unit	Approval & Listings VdS
1007082	uP 75 eL suitable for 14mm to 110mm pipe supplied without pressing jaw	1 pc.	√

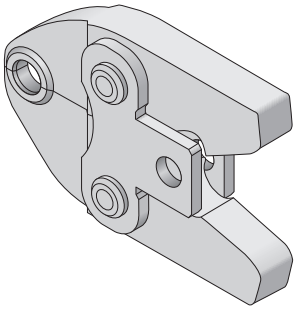
MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

MLC-S Tools

Pressing Jaw MLC

Sizes	32 and 50
Approvals	VdS approval no. G 4060066.
Tech Data Sheet	**Contact Tyco for details**

Tyco MLC KSP0 pressing jaws for Tyco MLC press fittings

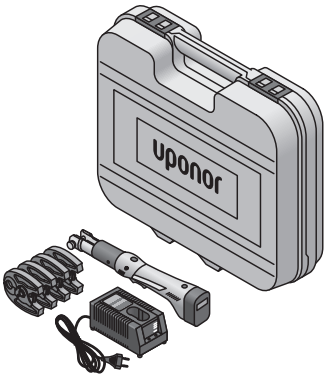


MLC-S Pressing Jaw MLC				
Part No.	Dimension	Type	Unit	Approval & Listings
				VdS
1007088	32	MLC KSPO	1 pc.	√
1015792	50	MLC (UPP1)	1 pc.	√

Battery Pressing Tool Mini 32

Sizes	14 to 32mm
Pressing Force	min. 15 kN (linear)
Pressing Time	approx. 4 sec.
Tech Data Sheet	**Contact Tyco for details**

In plastic case, including battery, charger and pressing jaws for dimensions 16 / 20 / 25 / 32. ■ Suitable for dimensions 14 – 32mm.



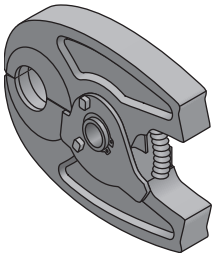
MLC-S Battery Pressing Tool Mini 32		
Part No.	Type	Unit
1083586	Mini 32 suitable for 14mm to 32mm pipe supplied with pressing jaw	1 pc.
990066	Replacement battery Mini	1 pc.

MLC-S Tools

Pressing Jaw MLC Mini KSPO

Sizes	32mm
Tech Data Sheet	**Contact Tyco for details**

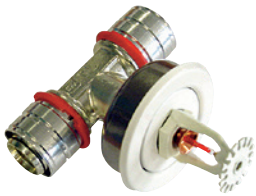
Tyco MLC Mini KSP0 pressing jaws for Tyco MLC press fittings 32 mm.



MLC-S Pressing Jaw MLC Mini KSPO		
Part No.	Type	Unit
1007095	32	1 pc.

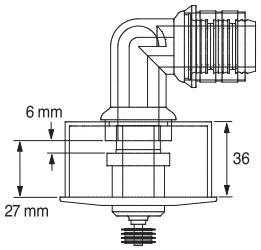
Universal Casting Cup for Sprinklers in Concrete Floors

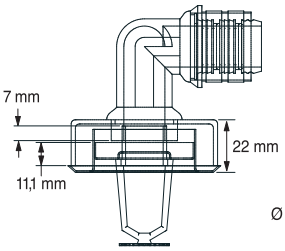
Universal Casting Cup

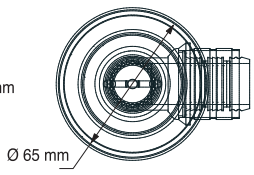


Sizes	1" ISO
Tech Data Sheet	**Contact Tyco for details**

This Stainless Steel Cup is used in conjuction with the LFII recessed or flush pendent sprinkler. Fixing this cup can be done with the Metal Plate shown below. This is a non-re-useable cup. ■ The Stainless Steel Metal Plate is mounted between the Metal Cup and the Sprinkler fitting. This assembly can be fixed to the timber with nails.







MLC-S Universal Casting Cup		
Part No.	Dimension	Description
METALCAP6	1" ISO	To be used with Tyco Flush Pendent Sprinklers ½" & ¾ NPT
METALCAP7	1" ISO	To be used with Tyco Recessed Pendent Sprinklers ½" & ¾ NPT
PD0222	for 1" Fittings	Metal Plate is used to fix the Stainless Steel Cups

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

MLC-S Sprinkler Pipe & Fittings for Concrete Ceilings

Universal Casting Cup for Sprinklers in Concrete Floors

Installation Cup, Plug, & Cap

Sizes	1" ISO
Tech Data Sheet	**Contact Tyco for details**

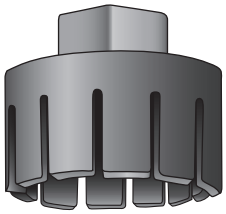
The Installation Cup is used in conjunction with the FSC (Flush Sprinkler for Concrete). ■ The corresponding plug is used for fixing (with nails) the position of the cup. For more information on the usage of the Installation Cup see TFP645. ■ The Installation Cup is re-useable. The plug is also available separately (PN 913131004).

MLC-S Installation Cup, Plug and Cap					
Part No.	Dimension	H	Ø	Type	Qty
913131110	¾" ISO, Ø 70mm, h = 56mm	65	70	32	1
1013423-1	An End Cap can be used to avoid concrete splashes	29	32	-	1
PLASTLOKKM7	The Plastic Plug for Metalcap 6 and 7. Must be used in combination with Plattendekke	29	32	-	1

Removal Tool

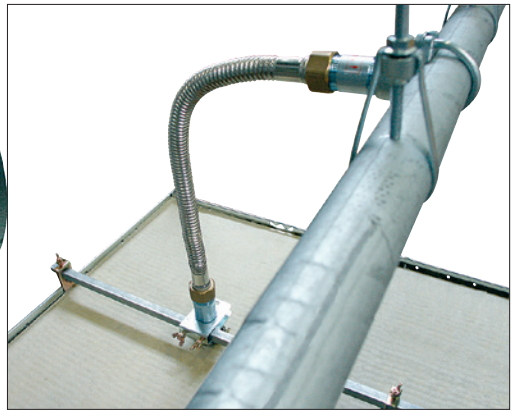
Sizes	27mm Wrench
Tech Data Sheet	**Contact Tyco for details**

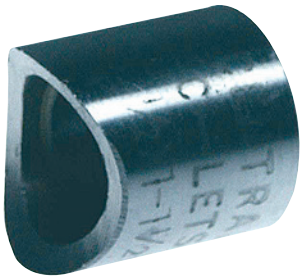
The Removal Wrench is used for removing the Installation Cup. The tool can be used in combination with a ½" Socket Drive or a 27mm Wrench.



MLC-S Removal Tool				
Part No.	Dimension	H	Ø	Qty
560004301	27mm (½") Socket	44	55	1

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.



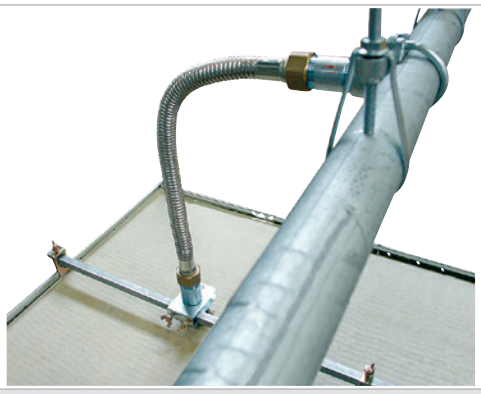


Flexible Hose, Welding Outlets and Threaded Fittings

Flexible Hose

FASTFLEX

Flexible Sprinkler Hose Assembly



Sizes	700 – 1800 mm lengths
Approvals	UL Listed & FM & VdS & LPCB Approved
Max. Pressure	UL: 12.1 bar; FM: 12 bar; LPCB/VdS: 16 bar
Tech Data Sheet	**TFP720**

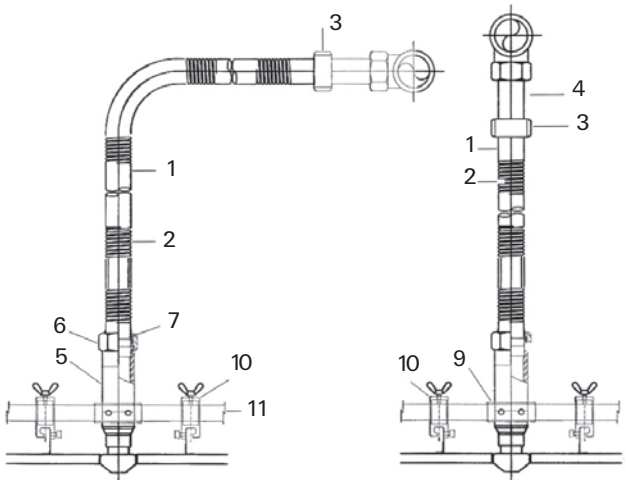
The TYCO FASTFLEX Flexible Sprinkler Hose is a unique sprinkler drop assembly comprised of a branchline adapter nipple, stainless steel flexible hose with two slip nuts, sprinkler reducer, and lightweight ceiling bracket components.

FASTFLEX Model YN25, YB25, and YB28 – Flexible Sprinkler Hose Assembly											
Part Number	Type	Hose Length	Internal Ø	Weight kg	Approval & Listings						
					UL	FM	VdS	LPCB	APSAD	Ukrainian	CSTB
YN250700	Unbraided	700	25	1	√	–	–	√	√	√	√
YN251000	Unbraided	1000	25	1.1	√	–	–	√	√	√	√
YN251200	Unbraided	1200	25	1.16	√	–	–	√	√	√	√
YN251500	Unbraided	1500	25	1.23	√	–	–	√	√	√	√
YN251800	Unbraided	1800	25	1.3	√	–	–	√	√	√	√
YB280700	Braided	700	28	1.24	√	–	√	–	√	√	√
YB281000	Braided	1000	28	1.38	√	–	√	–	√	√	√
YB281200	Braided	1200	28	1.48	√	–	√	–	√	√	√
YB281500	Braided	1500	28	1.58	√	–	√	–	√	√	√
YB281800	Braided	1800	28	1.7	√	–	√	–	√	√	√
YB28700-F	Braided	700	28	1.28	√	√	–	–	–	√	√
YB281000-F	Braided	1000	28	1.45	√	√	–	–	–	√	√
YB281200-F	Braided	1200	28	1.6	√	√	–	–	–	√	√
YB281500-F	Braided	1500	28	1.78	√	√	–	–	–	√	√
YB281800-F	Braided	1800	28	1.9	√	√	–	–	–	√	√

Parts List			
Item No.	Description	Material	Quantity
1	Flexible Tube	SS AISI 304	1
2	Weaver	SS AISI 304	1
3	Braid Ring	Mild Steel	2
4	Nipple	Mild Steel	1
5*	Sprinkler Reducer	Mild Steel	1
6	Slip Nut	Brass	1
7	O-Ring	NBR/CR	2
8	Washer	Nylon W6	2
9	Bracket	Pressed Steel	1
10*	Clamps	Pressed Steel	2
11	Support Bar	Pressed Steel	1

*Note part 5: Sprinkler Reducer is straight, ½" NPT thread. Elbows 45° or 90° and ¾" NPT Connections available on request.

*Note part 10: Standard Clamp to be used for Recessed Sprinklers. Special Clamp for Concealed Sprinklers available on request.



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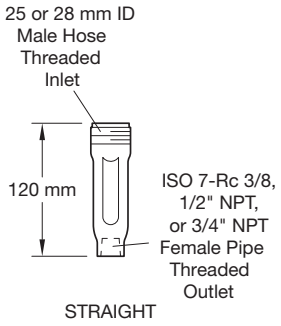
FASTFLEX SPRINKLER ACCESSORIES

Sprinkler Reducers

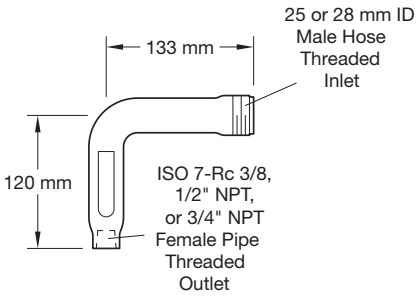
Sizes	1/2" NPT, 3/4" NPT and ISO 7-Rc-3/8
Tech Data Sheet	TFP720

Sprinkler Reducers - 1/2" NPT Outlet - Parts List (Straight, 45 Degree, or 90 Degree)			
Part Number	Description	Inlet Hose Ø [mm]	Outlet
RBAR45	45°-Elbow Reducer Mild Steel	25	1/2" NPT Female
RB28AR45	45°-Elbow Reducer Mild Steel	28	1/2" NPT Female
RBAR90	90°-Elbow Reducer Mild Steel	25	1/2" NPT Female
RBAR90S	90°-Elbow Reducer Short Special Brass	25	1/2" NPT Female
RB28AR90	90°-Elbow Reducer Mild Steel	28	1/2" NPT Female
RBR120	Straight Reducer Mild Steel	25	1/2" NPT Female
RBR28120	Straight Reducer Mild Steel	28	1/2" NPT Female



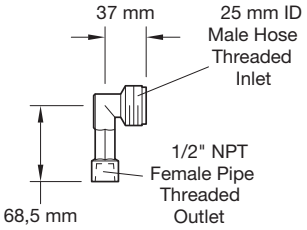
STRAIGHT

Sprinkler Reducers - 3/4" NPT Outlet - Parts List (Straight, 45 Degree, or 90 Degree)			
Part Number	Description	Inlet Hose Ø [mm]	Outlet
SBAR45	45° - Elbow Reducer Mild Steel	25	3/4" NPT Female
SB28AR45	45° - Elbow Reducer Mild Steel	28	3/4" NPT Female
SBAR90	90° - Elbow Reducer Mild Steel	25	3/4" NPT Female
SBAR90S	90° - Elbow Reducer Short Special Brass	25	3/4" NPT Female
SB28AR90	90° - Elbow Reducer Mild Steel	28	3/4" NPT Female
SBR120	Straight Reducer Mild Steel	25	3/4" NPT Female
SBR28120	Straight Reducer Mild Steel	28	3/4" NPT Female

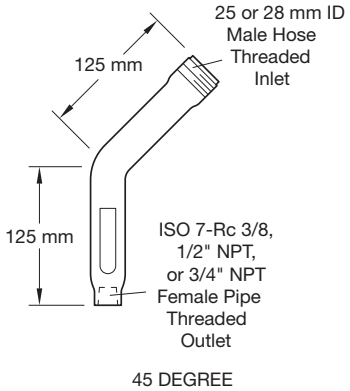


90 DEGREE

Sprinkler Reducers - ISO 7-Rc 3/8 Outlet - Parts List (Straight, 45 Degree, or 90 Degree)			
Part Number	Description	Inlet Hose Ø [mm]	Outlet
PBAR45	45° - Elbow Reducer Mild Steel	25	ISO 7-Rc 3/8
PB28AR45	45° - Elbow Reducer Mild Steel	28	ISO 7-Rc 3/8
PBAR90	90° - Elbow Reducer Mild Steel	25	ISO 7-Rc 3/8
PB28AR90	90° - Elbow Reducer Mild Steel	28	ISO 7-Rc 3/8
PBR120	Straight Reducer Mild Steel	25	ISO 7-Rc 3/8
PBR28120	Straight Reducer Mild Steel	28	ISO 7-Rc 3/8



90 DEGREE SHORT RADIUS
(LPCB APPROVED APPLICATIONS ONLY)



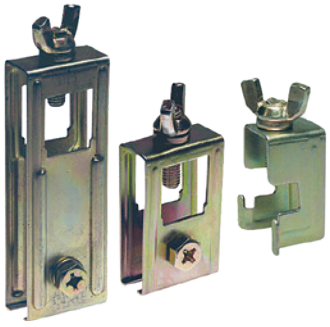
45 DEGREE

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Flexible Hose

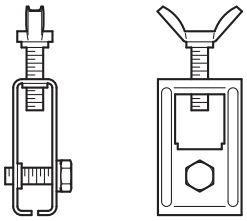
FASTFLEX SPRINKLER ACCESSORIES

Bar Fixing Clamps

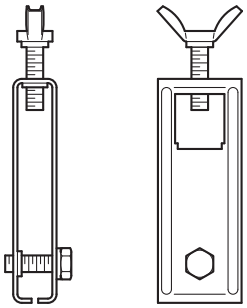


Tech Data Sheet	**TFP720**

Bar Fixing Clamps		
Part Number	Description	Length mm
RBF58T	Bar Fixing Clamp for recessed sprinkler	50
RBF90T	Bar Fixing Clamp for concealed sprinkler	90
RBF38T	Bar Fixing Clamp Special for plasterboard ceilings	38



50 mm



90 mm

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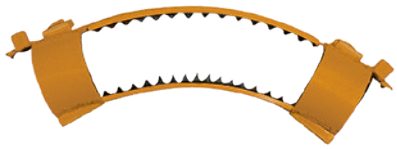
Fastflex Flexible Hose Accessories

NIPPLES

Sizes	25mm x 1" BSP, 25mm x 1-¼" BSP 28mm x 1" BSP, 28mm x 1-¼" BSP
Tech Data Sheet	Contact Tyco for details

NIPPLES - Parts List			
Part Number	Description	Inlet Hose Ø [mm]	Outlet
HOSENIP25	Hose Nipple	25	1" BSP Male
HOSENIP25R	Reduced Hose Nipple	25	1-¼" BSP Male
HOSENIP28	Hose Nipple	28	1" BSP Male
HOSENIP28R	Reduced Hose Nipple	28	1-¼" BSP Male

Minimum Radius Indicator



Sizes	55mm radius
Tech Data Sheet	Contact Tyco for details

Minimum Radius Indicator. Only for hoses with a 25mm diameter	
Part Number	Description
MRI55	Minimum radius indicator plastic clip with radius 55 mm

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Drop Nipples

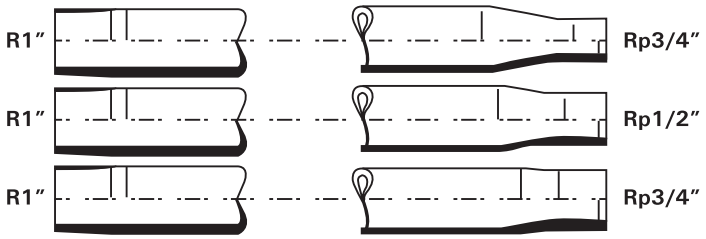
LONGNECK

Reduced Ends Model Longneck

Sizes	DN25 x 3/8" ISO, DN25 x 1/2" NPT, DN25 x 3/4" NPT
Approvals	FM & VdS Approved
Material	Steel pipe S195T according EN 10255-M
Finish	Zinc coated
Max. Pressure	20.7 bar (300psi)
Tech Data Sheet	Contact Tyco for details

Special lengths are available upon request

Reduced Ends Model Longneck							
Part Number	O.D.		Length	Outlets	Weight	Approval & Listings	
	DN	mm	mm	Female	kg	FM	VdS
1412100010	25 [1"]	34	1000	3/8" ISO	2,4	√	√
1412100015	25 [1"]	34	1000	1/2" NPT	2,4	√	√
1412100020	25 [1"]	34	1000	3/4" NPT	2,4	√	√



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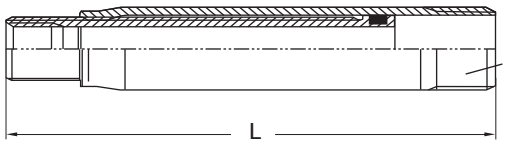
M & F

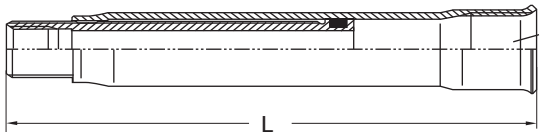
Drop Nipples

Sizes	90mm - 270mm lengths
Approvals	FM & VdS Approved
Material Shaft	Steel pipe ST37
Material "O" Rings	EPDM
Finish	CED coated (black)
Working Temperature	-20°C to 100°C
Max. Pressure	Max. 25 Bar [362 Psi] for Sprinkler systems
Tech Data Sheet	Contact Tyco for details

Special lengths are available upon request

M & F											
Part Number	Inlet Size BSP			Outlet Size NPT Female		Min. L mm	Max. L mm	Adjustment Range mm	Weight kg	Approval & Listings	
	In.	mm	Male/Female	In.	mm					FM	VdS
DROPMF090050	1"	25	M	1/2"	15	90	140	50	0,35	√	√
DROPMF100060	1"	25	M	1/2"	15	100	160	60	0,35	√	√
DROPMF140100	1"	25	M	1/2"	15	140	240	100	0,5	√	√
DROPMF180100	1"	25	M	3/4"	20	180	280	100	0,7	√	√
DROPMF220100	1"	25	M	1/2"	15	220	320	100	0,7	√	√
DROPFF130060	1"	25	F	1/2"	15	130	190	60	0,45	√	√
DROPFF170100	1"	25	F	1/2"	15	170	270	100	0,6	√	√





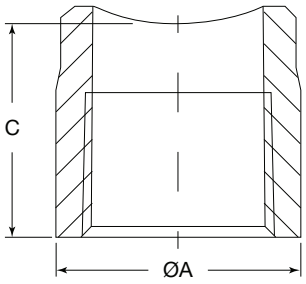
Branch Outlets

TEE-LET THREADED

Branch Outlets Threaded

Sizes	DN15 thru DN65
Approvals	UL Listed & FM Approved
Material	Black Steel to ASTM A106
Tech Data Sheet	Contact Tyco for details

Tee-Let Threaded									
Part Number	Outlet Size Female		Header for Pipe Size		Outlet Length C mm	Inside ØA mm	Weight kg	Approval & Listings	
	DN	In	DN	in				UL	FM
WB12X114NTHR	15	½" NPT	32-40	1-¼" - 1-½"	27.0	27.5	0.07	√	√
WB12X5NTHR			80-200	3"-8"				√	√
WB34X114NTHR	20	3/4" NPT	32-40	1-¼" - 1-½"	28.6	33.8	0.10	√	√
WB34X5NTHR			80-200	3"-8"				√	√
WB1X2THR	25	1" BSP	50	2"	31.7	39.5	0.13	√	√
WB1X212THR			65	2-½"			0.13	√	√
WB1X3THR			80-100	3"-4"			0.11	√	√
WB1X6THR			125-200	5"-8"			0.12	√	√
WB114X112THR	32	1-¼" BSP	40	1-½"	34.9	47.5	0.18	√	√
WB114X2THR			50	2"			0.17	√	√
WB114X3THR			80-100	3"-4"			0.16	√	√
WB114X6THR			125-200	5"-8"			0.16	√	√
WB112X2THR	40	1-½" BSP	50	2"	41.3	55.0	0.29	√	√
WB112X212THR			65	2-½"			0.29	√	√
WB112X3THR			80-100	3"-4"			0.28	√	√
WB112X6THR			125-200	5"-8"			0.27	√	√
WB2X212THR	50	2" BSP	65	2-½"	44.5	69.2	0.51	√	√
WB2X3THR			80	3"			0.49	√	√
WB2X4THR			100	4"			0.47	√	√
WB2X6THR			150	6"			0.46	√	√
WB2X8THR			200	8"			0.45	√	√
WB212X3THR	65	2-½" BSP	80	3"	56.3	81.5	0.87	√	√
WB212X4THR			100	4"			0.84	√	√
WB212X6THR			150	6"			0.82	√	√
WB212X8THR			200	8"			0.80	√	√



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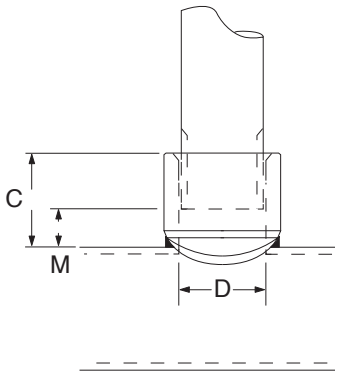
C-Let Threaded

Branch Outlets Non-Chamfered

Sizes	DN15 thru DN65
Approvals	UL Listed & FM Approved
Material	Black Steel to ASTM A-105
Max. Pressure	Max. 20.68 Bar [300 Psi] for Sprinkler systems
Tech Data Sheet	Contact Tyco for details

C-Let Threaded										
Part Number	Outlet Size Female		Header for Pipe Size		Outlet Length C mm	Inside Ø D mm	Make Up M mm	Weight kg	Approval & Listings	
	DN	In	DN	in					UL	FM
CL15025N	15	½" NPT	25-40	1" - 1-½"	25	21	14	0,1	√	√
CL15050N			50-65	2" - 2-½"					√	√
CL15080			80-200	3" - 8"					√	√
CL20025N	20	¾" NPT	25-40	1" - 1-½"	25	25	13	0,1	√	√
CL20050N			50	2"					√	√
CL20065N			65	2-½"					√	√
CL20080			80-125	3" - 5"					√	√
CL20150			150-200	6" - 8"					√	√
CL25032	25	1" BSP	32-40	1-¼" - 1-½"	28	25	12	0,13	√	√
CL25050			50	2"					√	√
CL25065			65	2-½"					√	√
CL25080			80	3"					√	√
CL25100			100-125	4" - 5"					√	√
CL25150			150-200	6" - 8"					√	√
CL32050	32	1-¼" BSP	50	2"	32	41	16	0,19	√	√
CL32065			65	2-½"					√	√
CL32080			80	3"					√	√
CL32100			100-125	4" - 5"					√	√
CL32150			150-200	6" - 8"					√	√
CL40050	40	1-½" BSP	50	2"	32	47	16	0,24	√	√
CL40065			65	2-½"					√	√
CL40080			80	3"					√	√
CL40100			100	4"					√	√
CL40125			125-150	5" - 6"					√	√
CL40200			200	8"					√	√
CL50065	50	2" BSP	65	2-½"	38	59	19	0,38	√	√
CL50080			80	3"					√	√
CL50100			100	4"					√	√
CL50150			150-200	6" - 8"					√	√
CL65100	65	2-½" BSP	100	4"	45	70	21	0,55	√	√
CL65150			150	6"					√	√
CL65200			200	8"					√	√



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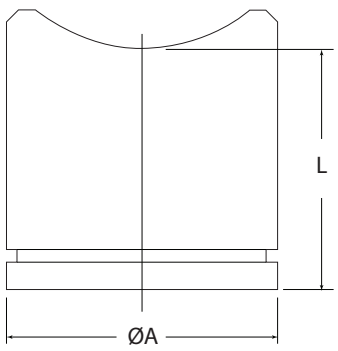
Branch Outlets

WELDING BRANCHLETS GRV

Branch Outlets Grooved

Sizes	DN32 thru DN100
Approvals	UL Listed & FM Approved
Material	Black Steel to ASTM A-53
Tech Data Sheet	Contact Tyco for details

Welding Branchlets Grooved								
Part Number	Grooved Outlet Size		Header for Pipe Size		Outlet Length L mm	Outside ØA mm	Weight kg	Approval & Listings	
	DN	In	DN	in				UL	FM
WB114X2GRV	32	1-¼"	50	2"	75,4	42,2	0,24	√	√
WB114X3GRV			80	3"				√	√
WB114X6GRV			150	6"				√	√
WB112X2GRV	40	1-½"	50	2"	75,4	48,3	0,29	√	√
WB112X212GRV			65	2-½"				√	√
WB112X3GRV			80	3"				√	√
WB112X6GRV			150	6"				√	√
WB2X212GRV	50	2"	65	2-½"	75,4	60,3	0,41	√	√
WB2X3GRV			80	3"				√	√
WB2X4GRV			100	4"				√	√
WB2X6GRV			150	6"				√	√
WB2X8GRV			200	8"				√	√
WB212X212GRV	65	2-½"	65	2-½"	75,4	73,0	0,60		
WB212X3GRV			80	3"				√	√
WB212X4GRV			100	4"				√	√
WB212X6GRV			150	6"				√	√
WB212X8GRV			200	8"				√	√
WB3X3GRV	80	3"	80	3"	75,4	88,9	0,86		
WB3X4GRV			100	4"				√	√
WB3X6GRV			150	6"				√	√
WB3X8GRV			200	8"				√	√
WB4X4GRV	100	4"	100	4"	101,0	114,3	1,73		
WB4X6GRV			150	6"				√	√
WB4X8GRV			200	8"				√	√



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PERMABOND A1058

Pipe Thread Sealant

Sizes	250 ml Tube
Approvals	WRC Approved
Tech Data Sheet	Contact Tyco for details

Permabond A1058 is a highly viscous anaerobic sealant designed for use on threaded metal pipe connections.

The delayed cure allows components to be accurately aligned. Permabond A1058 provides an instant seal and can be applied more easily and faster than PTFE tape or hemp, saving on installation time.

Model Permabond A1058 - Pipe Thread Sealant			
Part Number	Description	Weight kg	Approval & Listings WRC
A105825000	Tube 250 ml	0,3	√
A105825010	Box of 10 x 250 ml	3,0	√

Use Instructions:

Wipe male and female threads with a clean, dry rag to remove any grease and dirt.

Apply A1058 to the full circumference of the male thread to 1 and a half thread forms, ensuring that there is sufficient adhesive to fill the gaps & that it is positioned correctly.

For threaded parts of 4" diameter and above, apply a second bead half inch from the first bead or apply A1058 to both components.

Assemble the joints with tools in the normal way and wipe off any excess from the finished joint.

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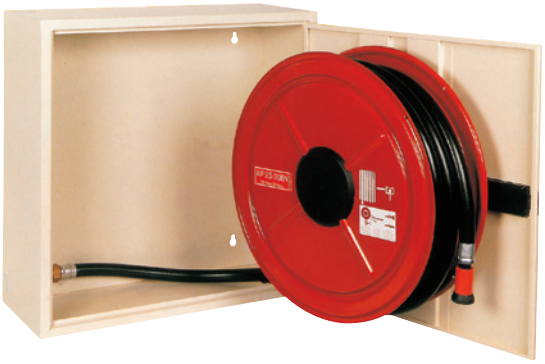
Branch Outlets

Notes



Hoses and Hose Reels

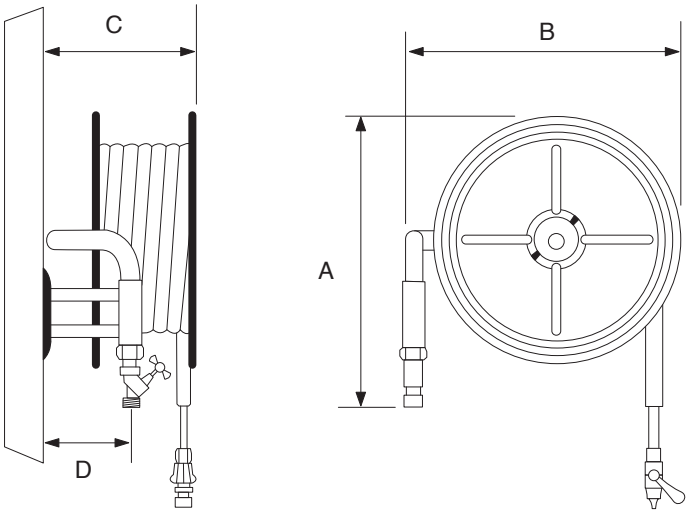
Hose Reels & Cabinets

SWINGING REEL

Swinging Type Hose Reels

Sizes	DN25 thru DN33
Approvals	EN 671-1
Length	20 m thru 30 m
Tech Data Sheet	Contact Tyco for details

Swinging Type Hose Reels								
Part Number	DN	Length	Dimensions mm				Weight kg	Approval & Listings
			A	B	C	D		EN 671-1
NFGTP25/20	25	20 m	685	700	310	1″ F	22	√
NFGTP25/30	25	30 m	685	700	310	1″ F	27	√
NFGTP33/20	33	20 m	710	700	445	1-½″ F	30	√
NFGTP33/30	33	30 m	710	700	445	1-½″ F	38	√



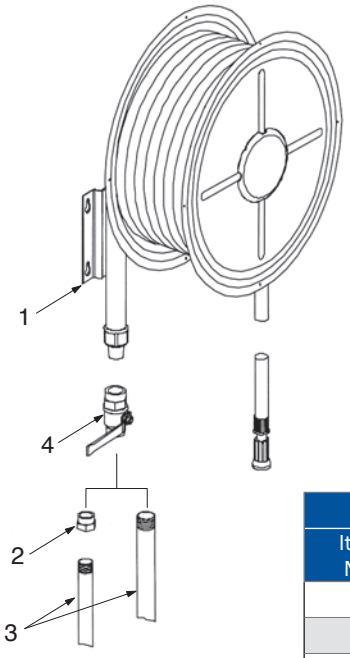
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

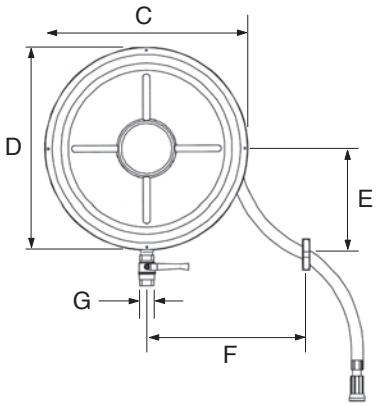
FIXED REEL

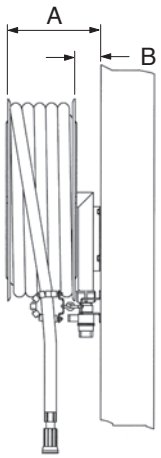
Fixed Reel Hose Reels

Sizes	DN19 thru DN33
Approvals	EN 671-1
Length	20 m thru 30 m
Tech Data Sheet	Contact Tyco for details

Fixed Reel Hose Reels											
Part Number	DN	Length	Dimensions mm							Weight kg	Approval & Listings
			A	B	C	D	E	F	G BSP		EN 671-1
09000340	19	20 m	220	75	570	770	300	450	¾" F	15	√
09000300	19	30 m	220	75	570	770	300	450	¾" F	18	√
09000350	25	20 m	270	75	570	770	300	450	1" F	20	√
09000310	25	30 m	270	75	570	770	300	450	1" F	125	√
09000430	33	20 m	415	100	570	740	300	450	1-½" F	28	√
09000420	33	30 m	415	100	570	740	300	450	1-½" F	36	√





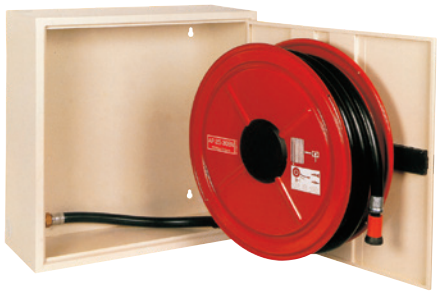


Parts List	
Item No.	Description
1	Hose reel with wall bracket
2	Reduction [DN19 only]
3	Supply Piping
4	Main shut-off valve

Hose Reels & Cabinets

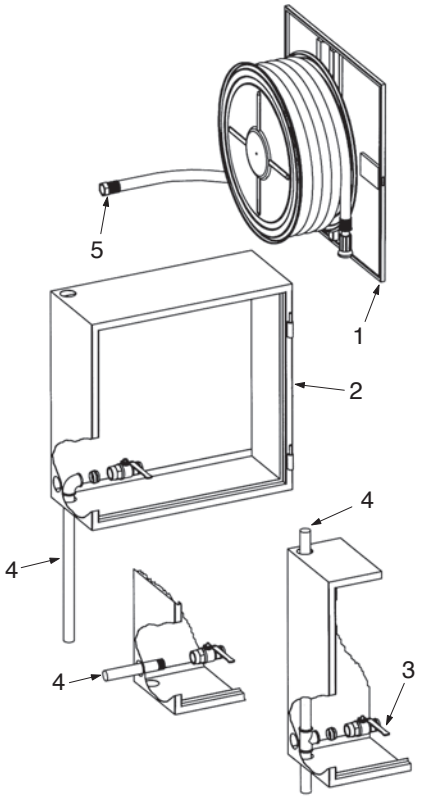
SWINGING REEL IN CABINET

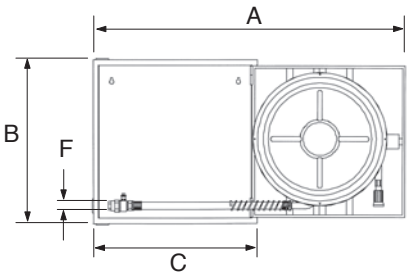
Swinging Reel In Cabinet Hose Reels

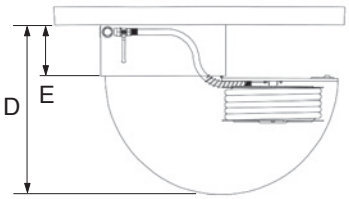


Sizes	DN19 thru DN25
Approvals	EN 671-1
Length	20 m & 30 m
Tech Data Sheet	Contact Tyco for details

Swinging Reel In Cabinet Hose Reels										
Part Number	DN	Length	Dimensions mm						Weight kg	Approval & Listings
			A	B	C	D	E	F BSP		EN 671-1
09000360	19	20 m	1330	710	700	285	945	¾" F	42	√
09000320	19	30 m	1330	710	700	285	945	¾" F	45	√
09000370	25	20 m	1330	710	700	285	945	1" F	48	√
09000330	25	30 m	1330	710	700	285	945	1" F	53	√







Parts List	
Item No.	Description
1	Hose Reel Mounted On Door
2	Cabinet
3	Main Shut-Off Valve
4	System Piping
5	Supply Connection

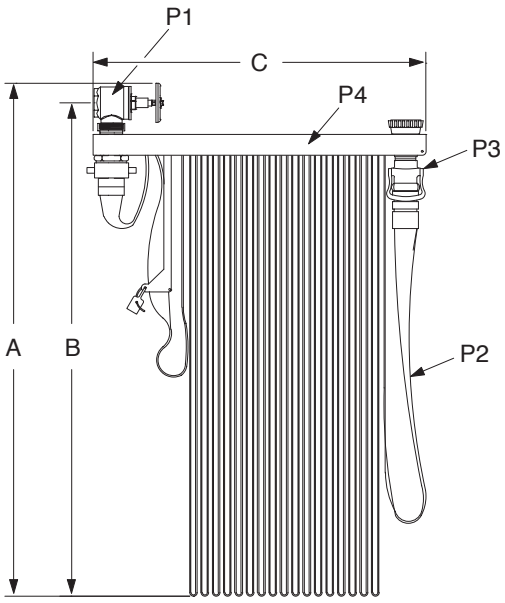
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

SERIES 2500

Hose Rack Assemblies

Approvals	UL Listed & FM Approved
Length	15.2 m thru 30.4 m
Tech Data Sheet	Contact Tyco for details

Series 2500 Hose Rack Assemblies										
Part Number	Hose Length	Valve Size	Ø Hose	Dimensions mm				Weight kg	Approval & Listings	
				A	B	C	D		UL	FM
2505	15.2 m	1-1/2"	1-1/2"	597	558	457	102	7	√	√
2507	22.8 m	1-1/2"	1-1/2"	660	622	457	102	9	√	√
2510	30.4 m	1-1/2"	1-1/2"	787	749	457	102	12	√	√



Parts List	
Item No.	Description
P1	Angle Valve Brass 20.7 Bar
P2	Polyflex Hose 34.5 Bar
P3	Fog nozzle Satin Brass
P4	Hose Rack Red Polyester Coated Steel

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Hose Reels & Cabinets

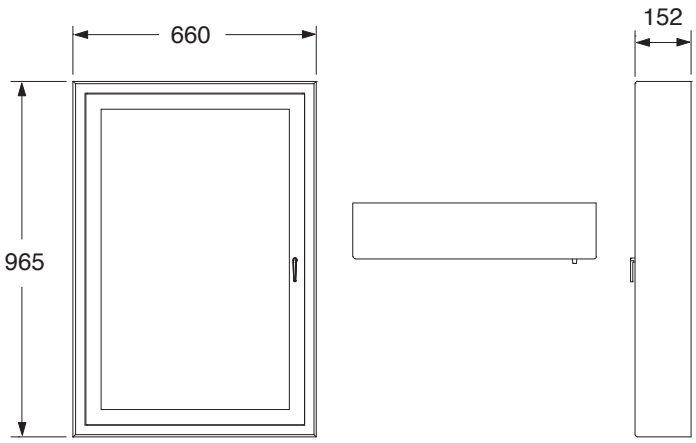
SERIES 1054

Hose Rack Assemblies

Sizes	965 x 660mm
Body	Red Polyester Steel with Full glass Door
Tech Data Sheet	Contact Tyco for details

Other model available on request [recessed/trimless]

SERIES 1054 Hose Rack Assemblies			
Part Number	Wall Mounting	Max. Capacity Hose m	Weight kg
1054-A-MOD	Surface	30.4	27



VIKING HOSE

Hoses

Sizes	DN38 thru DN64
Length	18,3 m thru 30 m
Tech Data Sheet	Contact Tyco for details

All Viking hose products are available with international fire hose couplings in light alloy or gunmetal - POA

Viking Hose						
Part Number	Internal Diameter	Length	Weight *	Max Advised Working Pressure	Average Burst Pressure	Bend Radius
10291	38 mm	23m	280 gr/m	22,5 bar	55 bar	65 cm
10293	38 mm	30m	280 gr/m	22,5 bar	55 bar	65 cm
10296	45 mm	18,3m	340 gr/m	22,5 bar	55 bar	80 cm
10300	45 mm	30m	340 gr/m	22,5 bar	55 bar	80 cm
10303	52 mm	20m	400 gr/m	22,5 bar	55 bar	95 cm
10306	52 mm	30m	400 gr/m	22,5 bar	55 bar	95 cm
10309	64 mm	18,3m	520 gr/m	22,5 bar	50 bar	110 cm
10310	64 mm	20m	520 gr/m	22,5 bar	50 bar	110 cm
10311	64 mm	23m	520 gr/m	22,5 bar	50 bar	110 cm
10312	64 mm	25m	520 gr/m	22,5 bar	50 bar	110 cm
10313	64 mm	30m	520 gr/m	22,5 bar	50 bar	110 cm

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Hoses

SAXON HOSE

Hoses

Sizes	DN38 thru DN65
Length	18,3 m thru 30 m
Tech Data Sheet	Contact Tyco for details

Saxon Hoses					
Part Number	Internal Diameter	Length	Weight * kg	Max Advised Working Pressure	Short Length Burst Pressure
10466	38 mm	20m	180 gr/m	15 bar	45 bar
10470	38 mm	30m	180 gr/m	15 bar	45 bar
10480	45 mm	18,3m	200 gr/m	15 bar	45 bar
10486	45 mm	23m	200 gr/m	15 bar	45 bar
10492	45 mm	30m	200 gr/m	15 bar	45 bar
10501	52 mm	18,3m	220 gr/m	15 bar	45 bar
10502	52 mm	20m	220 gr/m	15 bar	45 bar
10627	52 mm	30m	220 gr/m	15 bar	45 bar
10633	65 mm	18,3m	310 gr/m	15 bar	45 bar
10634	65 mm	20m	310 gr/m	15 bar	45 bar
10635	65 mm	23m	310 gr/m	15 bar	45 bar
10636	65 mm	25m	310 gr/m	15 bar	45 bar
10637	65 mm	30m	310 gr/m	15 bar	45 bar

*Per metre uncoated (± 4%)
** Per metre coated (± 4%)

Grooved Piping Products

Designed for use in fire protection systems.

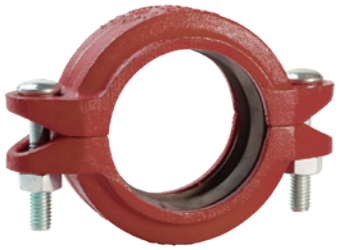
- Reduced Installation Time and Cost
- Wide Variety of Couplings and Fittings to Suite Your Pipe Joining Needs
- Quickly Join Steel Pipe Without Welding
- Dampening Noise & Vibration Transmission

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 577

Rigid Coupling

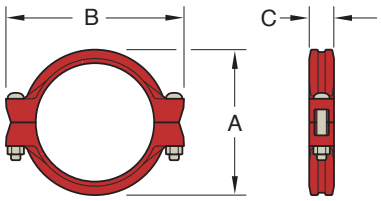


Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	24,1 bar (350 psi)
Grade "A" EPDM Pre-Lubricate Gasket Temperature	-34°C to 66°C (-30°F to 150°F)
Tech Data Sheet	**TFP1854**

For use in fire protection systems, the GRINNELL G-FIRE Figure 577 Grooved Rigid Coupling provides a rigid joint by firmly gripping along the full circumference of the pipe grooves. Figure 577 Grooved Rigid Couplings are a proven dependable method of joining pipe and are an economical alternative to welding, threading, or using flanges. ■ It is capable of pressures up to 24,1 bar (350 psi) depending on pipe size and wall thickness when used in fire protection services. ■ Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications.

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number		Pipe Size		Max.† Pressures Bar	Max.† End Load kN	Max.*‡ End Gap mm	Dimensions - mm			Coupling Bolts Size (Qty 2) mm	Approx. Weight kg
Grade "A" Gasket	Grade "A" Tri-Seal Gasket	Nominal mm	O.D. mm				A	B	C		
577MA0034✖	577AT0034✖	25	33,7	24,1	2,11	1,5	41	100	42	M10 x 57	0.55
577MA0042✖	577AT0042✖	32	42,4	24,1	3,37	1,5	68	112	42	M10 x 57	0.59
577MA0048✖	577AT0048✖	40	48,3	24,1	4,41	1,5	74	118	42	M10 x 57	0.68
577MA0060✖	577AT0060✖	50	60,3	24,1	6,90	1,5	86	132	43	M10 x 57	0.82
577MA0073✖	577AT0073✖	65	73,0	24,1	10,11	1,5	99	143	44	M10 x 57	0.91
577MA0076✖	577AT0076✖	65	76,1	24,1	11,01	1,5	102	147	44	M10 x 57	0.91
577MA0089✖	577AT0089✖	80	88,9	24,1	14,98	1,5	114	161	44	M10 x 57	1.22
577MA0114✖	577AT0114✖	100	114,3	20,7	21,22	1,5	145	191	46	M10 x 57	1.50
577MA0139✖	577AT0139✖	125	139,7	20,7	31,71	3,2	173	222	49	M12 x 76	2.41
577MA0141✖	577AT0141✖	125	141,3	20,7	32,43	3,2	174	224	49	M12 x 76	2.41
577MA0165✖	577AT0165✖	150	165,1	20,7	44,28	3,2	198	248	49	M12 x 76	2.59
577MA0168✖	577AT0168✖	150	168,3	20,7	46,00	3,2	215	251	49	M12 x 76	2.68
577MA0219✖	577AT0219✖	200	219,1	20,7	77,97	3,2	260	325	61	M16 x 83	5.32
577MA0273✖	577AT0273✖	250 ✧	273,0	20,7	121,00	6,4	318	419	65	M20 x 121	8.86
577MA0324✖	577AT0324✖	300 ✧	323,9	20,7	170,00	6,4	368	470	65	M20 x 121	10.00

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, or 5 for painted white (RAL 9010) coating
* Maximum available gap between pipe ends, Minimum gap = 0,
† Maximum Pressure and End Load are total from all loads based on standard weight steel pipe, Pressure ratings and end loads may differ for other pipe materials and/or wall thicknesses, Contact Tyco Technical Services for details,
‡ Max End Gap is for cut grooved standard weight pipe, Values for roll grooved pipe will be half that of cut grooved,
✧ 250mm and 300mm couplings requiring VdS approval, Use GRINNELL Figure #772 Mechanical Coupling
For information on other alternative sizes, contact Tyco Technical Services,
See page 9-6 for gasket information

Figure 705

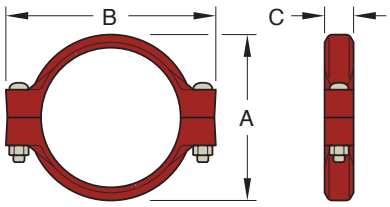
Grooved Flexible Coupling

Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	20,7 bar (300 psi)
Gasket Temperature	**Grade "A" EPDM:** -34°C to 66°C (-30°F to 150°F) **Grade "E" EPDM:** -34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1820**

The GRINNELL G-FIRE Figure 705 Flexible Coupling is capable of pressures up to 20,7 bar (300 psi) depending on pipe size and wall thickness when used in fire protection services. It provides a dependable method of joining pipe and is suitable for use in a variety of applications. ■ Provides the needed flexibility to accommodate differential movement. ■ Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications.

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number		Pipe Size		Max.† Pressure bar	Max.† End Load kN	Max.*‡ End Gap mm	Deflection ‡		Dimensions - mm			Coupling Bolts Size (Qty 2) mm	Approx. Weight kg
Grade "A" EPDM Gasket	Grade "E" EPDM Tri-Seal Gasket	Nominal mm	O.D. mm				Degrees Per Coupling	mm/m	A	B	C		
705MA0034✖	705MT0034✖	25	33,7	20,7	1,81	3,3	5° 30'	96,7	56,9	100,1	46,0	M10 x 57	0.6
705MA0042✖	705MT0042✖	32	42,4	20,7	2,88	3,3	4° 19'	75,0	65,0	106,4	46,0	M10 x 57	0.7
705MA0048✖	705MT0048✖	40	48,3	20,7	3,78	3,3	3° 46'	65,8	69,9	112,8	46,0	M10 x 57	0.7
705MA0060✖	705MT0060✖	50	60,3	20,7	5,90	3,3	3° 1'	52,5	82,6	124,0	47,8	M10 x 57	0.8
705MA0073✖	705MT0073✖	65	73,0	20,7	8,66	3,3	2° 29'	43,3	93,7	139,7	47,8	M10 x 57	0.9
705MA0076✖	705MT0076✖	65	76,1	20,7	9,43	3,3	2° 23'	41,7	101,6	146,10	47,8	M12 x 76	1.4
705MA0089✖	705MT0089✖	80	88,9	20,7	12,83	3,3	2° 3'	35,8	111,3	165,1	47,8	M12 x 76	1.4
705MA0108✖	705MT0108✖	100	108,0	20,7	18,93	6,4	3° 22'	58,3	139,7	190,5	52,3	M12 x 76	1.9
705MA0114✖	705MT0114✖	100	114,3	20,7	21,21	6,4	3° 11'	55,8	144,5	196,9	52,3	M12 x 76	1.8
705MA0133✖	705MT0133✖	125	133,0	20,7	28,88	6,4	2° 44'	46,7	166,6	241,3	52,3	M16 x 83	3.3
705MA0139✖	705MT0139✖	125	139,7	20,7	31,70	6,4	2° 36'	45,5	173,0	247,7	52,3	M16 x 83	3.3
705MA0141✖	705MT0141✖	125	141,3	20,7	32,41	6,4	2° 35'	45,0	174,8	247,7	52,3	M16 x 83	3.2
705MA0159✖	705MT0159✖	150	159,0	20,7	40,93	6,4	2° 17'	40,0	192,0	261,9	52,3	M16 x 83	3.4
705MA0165✖	705MT0165✖	150	165,1	20,7	44,25	6,4	2° 12'	38,3	196,9	271,5	52,3	M16 x 83	3.2
705MA0168✖	705MT0168✖	150	168,3	20,7	45,97	6,4	2° 10'	37,5	201,7	271,5	52,3	M16 x 83	3.2
705MA0219✖	705MT0219✖	200	219,1	20,7	77,92	6,4	1° 40'	29,2	258,8	344,4	63,5	M20 x 121	6.6
705MA0273✖	705MT0273✖	250	273,0	17,2	100,8	6,4	1° 20'	23,3	322,3	416,1	66,8	M24 x 165	12.7
705MA0324✖	705MT0324✖	300	323,9	17,2	141,9	6,4	1° 7'	19,2	379,5	479,6	66,8	M24 x 165	16.6

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, or 5 for painted white RAL9010 coating
* Maximum available gap between pipe ends. Minimum gap = 0.
† Maximum pressure and end load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ for other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.
‡ Max end gap and deflection is for cut grooved standard weight pipe. Values for roll grooved pipe will be half that of cut grooved.
For information on other alternative sizes, contact Tyco Technical Services.
See page 9-6 for gasket information

Grooved Piping Products

Figure 707

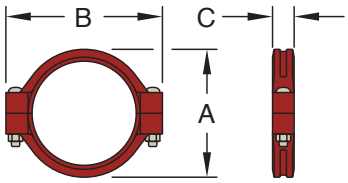
Flexible Coupling

Sizes	DN32 thru DN300 (1-¼" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	34,5 bar (500 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1840**

The GRINNELL 707 Flexible Coupling provides a dependable method of joining pipe and is suitable for use in a variety of applications. ■ Capable of pressures up to 34,5 bar (500 psi) depending on pipe size and wall thickness. ■ Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications.

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.

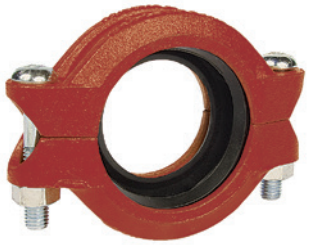


Part Number		Pipe Size		Max.† Pressure Bar	Max.† End Load kN	Max.‡ End Gap mm	Deflection ‡		Dimensions - mm			Coupling Bolts Size (Qty 2) mm	Approx. Weight kg
Grade "E" Gasket	Grade "E" Tri-Seal Gasket	Nominal mm	O.D. mm				Degrees Per Coupling	mm/m	A	B	C		
707ME0042✖	707MT0042✖	32	42,4	20,7	2,89	3,3	4° 19'	75,0	70,0	111,0	46,0	M12 x 76	1.0
707AE0048✖	707AT0048✖	40	48,3	34,5	6,31	3,3	3° 46'	65,8	75,4	117,6	46,0	M12 x 76	1.1
707AE0060✖	707AT0060✖	50	60,3	34,5	9,85	3,3	3° 1'	52,5	89,9	133,4	47,8	M12 x 76	1.4
707AE0073✖	707AT0073✖	65	73,0	34,5	14,4	3,3	2° 29'	43,3	103,1	146,1	47,8	M12 x 76	1.6
707AE0076✖	707AT0076✖	65	76,1	20,7	9,435	3,3	2° 23'	41,7	106,4	146,1	47,8	M12 x 76	1.8
707AE0089✖	707AT0089✖	80	88,9	34,5	21,4	3,3	2° 3'	35,8	119,1	162,1	47,8	M12 x 76	1.8
707AE0114✖	707AT0114✖	100	114,3	34,5	35,4	6,4	3° 11'	55,8	151,1	209,6	52,3	M16 x 83	3.2
707AE0139✖	707AT0139✖	125	139,7	34,5	54,1	6,4	2° 30'	43,6	178,3	254,0	51,8	M20 x 121	3.8
707AE0141✖	707AT0141✖	125	141,3	34,5	54,1	6,4	2° 35'	45,0	179,8	254,0	52,3	M20 x 121	4.5
707AE0165✖	707AT0165✖	150	165,1	20,7	44,3	6,4	2° 12'	38,3	208,0	285,8	52,3	M20 x 121	5.0
707AE0168✖	707AT0168✖	150	168,3	34,5	76,7	6,4	2° 10'	37,5	210,8	285,8	52,3	M20 x 121	5.0
707AE0219✖	707AT0219✖	200	219,1	34,5	130,0	6,4	1° 40'	29,2	271,3	355,6	62,7	M22 x 165	9.7
707AE0273✖	707AT0273✖	250	273,0	34,5	202,0	6,4	1° 20'	23,3	331,7	417,6	66,8	M24 x 165	13.2
707AE0324✖	707AT0324✖	300	323,9	34,5	284,0	6,4	1° 7'	19,2	390,9	478,5	66,8	M24 x165	16.8

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
† Maximum pressure and end load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ for other pipe materials and/or wall thicknesses. Contact Tyco Technical Services for details.
‡ Max available end gap and deflection is for cut grooved standard weight pipe. Minimum gap = 0.
Values for roll grooved pipe will be half that of cut grooved.
For information on other alternative sizes, contact Tyco Technical Services.
See page 9-6 for gasket information

Figure 716

Flexible Reducing Coupling

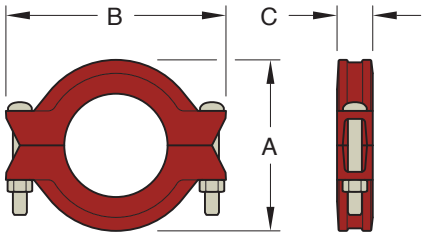


Sizes	DN50 x DN40 thru DN200 x DN150 (2" x 1-½" thru 8" x 6")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	24,1 bar (350 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1830**

The GRINNELL G-FIRE 716 Flexible Reducing Coupling allows easy transition between two different pipe sizes and replaces two couplings and a reducing fitting. ■ It is capable of pressures up to 24,1 bar (350 psi) depending on pipe size and wall thickness. A flexible reducing coupling is not recommended for low-temperature applications. ■ Faster and easier than threading, welding or using flanges.

LPCB Issue 03, 04, 07 Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		Max.† Pressures Bar	Max.† End Load kN.	Max.*‡ End Gap mm	Deflection ‡		Dimensions mm			Coupling Bolts Size (Qty 2) mm	Approx. Weight kg
	Nominal mm	O.D. mm				Degrees Per Coupling	mm/m	A	B	C		
716AE2015✖	50 x 40	60,3 x 48,3	24,1	4,412	3,3	1° 53'	32,5	88,9	128,5	47,8	M10 x 57	0.9
716AE2520✖	65 x 50	73,0 x 60,3	24,1	6,894	3,3	1° 33'	26,7	101,6	139,7	47,8	M10 x 57	1.1
716ME2620✖	65 x 50	76,1 x 60,3	24,1	6,894	3,3	1° 34'	26,7	106,4	149,4	47,8	M12 x 76	1.4
716AE3020✖	80 x 50	88,9 x 60,3	24,1	6,894	3,3	1° 17'	22,5	119,1	165,1	47,8	M12 x 76	1.9
716AE3025✖	80 x 65	88,9 x 73,0	24,1	10,106	3,3	1° 17'	22,5	119,1	165,1	47,8	M12 x 76	2.0
716ME3026✖	80 x 65	88,9 x 76,1	24,1	11,004	3,3	1° 17'	22,5	119,1	165,1	47,8	M12 x 76	1.9
716AE4220✖	100 x 50	114,3 x 60,3	24,1	6,894	4,8	2° 38'	45,8	152,4	206,5	50,8	M16 x 83	2.5
716AE4225✖	100 x 65	114,3 x 73,0	24,1	10,101	4,8	2° 38'	45,8	152,4	206,5	50,8	M16 x 83	2.9
716ME4226✖	100 x 65	114,3 x 76,1	24,1	11,004	4,8	2° 38'	45,8	152,4	206,5	50,8	M16 x 83	2.9
716AE4230✖	100 x 80	114,3 x 88,9	24,1	14,977	4,8	2° 38'	45,8	152,4	206,5	50,8	M16 x 83	2.8
716ME5242✖	125 x 100	139,7 x 114,3	24,1	24,749	6,4	2° 38'	45,8	179,3	241,3	52,3	M20 x 121	4.3
716AE5342✖	125 x 100	141,3 x 114,3	24,1	24,759	6,4	2° 5'	36,7	181,1	242,8	52,3	M20 x 121	4.4
716ME6242✖	150 x 100	165,1 x 114,3	20,6	21,222	6,4	1° 50'	31,7	207,8	274,6	52,3	M20 x 121	5.7
716AE6342✖	150 x 100	168,3 x 114,3	20,6	21,222	6,4	1° 44'	30,0	212,9	276,4	52,3	M20 x 121	5.7
716AE6353✖	150 x 125	168,3 x 141,3	20,6	32,436	6,4	1° 44'	30,0	212,9	276,4	52,3	M20 x 121	5.2
716AE8063✖	200 x 150	219,1 x 168,3	20,6	45,999	6,4	1° 15'	21,7	271,5	349,3	57,2	M22 x 165	9.4

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish

* Maximum available gap between pipe ends. Minimum gap = 0.

† Maximum pressure and end load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.

‡ Max end gap and deflection is for cut grooved standard weight pipe. Values for roll grooved pipe will be half that of cut grooved.

For information on other alternative sizes, contact Tyco Technical Services.

See page 9-7 for gasket information

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 577, 579, 705, 707

Replacement Gaskets

Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Gasket Temperature	**Grade "A" EPDM:** -34°C to 66°C (-30°F to 150°F) **Grade "E" EPDM:** -34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1895**

Style C

Tri-Seal

Center-Stop

Pipe Size		EPDM			
Nominal mm	O.D. mm	Grade A EPDM C-Style PreLube Gasket	Grade E Tri-Seal	Grade E C-Style	Grade "A" EPDM Center-Stop Gasket
25	33,7	034EPDMAPL	10EPDM-TRI	10EPDM	–
32	42,4	042EPDMAPL	12EPDM-tri	12EPDM	12EPDM579
40	48,3	048EPDMAPL	15EPDM-tri	15EPDM	15EPDM579
50	60,3	060EPDMAPL	20EPDM-tri	20EPDM	20EPDM579
65	73,0	073EPDMAPL	25EPDM-tri	25EPDM	25EPDM579
65	76,1	076EPDMAPL	26EPDM-tri	26EPDM	26EPDM579
80	88,9	089EPDMAPL	30EPDM-tri	30EPDM	30EPDM579
100	108,0	108EPDMAPL	41EPDM-tri	41EPDM	–
100	114,3	114EPDMAPL	42EPDM-tri	42EPDM	42EPDM579
125	133,0	133EPDMAPL	51EPDM-tri	51EPDM	–
125	139,7	139EPDMAPL	52EPDM-tri	52EPDM	52EPDM579
125	141,3	141EPDMAPL	52EPDM-tri	52EPDM	–
150	159,0	159EPDMAPL	61EPDM-tri	61EPDM	–
150	165,1	165EPDMAPL	62EPDM-tri	62EPDM	62EPDM579
150	168,3	168EPDMAPL	63EPDM-tri	63EPDM	60EPDM579
200	219,1	219EPDMAPL	80EPDM-tri	80EPDM	80EPDM579
250	273,0	273EPDMAPL	11EPDM-tri	11EPDM	–
300	323,9	324EPDMAPL	13EPDM-tri	13EPDM	–

Figure 716

Replacement Gaskets

Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1895**

Pipe Size		EPDM Grade E 716-Style
Nominal mm	O.D. mm	
50 x 40	60,3 x 48,3	EPDM2015
65 x 50	73,0 x 60,3	EPDM2520
65 x 50	76,1 x 60,3	EPDM2620
80 x 50	88,9 x 60,3	EPDM3020
80 x 65	88,9 x 73,0	EPDM3025
80 x 65	88,9 x 76,1	EPDM3026
100 x 50	114,3 x 60,3	EPDM4220
100 x 65	114,3 x 73,0	EPDM4225
100 x 65	114,3 x 76,1	EPDM4226
100 x 80	114,3 x 88,9	EPDM4230
125 x 100	139,7 x 114,3	EPDM5242
125 x 100	141,3 x 114,3	EPDM5342
150 x 100	165,1 x 114,3	EPDM6242
150 x 100	168,3 x 114,3	EPDM6342
150 x 125	168,3 x 141,3	EPDM6553
200 x 150	219,1 x 168,3	EPDM8063

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 71

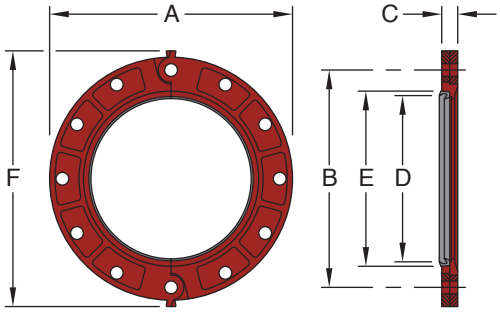
Flange Adapter

Sizes	DN50 thru DN300 (2" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	17,2 bar (250 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Flange Drilling	ANSI Class 125 and 150, or PN16 standards
Tech Data Sheet	**TFP1880**

The GRINNELL 71 Flange Adapter allows for a direct transition from flanged components to a grooved piping system. ■ Capable of pressures up to 17,2 bar (250 psi) depending on pipe size and wall thickness.

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		Flange Type	Max † End Load kN	Dimensions - mm						Recommended Flange Mating Bolts ‡		Approx. Wt. kg
	Nominal mm	O.D. mm			A	B	C	*D	*E	F	Size Dia. x Lg mm	Qty.	
71dae0060✖	50	60,3	PN10 / PN16	4,93	162,1	125,0	19,1	60,5	86,6	184,2	M16 x 76	4	1.4
71dae0073✖	65	76,1	PN10 / PN16	7,86	184,9	145,0	22,4	76,1	102,4	205,5	M16 x 76	4	2.3
71dae0076✖	80	88,9	PN10	10,70	200,2	160,0	23,9	88,9	115,1	222,3	M16 x 76	4	2.5
71dae0089✖	80	88,9	PN16	10,70	200,2	160,0	23,9	88,9	115,1	222,3	M16 x 76	8	2.5
71dae0114✖	100	114,3	PN10 / PN16	17,69	228,6	180,1	23,9	114,3	140,5	251,5	M16 x 76	8	3.2
71dme0139✖	125	139,7	PN10 / PN16	26,42	249,9	210,1	25,4	139,7	165,9	271,5	M16 x 89	8	4.2
71dae0165✖	150	165,1	PN10 / PN16	36,90	285,8	240,0	25,4	165,1	191,3	307,8	M20 x 89	8	4.5
71dae0168✖	150	168,3	PN10 / PN16	38,33	279,4	241,1	25,4	168,1	197,6	301,8	M20 x 89	8	7.5
71dme8219✖	200	219,1	PN10	64,97	339,9	294,9	28,7	218,9	252,5	363,5	M20 x 89	8	9.9
71dme0219✖	200	219,1	PN16	64,97	339,9	294,9	28,7	218,9	252,5	363,5	M20 x 89	12	9.9
71dae8273✖	250	273,0	PN10	100,93	395,2	350,0	30,2	273,1	312,7	419,1	M22 x 102	12	10.2
71dae0273✖	250	273,0	PN16	100,93	406,4	355,1	30,2	273,1	312,7	428,8	M22 x 102	12	11.0
71dme8324✖	300	323,9	PN10	141,98	445,0	445,0	31,8	323,9	363,9	420,6	M20 x 102	12	12.5
71dme0324✖	300	323,9	PN16	141,98	460,2	460,2	31,8	323,9	363,9	486,2	M22 x 102	12	12.7

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish

* Dimensions D and E represent minimum and maximum sealing surfaces.† Maximum end load is total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.

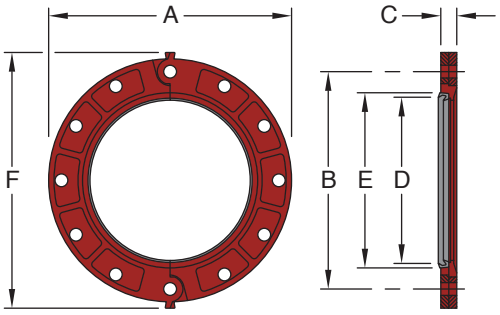
‡ Mating Bolts and Nuts are not supplied. Flange Mating Bolts must be at least SAE J429, Grade 5 or stronger. Bolt lengths are standard; responsibility lies with the purchaser to verify the correct length for the intended application.

For information on other alternative sizes, contact Tyco Technical Services.

See page 9-11 for gasket information

See page 9-10 for Flange Adapter Washers.

Figure 71 - ANSI Flange



Part Number	Pipe Size		Max † Pressure Bar	Max End Load † kN	Dimensions - mm						Recommended Flange Mating Bolts ‡		Approx. Wt. Kg.
	Nominal mm	O.D. mm			A	B	C	*D	*E	F	Size Dia. x Lg Inches	Qty.	
71AAe0060✖	50	60,3	17,2	4,93	162,1	120,7	19,1	60,5	86,6	184,2	5/8 x 3	4	1.4
71AAe0073✖	65	73,0	17,2	7,22	178,0	140,0	22,0	73,0	99,0	200,0	5/8 x 3	4	2.3
71AAe0076✖	65	76,1	17,2	9,44	184,9	145,0	22,0	76,1	102,4	205,2	5/8 x 3	4	2.6
71AAe0089✖	80	88,9	17,2	10,70	190,5	152,4	23,9	88,9	115,1	251,0	5/8 x 3	4	2.5
71AAe0114✖	100	114,3	17,2	17,69	228,6	190,5	23,9	114,3	140,5	251,5	5/8 x 3	8	3.2
71AAe0139✖	125	139,7	17,2	31,70	249,9	210,1	25,4	139,7	169,2	270,3	3/4 x 3-1/2	8	4.2
71AAe0141✖	125	141,3	17,2	27,03	254,0	215,9	25,4	141,2	170,7	289,1	3/4 x 3-1/2	8	4.2
71AAe0165✖	150	165,1	17,2	44,28	285,0	240,6	25,4	165,1	194,6	307,3	3/4 x 3-1/2	8	5.0
71AAe0168✖	150	168,3	17,2	38,33	279,4	241,3	25,4	168,1	197,6	301,8	3/4 x 3-1/2	8	4.5
71AAe0219✖	200	219,1	17,2	64,97	342,9	298,5	28,7	218,9	252,5	365,3	3/4 x 3-1/2	8	7.5
71AAe0273✖	250	273,0	17,2	100,93	406,4	362,0	30,2	273,1	312,7	428,8	7/8 x 4	12	9.9
71AAe0324✖	300	323,9	17,2	141,98	482,6	431,8	31,8	323,9	363,5	508,0	7/8 x 4	12	11.0

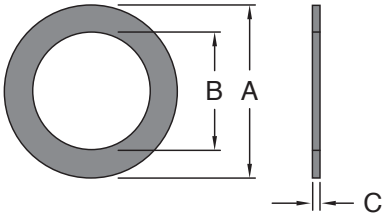
✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
* Dimensions D and E represent minimum and maximum sealing surfaces.
· Metric segment bolt are available upon request.
† Maximum Pressure and End Load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.
‡ Mating bolts and nuts are not supplied. Flange mating bolts must be at least SAE J429, Grade 5 or stronger. Bolt lengths are standard; responsibility lies with the purchaser to verify the correct length for the intended application.
For information on other alternative sizes, contact Tyco Technical Services.
See page 9-11 for gasket information
See page 9-10 for Flange Adapter Washers.

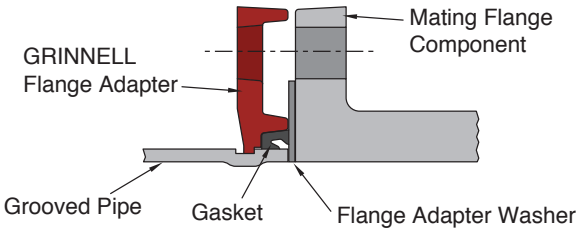
Grooved Piping Products

Flange Adapter Washers

Sizes	DN50 thru DN300 (2" thru 12")
Material	Stainless steel ASTM A666 Type 304-2B
Flange Drilling	ANSI Class 125 and 150, or PN16 standards
Tech Data Sheet	Contact Tyco for details

Carbon steel Flange Adapter Washers are required when the Figure 71 Flange Adapter is used against surfaces such as: Rubber surfaces, Adapting to AWWA cast flanges, Rubber faced wafer valves, Serrated flange surfaces.



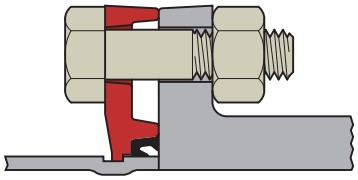


Part Number		Pipe Size		Dimensions - mm		
PN10/PN16	ANSI	Nominal mm	O.D. mm	A	B	C
INSDIN060M	INS060M	50	60,3	100,1	57,2	3,0
INSDIN073M	INS073M	65	73,0	119,1	69,9	3,0
INSDIN076M	INS076M	65	76,1	124,2	73,2	3,0
INSDIN089M	INS089M	80	88,9	131,8	85,9	3,0
INSDIN114M	INS114M	100	114,3	169,9	111,3	3,0
INSDIN139M	INS139M	125	139,7	189,2	135,1	3,0
INSDIN141M	INS141M	125	141,3	192,0	136,7	3,0
INSDIN165M	INS165M	150	165,1	215,1	160,5	3,0
INSDIN168M	INS168M	150	168,3	217,4	163,6	3,0
INSDIN219M	INS219M	200	219,1	274,6	214,4	3,0
INSDIN273M	INS273M	250	273,0	335,0	266,7	3,0
INSDIN324M	INS324M	300	323,9	404,9	317,5	3,0

For information on other alternative sizes, contact Tyco Technical Services.
Plate material: stainless steel ASTM A666 Type 304-2B

Figure 71

Replacement Gaskets



Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1895**

This gasket is specifically designed for use with the Figure 71 Flange Adaptor. The gasket has an optimum amount of rubber to provide a dependable seal between both the pipe and mating surface. The gasket is available in Grade "E" EPDM.

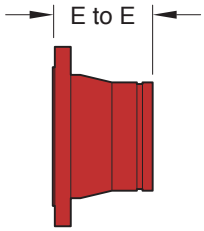
Pipe Size		EPDM Grade E 71-Style
Nominal mm	O.D. mm	
50	60,3	20EPDM71
65	73,0	25EPDM71
65	76,1	26EPDM71
80	88,9	30EPDM71
100	114,3	42EPDM71
125	139,7	52EPDM71
125	141,3	53EPDM71
150	165,1	62EPDM71
150	168,3	63EPDM71
200	219,1	80EPDM71
250	273,0	11EPDM71
300	323,9	13EPDM71

Grooved Piping Products

Figure 343 & 344

Flange Adapters (PN10/PN16 BS 4504)

Sizes	DN50 thru DN300
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Flange Drilling	PN10/PN16 BS 4504
Tech Data Sheet	Contact Tyco for details



Part Number	Pipe Size		Flange Drilling	E to E mm	Mating Flange		Approx. Weight Kg.
	Nominal mm	O.D. mm			Bolt Qty.	Bolt Size mm	
343F00060✖	50	60,3	PN10 & PN16	95,0	4	M16 x 65	2.3
343F00076✖	65	76,1	PN10 & PN16	95,0	4	M16 x 65	3.3
343F00089✖	80	88,9	PN10 & PN16	100,0	4	M16 x 70	4.0
343F00108✖	100	108,0	PN10 & PN16	102,0	8	M16 x 70	4.5
343F00114✖	100	114,3	PN10 & PN16	102,0	8	M16 x 70	4.6
343F00133✖	125	133,0	PN10 & PN16	105,0	8	M16 x 75	6.0
343F00139✖	125	139,7	PN10 & PN16	105,0	8	M16 x 75	6.0
343F00159✖	125	159,0	PN10 & PN16	105,0	8	M16 x 75	7.2
343F00165✖	150	165,1	PN10 & PN16	105,0	8	M20 x 80	7.2
343F00168✖	150	168,3	PN10 & PN16	105,0	8	M20 x 80	7.2
344F00219✖	200	219,1	PN10	112,0	8	M20 x 80	10.2
343F00219✖	200	219,1	PN16	112,0	12	M20 x 90	10.2
344F00273✖	250	273,0	PN10	138,0	12	M20 x 90	18.0
343F00273✖	250	273,0	PN16	138,0	12	M24 x 100	18.0
344F00324✖	300	323,9	PN10	138,0	12	M20 x 90	22.4
343F00324✖	300	323,9	PN16	138,0	12	M24 x 100	22.4

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
For information on other alternative sizes, contact Tyco Technical Services.

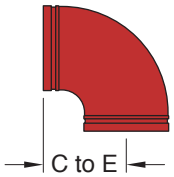
Figure 510

90° Elbows

Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		C to E mm	Approx. Weight kg
	Nominal mm	O.D. mm		
510A00034✖	25	33,7	57,2	0.4
510A00042✖	32	42,4	69,9	0.5
510A00048✖	40	48,3	69,9	0.6
510A00060✖	50	60,3	82,6	0.9
510A00073✖	65	73,0	95,3	1.3
510A00076✖	65	76,1	95,3	1.3
510A00089✖	80	88,9	108,0	1.9
510A00114✖	100	114,3	127,0	3.2
510A00139✖	125	139,7	139,7	4.7
510A00165✖	150	165,1	165,1	6.3
510A00168✖	150	168,3	165,1	6.9
510A00219✖	200	219,1	196,9	13.4
510A00273✖	250	273,0	228,6	23.6
510A00324✖	300	323,9	254,0	30.1

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technica

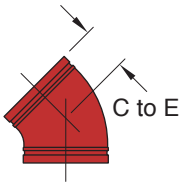
Grooved Piping Products

Figure 501

45° Elbows

Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		C to E mm	Approx. Weight kg1
	Nominal mm	O.D. mm		
501A00034✖	25	33,7	43,2	0.3
501A00042✖	32	42,4	44,5	0.4
501A00048✖	40	48,3	44,5	0.5
501A00060✖	50	60,3	50,8	0.6
501A00073✖	65	73,0	57,2	1.0
501A00076✖	65	76,1	57,2	1.0
501A00089✖	80	88,9	63,5	1.5
501A00114✖	100	114,3	76,2	2.5
501A00139✖	125	139,7	82,6	3.3
501A00165✖	150	165,1	88,9	4.2
501A00168✖	150	168,3	88,9	5.1
501A00219✖	200	219,1	108,0	9.3
501A00273✖	250	273,0	120,7	13.7
501A00324✖	300	323,9	133,4	22.0

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technical Services.

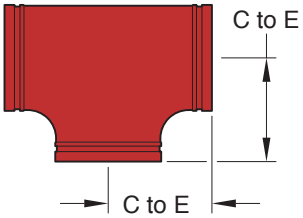
Figure 519

Tees

Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		C to E mm	Approx Weight Kg
	Nominal mm	O.D. mm		
519A00034✖	25	33,4	57,2	0.5
519A00042✖	32	42,4	69,9	0.8
519A00048✖	40	48,3	69,9	1.0
519A00060✖	50	60,3	82,6	1.3
519A00073✖	65	73,0	95,3	2.0
519A00076✖	65	76,1	95,3	2.0
519A00089✖	80	88,9	108,0	3.0
519A00114✖	100	114,3	127,0	4.3
519A00139✖	125	139,7	139,7	6.3
519A00141✖	125	141,3	127,0	6.4
519A00165✖	150	165,1	165,1	8.9
519A00168✖	150	168,3	165,1	10.2
519A00219✖	200	219,1	196,9	18.1
519A00273✖	250	273,0	228,6	29.1
519A00324✖	300	323,9	254,0	49.9

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technical Services.

Grooved Piping Products

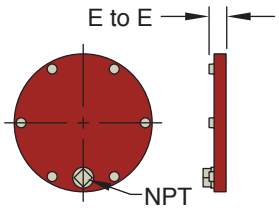
Figure 260

End Caps

Sizes	DN25 thru DN300 (1" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		E to E mm	Approx Weight Kg
	Nominal mm	O.D. mm		
260m00034✖	25	33,4	21,1	0.1
260m00042✖	32	42,4	21,1	0.1
260m00048✖	40	48,3	21,1	0.2
260M00060✖	50	60,3	23,4	0.3
260M00073✖	65	73,0	23,4	0.5
260M00076✖	65	76,1	21,8	0.6
260M00089✖	80	88,9	23,4	0.6
260M00114✖	100	114,3	25,4	1.2
260M00139✖	125	139,7	23,4	2.1
260M00141✖	125	141,3	25,4	2.3
260M00159✖	125	159,0	25,0	3.8
260M00165✖	150	165,1	23,4	2.9
260M00168✖	150	168,3	25,4	2.8
260M00219✖	200	219,1	27,0	3.2
260m00273✖	250	273,0	25,8	11.1
260m00324✖	300	323,9	25,8	14.1

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technical Services.

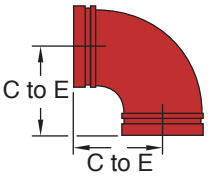
Figure 510S

Short Pattern 90° Elbows

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		C to E mm	Approx. Weight kg
	Nominal mm	O.D. mm		
510SA0060✖	50	60,3	69,9	0.7
510SA0073✖	65	73,0	76,2	1.0
510SA0076✖	65	76,1	76,2	1.0
510SA0089✖	80	88,9	85,9	1.4
510SA0114✖	100	114,3	101,6	2.3
510SA0139✖	125	139,7	124,0	3.9
510SA0141✖	125	141,3	123,0	4.3
510SA0165✖	150	165,1	139,7	5.2
510SA0168✖	150	168,3	139,7	5.5
510SA0219✖	200	219,1	174,8	10.1

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technical Services.

Grooved Piping Products

Figure 519S

Short Pattern Tees

Sizes	DN50 thru DN200 (2" thru 8")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
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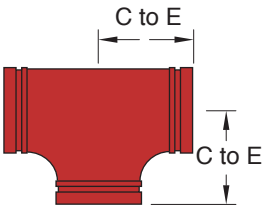
For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Pipe Size		C to E mm	Approx Weight Kg
	Nominal mm	O.D. mm		
519SA0060✖	50	60,3	69,9	1.2
519SA0073✖	65	73,0	76,2	2.0
519SA0076✖	65	76,1	76,2	1.4
519SA0089✖	80	88,9	85,9	3.0
519SA0114✖	100	114,3	101,6	4.9
519SA0139✖	125	139,7	124,0	5.0
519SA0141✖	125	141,3	123,0	5.3
519SA0165✖	150	165,1	139,7	6.7
519SA0168✖	150	168,3	139,7	6.8
519SA0219✖	200	219,1	174,8	18.1

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish
For information on other alternative sizes, contact Tyco Technical Services.

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

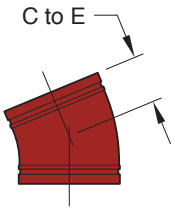
Figure 212 / 312

22-½° Elbows

Sizes	DN32 thru DN300 (1-¼" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

Issue 03, 04, 07
Cert No. 570, 669, 673

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Pipe Size		Figure 212 / 312		
Nominal mm	O.D. mm	Part Number	C to E mm	Approx. Weight Kg.
32	42,4	212A00042✖	44,5	0.2
40	48,3	212A00048✖	44,5	0.2
50	60,3	212A00060✖	47,8	0.3
65	73,0	312A00073✖	50,8	0.3
65	76,1	212M00076✖	50,8	0.5
80	88,9	212A00089✖	57,2	0.6
100	114,3	212A00114✖	66,8	1.1
125	139,7	212M00139✖	73,2	1.1
125	141,3	312A00141✖	73,2	1.9
150	165,1	312F00165✖	79,5	2.0
150	168,3	212A00168✖	79,5	2.5
200	219,1	312A00219✖	98,6	5.0
250	273,0	312F00273✖	111,3	6.4
300	323,9	312F00324✖	124,0	10.0

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
For information on other alternative sizes, contact Tyco Technical Services.

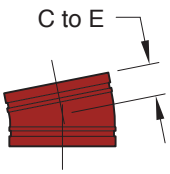
Grooved Piping Products

Figure 211 / 311

11-¼° Elbows

Sizes	DN32 thru DN300 (1-¼" thru 12")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Tech Data Sheet	**TFP1815**

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Pipe Size		Figure 211 /311 - Cast or Fabricated		
Nominal mm	O.D. mm	Part Number	C to E mm	Approx. Weight Kg.
32	42,4	211A00042✖	35,1	0.2
40	48,3	211A00048✖	35,1	0.2
50	60,3	211A00060✖	35,1	0.3
65	73,0	311A00073✖	38,1	0.5
65	76,1	211M00076✖	38,1	0.5
80	88,9	211A00089✖	38,1	0.5
100	114,3	211A00114✖	44,5	1.0
125	139,7	211M00139✖	50,8	1.0
125	141,3	311A00141✖	50,8	1.5
150	165,1	211M00165✖	50,8	1.6
150	168,3	211A00168✖	50,8	2.1
200	219,1	311A00219✖	50,8	3.9
250	273,0	311F00273✖	54,1	4.1
300	323,9	311F00324✖	57,2	7.6

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
For information on other alternative sizes, contact Tyco Technical Services.

Figure 221 / 321

Reducing Tees

Figure 221
Reducing Tee
Cast

Figure 321
Reducing Tee
Fabricated

Sizes	DN50 x DN50 x DN25 thru DN300 x DN30 x DN250 (2" x 2" x 1" thru 12" x 12" x 10")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Maximum Working Pressure	20,7 bar (300 psi)
Tech Data Sheet	**TFP1815**

For detailed Listing and Approval information contact
Tyco Fire Protection Products.

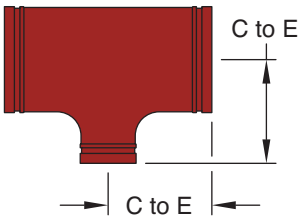


Figure 221
Reducing Tee Cast

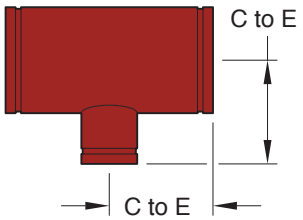


Figure 321
Reducing Tee Fabricated

Pipe Size		Figure 221 - Cast			Figure 321 - Fabricated		
Nominal mm	O.D. mm	Part Number	C to E mm	Approx. Weight Kg.	Part Number	C to E mm	Approx. Weight Kg.
50 x 50 x 25	60,3 x 60,3 x 33,7	–	–	–	321F02010✖	82,6	0,9
50 x 50 x 40	60,3 x 60,3 x 48,3	221M02015✖	82,6	1,2	321F02015✖	82,6	0,9
65 x 65 x 50	73,0 x 73,0 x 60,3	221M02520✖	95,3	1,9	321F02520✖	95,3	2,0
65 x 65 x 40	76,1 x 76,1 x 48,3	221M02615✖	95,3	2,0	321F02615✖	95,3	1,9
65 x 65 x 50	76,1 x 76,1 x 60,3	221M02620✖	95,3	2,0	–	–	–
80 x 80 x 25	88,9 x 88,9 x 33,7	221M03010✖	108,0	2,5	321F03010✖	108,0	2,7
80 x 80 x 50	88,9 x 88,9 x 60,3	221M03020✖	108,0	2,7	321F03020✖	108,0	2,9
80 x 80 x 65	88,9 x 88,9 x 73,0	221M03025✖	108,0	2,8	321F03025✖	108,0	2,9
80 x 80 x 65	88,9 x 88,9 x 76,1	221M03026✖	108,0	2,7	321F03026✖	108,0	3,0
100 x 100 x 50	114,3 x 114,3 x 60,3	221M04220✖	127,0	4,1	–	–	–
100 x 100 x 65	114,3 x 114,3 x 73,0	221M04225✖	127,0	4,3	–	–	–
100 x 100 x 65	114,3 x 114,3 x 76,1	221M04226✖	127,0	4,3	321F04226✖	127,0	5,1
100 x 100 x 80	114,3 x 114,3 x 88,9	221M04230✖	127,0	4,4	321F04230✖	127,0	5,2
125 x 125 x 65	139,7 x 139,7 x 76,1	–	–	–	321F05226✖	139,7	6,9
125 x 125 x 80	139,7 x 139,7 x 88,9	221M05230✖	139,7	6,4	321F05230✖	139,7	5,5
125 x 125 x 100	139,7 x 139,7 x 114,3	221M05242✖	139,7	6,3	321F05242✖	139,7	7,4
150 x 150 x 50	165,1 x 165,1 x 60,3	–	–	–	321F06220✖	165,1	10,4
150 x 150 x 65	165,1 x 165,1 x 76,1	–	–	–	321F06226✖	165,1	10,7
150 x 150 x 80	165,1 x 165,1 x 88,9	221M06230✖	165,1	9,5	321F06230✖	165,1	10,0
150 x 150 x 100	165,1 x 165,1 x 114,3	221M06242✖	165,1	9,9	321F06242✖	165,1	10,3
150 x 150 x 50	168,3 x 168,3 x 60,3	221M06320✖	165,1	8,8	321F06220✖	165,1	10,4

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 221 / 321 - Reducing Tees

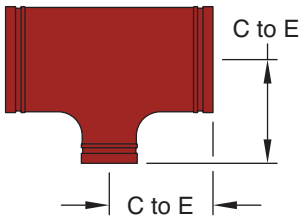


Figure 221
Reducing Tee Cast

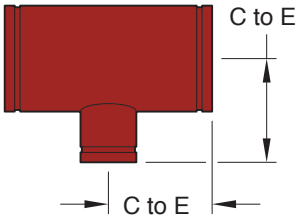


Figure 321
Reducing Tee Fabricated

Pipe Size		Figure 221 - Cast			Figure 321 - Fabricated		
Nominal mm	O.D. mm	Part Number	C to E mm	Approx. Weight Kg.	Part Number	C to E mm	Approx. Weight Kg.
150 x 150 x 65	168,3 x 168,3 x 73,0	221M06325✖	165,1	9,8	321F06226✖	165,1	10,6
150 x 150 x 65	168,3 x 168,3 x 76,1	221M06326✖	165,1	9,8	321F06226✖	165,1	10,7
150 x 150 x 80	168,3 x 168,3 x 88,9	221M06330✖	165,1	9,5	321F06330✖	165,1	10,0
150 x 150 x 100	168,3 x 168,3 x 114,3	221M06342✖	165,1	9,9	321F06342✖	165,1	10,8
150 x 150 x 125	168,3 x 168,3 x 139,7	221M06352✖	165,1	10,4	321F06352✖	165,1	10,9
200 x 200 x 100	219,1 x 219,1 x 114,3	221A08042✖	196,9	16,9	321F08042✖	196,9	16,5
200 x 200 x 125	219,1 x 219,1 x 139,7	221M08052✖	196,9	17,1	321F08052✖	196,9	16,6
200 x 200 x 150	219,1 x 219,1 x 165,1	221M08062✖	196,9	17,1	321F08062✖	196,9	17,7
200 x 200 x 150	219,1 x 219,1 x 168,3	221A08063✖	196,9	17,1	321F08063✖	196,9	17,7
250 x 250 x 100	273,0 x 273,0 x 114,3	221M01142✖	228,6	29,9	321F01142✖	228,6	26,2
250 x 250 x 125	273,0 x 273,0 x 139,7	–	–	–	321F01152✖	228,6	26,3
250 x 250 x 150	273,0 x 273,0 x 168,3	221M01163✖	228,6	30,8	321F01162✖	228,6	28,1
250 x 250 x 200	273,0 x 273,0 x 219,1	221M01180✖	228,6	31,8	321F01180✖	228,6	28,6
300 x 300 x 80	323,9 x 323,9 x 88,9	–	–	–	321F01330✖	254,0	36,4
300 x 300 x 100	323,9 x 323,9 x 114,3	–	–	–	321F01342✖	254,0	36,6
300 x 300 x 125	323,9 x 323,9 x 139,7	–	–	–	321F01352✖	254,0	37,4
300 x 300 x 150	323,9 x 323,9 x 165,1	–	–	–	321F01362✖	254,0	36,2
300 x 300 x 150	323,9 x 323,9 x 168,3	–	–	–	321F01363✖	254,0	36,2
300 x 300 x 200	323,9 x 323,9 x 219,1	–	–	–	321F01380✖	254,0	34,6
300 x 300 x 250	323,9 x 323,9 x 273,0	–	–	–	321F01311✖	254,0	35,2

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
For information on other alternative sizes, contact Tyco Technical Services.

Figure 250 / 350

Concentric Reducers

Figure 250
Concentric Reducer
Cast

Figure 350
Concentric Reducer
Fabricated

Sizes	DN32 x DN25 thru DN300 x DN250 (1-¼" x 1" thru 12" x 10")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
End	Groove x Groove
Maximum Working Pressure	20,7 bar (300 psi)
Tech Data Sheet	**TFP1815**

For detailed Listing and Approval information contact Tyco Fire Protection Products.

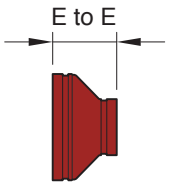


Figure 250
Concentric Reducer Cast

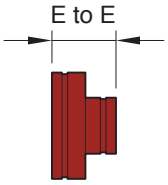


Figure 350
Concentric Reducer Fabricated

Pipe Size		Figure 250 - Cast			Figure 350 - Fabricated		
Nominal mm	O.D. mm	Part Number	E to E mm	Approx. Weight kg	Part Number	E to E mm	Approx. Weight kg
32 x 25	42,4 x 33,7	250M01210✖	63,5	0,3	–	–	–
40 x 25	48,3 x 33,7	250M01510✖	63,5	0,3	–	–	–
40 x 32	48,3 x 42,4	250A01512✖	63,5	0,3	350F01512✖	63,5	0,2
50 x 25	60,3 x 33,7	250M02010✖	63,5	0,4	–	–	–
50 x 32	60,3 x 42,4	250M02012✖	63,5	0,4	–	–	–
50 x 40	60,3 x 48,3	250M02015✖	63,5	0,4	–	–	–
65 x 50	73,0 x 60,3	250M02520✖	63,5	0,6	–	–	–
65 x 25	76,1 x 33,7	–	–	–	350F02610✖	63,5	0,4
65 x 32	76,1 x 42,4	250M02612✖	63,5	0,6	350F02612✖	63,5	0,4
65 x 40	76,1 x 48,3	250M02615✖	63,5	0,6	–	–	–
65 x 50	76,1 x 60,3	250M02620✖	63,5	0,7	–	–	–
80 x 40	88,9 x 48,3	250A03015✖	63,5	0,8	–	–	–
80 x 50	88,9 x 60,3	250M03020✖	63,5	0,8	–	–	–
80 x 65	88,9 x 73,0	250M03025✖	63,5	0,8	–	–	–
80 x 65	88,9 x 76,1	250M03026✖	63,5	0,9	–	–	–
100 x 50	114,3 x 60,3	250M04220✖	76,2	1,1	–	–	–
100 x 65	114,3 x 73,0	250M04225✖	76,2	1,2	–	–	–
100 x 65	114,3 x 76,1	250M04226✖	76,2	1,5	350F06226✖	76,2	1,0
100 x 80	114,3 x 88,9	250M04230✖	76,2	1,3	–	–	–
100 x 108	114,3 x 108,0	–	–	–	350F04241✖	76,2	1,5
125 x 80	139,7 x 88,9	250M05230✖	88,9	1,9	–	–	–
125 x 100	139,7 x 114,3	250M05242✖	88,9	2,0	–	–	–
125 x 100	141,3 x 114,3	250M05342✖	88,9	2,0	–	–	–
150 x 80	165,1 x 88,9	250M06230✖	101,6	2,5	–	–	–
150 x 100	165,1 x 114,3	250M06242✖	101,6	2,7	–	–	–

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 250 / 350 - Concentric Reducers

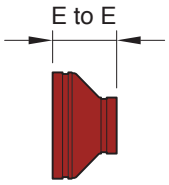


Figure 250
Concentric Reducer Cast

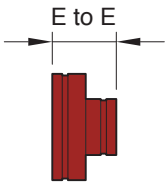


Figure 350
Concentric Reducer Fabricated

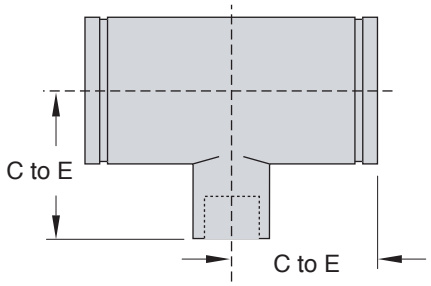
Pipe Size		Figure 250 - Cast			Figure 350 - Fabricated		
Nominal mm	O.D. mm	Part Number	E to E mm	Approx. Weight kg	Part Number	E to E mm	Approx. Weight kg
150 x 125	165,1 x 139,7	250M06252✖	101,6	2,5	–	–	–
150 x 50	168,3 x 60,3	250M06320✖	101,6	2,4	–	–	–
150 x 65	168,3 x 76,1	250M06326✖	101,6	2,7	–	–	–
150 x 80	168,3 x 88,9	250A06330✖	101,6	2,6	350F06330✖	101,6	2,7
150 x 100	168,3 x 114,3	250M06342✖	101,6	2,7	–	–	–
150 x 125	168,3 x 139,7	250M06352✖	101,6	2,3	–	–	–
150 x 125	168,3 x 141,3	250M06353✖	101,6	2,8	–	–	–
150 x 159	168,3 x 159,0	–	–	–	350F06361✖	101,6	2,9
150 x 150	168,3 x 165,1	–	–	–	350F06362✖	101,6	2,9
200 x 80	219,1 x 88,9	–	–	–	350F08030✖	127,0	4,9
200 x 100	219,1 x 114,3	250A08042✖	127,0	4,9	350F08042✖	127,0	4,9
200 x 125	219,1 x 139,7	250M08052✖	127,0	4,5	–	–	–
200 x 125	219,1 x 141,3	–	–	–	350F08053✖	127,0	5,1
200 x 150	219,1 x 165,1	250M08062✖	127,0	5,0	–	–	–
200 x 150	219,1 x 168,3	250A08063✖	127,0	5,1	350F08063✖	127,0	5,1
250 x 100	273,0 x 114,3	–	–	–	350F01142✖	152,4	9,3
250 x 150	273,0 x 165,1	250M01162✖	152,4	8,0	–	–	–
250 x 150	273,0 x 168,3	250A01163✖	152,4	7,4	350F01163✖	152,4	8,8
250 x 200	273,0 x 219,1	250A01180✖	152,4	8,3	350F01180✖	152,4	7,8
300 x 100	323,9 x 114,3	–	–	–	350F01342✖	177,8	12,5
300 x 150	323,9 x 165,1	–	–	–	350F01362✖	177,8	12,7
300 x 150	323,9 x 168,3	–	–	–	350F01363✖	177,8	12,7
300 x 200	323,9 x 219,1	250A01380✖	177,8	11,7	350F01380✖	177,8	12,9
300 x 250	323,9 x 273,0	250A01311✖	177,8	12,8	350F01311✖	177,8	12,8

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish
For information on other alternative sizes, contact Tyco Technical Services.

Figure 322

Reducing Tees

Sizes	DN50 x DN50 x DN50 thru DN100 x DN100 x DN65 (2" x 2" x 2" thru 4" x 4" x 76,1mm)
End	Groove x Groove x Female BSP Thread
Tech Data Sheet	Contact Tyco for details



Part Number	Pipe Size		C to GE & C to TE mm	Approx. Weight Kg.
	Nominal mm	O.D. mm		
322F020202	50 x 50 x 50	60,3 x 60,3 x 60,3 ISO R7	82,6	1.2
322F026202	65 x 65 x 50	76,1 x 76,1 x 60,3 ISO R7	95,2	1.8
322F026252	65 x 65 x 50	76,1 x 76,1 x 76,1 ISO R7	95,2	1.9
322F030202	80 x 80 x 50	88,9 x 88,9 x 60,3 ISO R7	108,0	2.2
322F030252	80 x 80 x 65	88,9 x 88,9 x 73,0 ISO R7	108,0	2.3
322F042202	100 x 100 x 50	114,3 x 114,3 x 60,3 ISO R7	127,0	2.6
322F042262	100 x 100 x 65	114,3 x 114,3 x 76,1 ISO R7	127,0	2.8

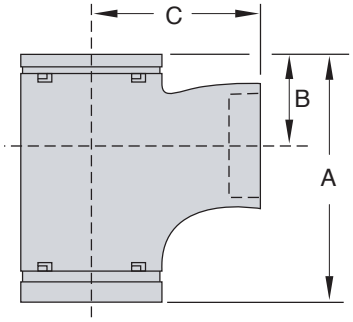
Only available in hot dipped galvanised finish.
For information on other alternative sizes, contact Tyco Technical Services.

Grooved Piping Products

Figure 222

Hydrant Tee

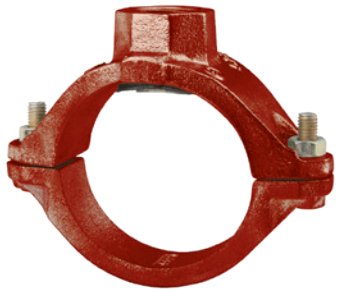
Sizes	DN100 (4")
End	Groove x Groove
Tech Data Sheet	Contact Tyco for details



Part Number	Pipe Size		Hydrant Outlet ISO	Max. Working Pressure bar	A mm	B mm	C mm	Approx. Weight Kg.
	Nominal Size mm	Pipe OD mm						
222V42262	100	114,3	R7	20,7	190	70	133	4.6
Available in hot dipped galvanizing only.								

Figure 522

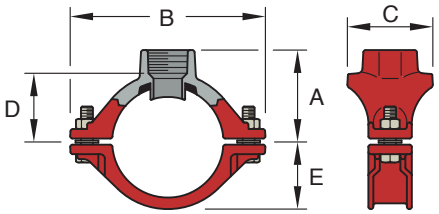
G-FIRE Threaded Sprinkler Outlet



Run Sizes	DN25 thru DN65 (1" thru 2-½")
Outlet Sizes	DN10 thru DN25 (⅜" thru 1")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	20,7 bar (300 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1865**

The GRINNELL Figure 522 Sprinkler Outlet is an economical alternative to welded pipe outlets on steel pipe. ■ The Figure 522 Sprinkler Outlet may be used with full lengths of pipe and eliminates threading and welding, decreasing waste and installation time. ■ The Figure 522 Sprinkler Outlet may be used in wet pipe, dry pipe, and deluge systems.

For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Nominal Pipe Size		Outlet Size ISO 7/1 or NPT Threads mm	Max.‡ Outlet End Load kN	Dimensions - mm					Approx. Weight kg
	Size mm	O.D. mm			A	B	C	D	E	
522F1005✖	25	33,7	15	0,738	25,4	86,4	49,3	14,3	25,4	0.4
522F1007✖			20	1,156	41,7	86,4	49,3	29,0	25,4	0.5
522F1010✖			25	1,156	46,5	86,4	57,2	32,0	25,4	0.5
522F1203✖	32	42,4	10	0,738	31,0	96,0	57,2	23,1	26,9	0.4
522F1205✖			15	0,738	31,0	96,0	57,2	19,8	26,9	0.4
522F1207✖			20	1,156	46,5	96,0	57,2	33,8	26,9	0.5
522F1210✖			25	1,81	50,8	96,0	57,2	36,6	26,9	0.6
522F1505✖	40	48,3	15	0,738	33,5	101,6	57,2	22,4	31,8	0.5
522F1507✖			20	1,156	49,0	101,6	57,2	36,3	31,8	0.5
522F1510✖			25	1,81	53,6	101,6	57,2	39,4	31,8	0.6
522F2005✖	50	60,3	15	0,738	39,6	113,3	57,2	28,4	38,1	0.6
522F2007✖			20	1,156	55,1	113,3	57,2	42,4	38,1	0.7
522F2010✖			25	1,81	60,0	113,3	63,5	45,5	38,1	0.7
522F2605✖	65	76,1	15	0,738	50,8	130,0	57,2	39,6	46,2	0.7
522F2607✖			20	1,156	63,5	130,0	57,2	50,8	46,2	0.8
522F2610✖			25	1,81	69,9	130,0	63,5	55,6	46,2	0.8

✖ = 1 for red paint (RAL 3000) finish, 2 for Geomet finish

See page 9-32 for gasket information.

Available with BSP or NPT threads. Contact Tyco Technical Services for details.

Each branch connection can be made by drilling a one size hole: 24.0mm; +0.5mm/-0.0mm, with the exception of 50 x 25mm and 76.1 x 25mm which requires a hole with diameter 34.9 mm; +0.5 / -0.0 mm.

Grooved Piping Products

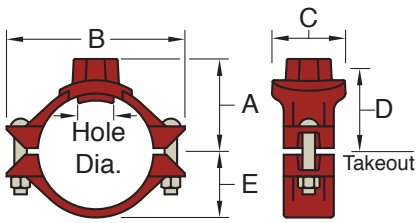
Figure 730

Mechanical Tees BSP Threads

Run Sizes	DN50 thru DN200 (2" thru 8")
Branch Sizes	DN15 thru DN80 outlets (½" thru 3")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	20,7 bar (300 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1860**

The GRINNELL 730 Mechanical Tees & Crosses come with threaded or grooved outlets and can be used for any tee connection where a threaded or grooved outlet is needed. ■ It can be used in place of a tee, a cross connection, or a welded outlet where a threaded or grooved outlet is needed. ■ The Mechanical Tee is ideal for use in retrofit or equipment hookup installations as it can be positioned along the pipe at the proper location in the field, ensuring exact lineup of the branch outlet connection.

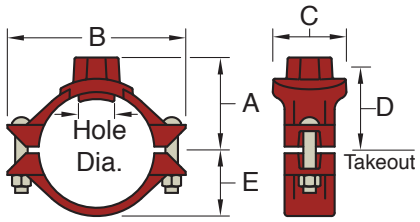
For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Nominal Size Run x Branch mm	Hole Dia.†		Dimensions - mm					Bolt Size mm	Approx. Weight kg
		Min. mm	Max. mm	A	B	C	D	E		
730AT2005✖	50 x 15	38,1	41,3	66,5	124,0	78,0	53,8	40,4	M10 x 57	1,1
730AT2007✖	50 x 20	38,1	41,3	66,5	124,0	78,0	53,8	40,4	M10 x 57	1,0
730AT2010✖	50 x 25	38,1	41,3	66,5	124,0	78,0	53,8	40,4	M10 x 57	1,0
730AT2012✖	50 x 32	44,5	47,6	70,6	124,0	84,3	49,0	40,4	M10 x 57	1,1
730AT2015✖	50 x 40	44,5	47,6	69,9	124,0	84,3	49,0	40,4	M10 x 57	1,1
730AT2505✖	65 x 15	38,1	41,3	73,2	133,4	78,0	60,5	46,0	M10 x 57	1,1
730AT2507✖	65 x 20	38,1	41,3	73,2	133,4	78,0	60,5	46,0	M10 x 57	1,1
730AT2510✖	65 x 25	38,1	41,3	73,2	133,4	78,0	60,5	46,0	M10 x 57	1,1
730AT2512✖	65 x 32	50,8	54,0	76,2	133,4	90,4	55,6	46,0	M10 x 57	1,1
730AT2515✖	65 x 40	50,8	54,0	78,0	133,4	91,2	55,1	46,0	M10 x 57	1,2
730MT2520✖	65 x 50	50,8	54,0	81,0	133,4	101,6	62,0	46,0	M10 x 57	1,2
730AT2605✖	65 x 15	38,1	41,3	74,5	142,7	78,0	62,0	47,5	M10 x 57	1,1
730AT2607✖	65 x 20	38,1	41,3	74,5	142,7	78,0	62,0	47,5	M10 x 57	1,1
730AT2610✖	65 x 25	38,1	41,3	74,5	142,7	78,0	62,0	47,5	M10 x 57	1,1
730MT2612✖	65 x 32	50,8	54,0	77,7	142,7	90,4	57,2	47,5	M10 x 57	1,5
730MT2615✖	65 x 40	50,8	54,0	79,5	142,7	90,4	57,2	47,5	M10 x 57	1,6
730MT2620✖	65 x 50	50,8	54,0	82,6	142,7	101,6	63,5	47,5	M10 x 57	1,7
730MT3005✖	80 x 15	38,1	41,3	81,0	155,7	78,0	65,0	56,1	M12 x 76	1,7
730MT3007✖	80 x 20	38,1	41,3	81,0	155,7	78,0	65,0	56,1	M12 x 76	1,7

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Figure 730 - Mechanical Tees BSP Threads



Part Number	Nominal Size Run x Branch mm	Hole Dia.†		Dimensions - mm					Bolt Size mm	Approx. Weight kg
		Min. mm	Max. mm	A	B	C	D	E		
730MT3010✖	80 x 25	38,1	41,3	81,0	155,7	78,0	65,0	56,1	M12 x 76	1,7
730MT3012✖	80 x 32	44,5	47,6	84,8	155,7	84,3	63,5	56,1	M12 x 76	1,7
730MT3015✖	80 x 40	50,8	54,0	85,9	155,7	90,4	63,0	56,1	M12 x 76	1,7
730MT3020✖	80 x 50	63,5	66,7	88,9	155,7	103,9	69,9	56,1	M12 x 76	2,1
730MT4205✖	100 x 15	38,1	41,3	93,7	181,1	78,0	77,7	70,6	M12 x 76	2,2
730MT4207✖	100 x 20	38,1	41,3	93,7	181,1	78,0	77,7	70,6	M12 x 76	2,2
730MT4210✖	100 x 25	38,1	41,3	93,7	181,1	78,0	77,7	70,6	M12 x 76	2,2
730AT4212✖	100 x 32	44,5	47,6	99,6	181,1	84,3	76,2	70,6	M12 x 76	2,2
730AT4215✖	100 x 40	50,8	54,0	101,6	181,1	90,4	75,7	70,6	M12 x 76	2,3
730MT4220✖	100 x 50	63,5	66,7	101,6	181,1	103,1	82,6	70,6	M12 x 76	2,5
730MT4226✖	100 x 65	69,9	73,0	101,6	181,1	111,3	79,2	70,6	M12 x 76	2,8
730MT4230✖	100 x 80	88,9	92,1	104,9	181,1	130,3	84,1	70,6	M12 x 76	3,5
730MT5315✖	125 x 40	50,8	54,0	117,6	206,5	90,4	101,6	85,6	M16 x 121	3,5
730MT5320✖	125 x 50	63,5	66,7	117,6	206,5	103,1	98,6	85,6	M16 x 121	3,5
730MT5326✖	125 x 65	69,9	73,0	120,7	206,5	111,3	98,6	85,6	M16 x 121	4,0
730MT5330✖	125 x 80	88,9	92,1	127,0	206,5	130,3	103,1	85,6	M16 x 121	5,8
730MT6212✖	150 x 32	50,8	54,0	130,3	235,0	90,4	108,0	99,1	M16 x 121	3,5
730AT6215✖	150 x 40	50,8	54,0	130,3	235,0	90,4	102,6	99,1	M16 x 121	3,5
730AT6220✖	150 x 50	63,5	66,7	130,3	235,0	103,1	109,5	99,1	M16 x 121	3,7
730AT6226✖	150 x 65	69,9	73,0	130,3	235,0	111,3	106,2	99,1	M16 x 121	4,1
730AT6230✖	150 x 80	88,9	92,1	139,7	235,0	130,3	111,0	99,1	M16 x 121	4,8
730MT6312✖	150 x 32	50,8	54,0	130,3	235,0	90,4	108,0	99,1	M16 x 121	3,4
730AT6315✖	150 40	50,8	54,0	130,3	235,0	90,4	102,6	99,1	M16 x 121	3,4
730AT6320✖	150 x 50	63,5	66,7	130,3	235,0	103,1	109,5	99,1	M16 x 121	3,5
730AT6326✖	150 x 65	69,9	73,0	130,3	235,0	111,3	106,2	99,1	M16 x 121	4,0
730AT6330✖	150 x 80	88,9	92,1	139,7	235,0	130,3	111,0	99,1	M16 x 121	4,7
730AT8020✖	200 x 50	63,5	66,7	158,8	317,5	103,1	139,7	124,5	M20 x 121	5,5
730AT8026✖	200 x 65	69,9	73,0	158,8	317,5	111,3	130,0	124,5	M20 x 121	5,7
730AT8030✖	200 x 80	88,9	92,1	165,1	317,5	155,7	141,2	124,5	M20 x 121	6,1

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish

† Proper hole preparation is required for effective sealing and performance. Check the pipe seal surface within 15.9mm (5/8") of the hole to ensure it is free from conditions affecting proper gasket sealing. Remove any sharp or rough edges from the hole or upper housing contact area that might affect assembly, proper seating of the locating collar, or flow from the outlet. For crosses, ensure double outlet holes are aligned on opposite sides of the pipe. The use of threaded products other than steel pipe, such as dry pendent sprinklers, may not be compatible with the female threaded outlet on the Mechanical Tee. Always confirm compatibility by contacting Tyco Technical Services.

‡ Maximum pressures and end loads are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.

Threads are BSP. Some size outlets are available with NPT threads. Contact Tyco Technical Services for details.

For information on other alternative sizes, contact Tyco Technical Services

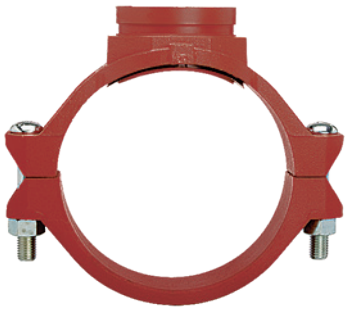
See page 9-32 for gasket information.

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Grooved Piping Products

Figure 730

Mechanical Tees Grooved

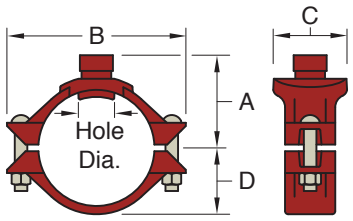


Run Sizes	DN50 thru DN200 (2" thru 8")
Branch Sizes	DN32 thru DN100 outlets (1-¼" thru 4")
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	20,7 bar (300 psi)
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1860**

The GRINNELL 730 Mechanical Tees & Crosses come with threaded or grooved outlets and can be used for any tee connection where a threaded or grooved outlet is needed. ■ It can be used in place of a tee, a cross connection, or a welded outlet where a threaded or grooved outlet is needed. ■ The Mechanical Tee is ideal for use in retrofit or equipment hookup installations as it can be positioned along the pipe at the proper location in the field, ensuring exact lineup of the branch outlet connection.

Issue 03, 04, 07
Cert No. 570, 669, 673

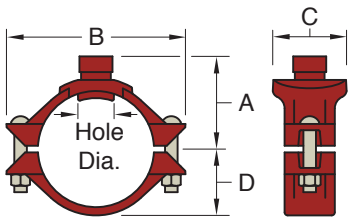
For detailed Listing and Approval information contact Tyco Fire Protection Products.



Part Number	Nominal Size Run x Branch DN	Hole Dia.†		Dimensions - mm				Bolt Size mm	Approx. Weight kg
		Min. mm	Max. mm	A	B	C	D		
730AG2012✖	50 x 32	44,5	47,6	70,6	124,0	84,3	40,4	M10 x 57	1,1
730AG2015✖	50 x 40	44,5	47,6	66,5	124,0	84,3	40,4	M10 x 57	1,1
730AG2512✖	65 x 32	50,8	54,0	76,2	133,4	90,4	46,0	M10 x 57	1,1
730AG2515✖	65 x 40	50,8	54,0	78,0	133,4	91,2	46,0	M10 x 57	1,1
730MG2520✖	65 x 50	50,8	54,0	81,0	133,4	101,6	46,0	M10 x 57	1,1
730MG2612✖	65 x 32	50,8	54,0	77,7	142,7	90,4	47,5	M10 x 57	1,1
730MG2615✖	65 x 40	50,8	54,0	79,5	142,7	90,4	47,5	M10 x 57	1,1
730MG2620✖	65 x 50	50,8	54,0	82,6	142,7	101,6	47,5	M10 x 57	1,1
730MG3012✖	80 x 32	44,5	47,6	84,8	155,7	84,3	56,1	M12 x 76	1,6
730MG3015✖	80 x 40	50,8	54,0	85,9	155,7	90,4	56,1	M12 x 76	1,6
730MG3020✖	80 x 50	63,5	66,7	88,9	155,7	103,9	56,1	M12 x 76	2,0
730AG4212✖	100 x 32	44,5	47,6	99,6	181,1	84,3	70,6	M12 x 76	2,2
730AG4215✖	100 x 40	50,8	54,0	101,6	181,1	90,4	70,6	M12 x 76	2,3
730MG4220✖	100 x 50	63,5	66,7	101,6	181,1	103,1	70,6	M12 x 76	2,4
730MG4225✖	100 x 65	69,9	73,0	101,6	181,1	111,3	70,6	M12 x 76	2,7
730MG4226✖	100 x 65	69,9	73,0	101,6	181,1	111,3	70,6	M12 x 76	2,7
730MG4230✖	100 x 80	88,9	92,1	104,9	181,1	130,3	70,6	M12 x 76	3,4
730MG5315✖	125 x 40	50,8	54,0	117,6	206,5	90,4	85,6	M16 x 121	3,5
730MG5320✖	125 x 50	63,5	66,7	117,6	206,5	103,1	85,6	M16 x 121	3,4
730MG5325✖	125 x 65	69,9	73,0	120,7	206,5	111,3	85,6	M16 x 121	3,9
730MG5326✖	125 x 65	69,9	73,0	120,7	206,5	111,3	85,6	M16 x 121	3,9
730MG5330✖	125 x 80	88,9	92,1	127,0	206,5	130,3	85,6	M16 x 121	5,6

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Figure 730 - Mechanical Tees Grooved



Part Number	Nominal Size Run x Branch DN	Hole Dia.†		Dimensions - mm				Bolt Size mm	Approx. Weight kg
		Min. mm	Max. mm	A	B	C	D		
730MG6212✖	150 x 32	50,8	54,0	130,3	235,0	90,4	99,1	M16 x 121	3,5
730AG6215✖	150 x 40	50,8	54,0	130,3	235,0	90,4	99,1	M16 x 121	3,4
730AG6220✖	150 x 50	63,5	66,7	130,3	235,0	103,1	99,1	M16 x 121	3,6
730AG6225✖	150 x 65	69,9	73,0	130,3	235,0	111,3	99,1	M16 x 121	4,0
730AG6226✖	150 x 65	69,9	73,0	130,3	235,0	111,3	99,1	M16 x 121	4,0
730AG6230✖	150 x 80	88,9	92,1	139,7	235,0	130,3	99,1	M16 x 121	4,6
730AG6242✖	150 x 100	114,3	117,5	136,7	235,0	155,7	99,1	M16 x 121	5,3
730MG6312✖	150 x 32	50,8	54,0	130,3	235,0	90,4	99,1	M16 x 121	3,5
730AG6315✖	150 x 40	50,8	54,0	130,3	235,0	90,4	99,1	M16 x 121	3,4
730AG6320✖	150 x 50	63,5	66,7	130,3	235,0	103,1	99,1	M16 x 121	3,6
730AG6325✖	150 x 65	69,9	73,0	130,3	235,0	111,3	99,1	M16 x 121	4,0
730AG6326✖	150 x 65	69,9	73,0	130,3	235,0	111,3	99,1	M16 x 121	4,0
730AG6330✖	150 x 80	88,9	92,1	139,7	235,0	130,3	99,1	M16 x 121	4,6
730AG6342✖	150 x 100	114,3	117,5	136,7	235,0	155,7	99,1	M16 x 121	5,3
730AG8020✖	200 x 50	63,5	66,7	158,8	317,5	103,1	124,5	M20 x 121	5,5
730AG8025✖	200 x 65	69,9	73,0	158,8	317,5	111,3	124,5	M20 x 121	5,6
730AG8026✖	200 x 65	69,9	73,0	158,8	317,5	111,3	124,5	M20 x 121	5,6
730AG8030✖	200 x 80	88,9	92,1	165,1	317,5	130,3	124,5	M20 x 121	6,0
730AG8042✖	200 x 100	114,3	117,5	162,1	317,5	155,7	124,5	M20 x 121	6,7

✖ = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish

†Proper hole preparation is required for effective sealing and performance. Check the pipe seal surface within 15.9mm (5/8") of the hole to ensure it is free from conditions affecting proper gasket sealing. Remove any sharp or rough edges from the hole or upper housing contact area that might affect assembly, proper seating of the locating collar, or flow from the outlet. For crosses, ensure double outlet holes are aligned on opposite sides of the pipe.

‡Maximum pressures and end loads are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ on other pipe materials and/or wall thickness. Contact Tyco Technical Services for details.

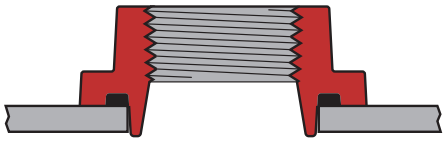
For information on other alternative sizes, contact Tyco Technical Services.

See page 9-32 for gasket information.

Grooved Piping Products

Figure 730 & 522

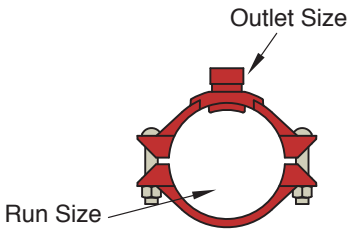
Replacement Gaskets



Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Grade "E" EPDM Gasket Temperature	-34°C to 110°C (-30°F to 230°F)
Tech Data Sheet	**TFP1895**

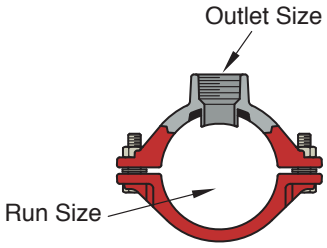
The gasket provides a compression type seal, which is designed to conform to the exterior curve (OD) of the pipe. This design is unique to the Figure 730 Mechanical Tee (threaded and grooved) and Figure 522 Sprinkler Outlet. ■ Note: When used in low temperature applications, use a petroleum-free silicone based lubricant, otherwise no lubricant is required on Mechanical Tee and Strap gaskets.

Figure 730 Gaskets



Run Size mm	Outlet Size mm	EPDM Grade E 730-Style	Nitrile Grade T 730-Style
50, 65, 80, 100	15, 20, 25	1EPDM730	1BUNA730
50, 80, 100	32	2EPDM730	2BUNA730
50	40	2EPDM730	2BUNA730
65, 80, 100, 150	40	3EPDM730	3BUNA730
65	32	3EPDM730	3BUNA730
150	32	3EPDM730	3BUNA730
65	50	3EPDM730	3BUNA730
80, 100, 125, 150, 200	50	4EPDM730	4BUNA730
100, 125	65	5EPDM730	5BUNA730
150, 200	65	6EPDM730	6BUNA730
100, 125	80	7EPDM730	7BUNA730
150, 200	80	8EPDM730	8BUNA730
150, 200	100	9EPDM730	9BUNA730

Figure 522 Gaskets



Run Size mm	Outlet Size mm	EPDM Grade E 522-Style
32	10	976-001
25, 32, 40	15, 20, 25	976-001
50	15, 20	976-001
65	15, 20	976-001
25	15, 20, 25	976-290
50	25	976-304
65	25	976-304

Corrosion Solutions

Corrosion in fire sprinkler systems leads to plugging problems, diminished sprinkler performance, water leak damage and reduced service life. The Model NG-1 nitrogen generator is at the heart of the Tyco corrosion solutions portfolio.

Return on Investment (ROI) for Tyco Corrosion Solutions

- Greatly reduces corrosion risks
- Extends the useful life of a water-based fire sprinkler system
- Minimizes risk of business interruption due to leaks

Corrosion Solutions

Model NG-1 100, NG-1 250, and NG-1 500

Wall-Mounted Nitrogen Generator

Air Compressor	Integral
Approvals	CE and FM Approved UL508A Listed Industrial Control Panel
Total System Capacity	NG-1 100 – 2555 L (675 Gal) NG-1 250 – 3596 L (950 Gal) NG-1 100 – 7571 L (2000 Gal)
Nitrogen Membrane	Capable of 98%+ Nitrogen Purity
Temperature Rating	5°C (40°F) to 40°C (105°F)
Power Supply	230 VAC/1 phase/50Hz (120 VAC/1phase/60Hz)
Tech Data Sheet	**TFP1251**

Mitigating Fire Sprinkler System Corrosion ■ Compatible with both new and existing fire sprinkler systems ■ Integral oil-less compressor ■ Fill-and-purge breathing method allows vent to be installed on riser ■ No nitrogen tank or refrigerated dryers required ■ Minimal footprint allowing for easy installation in riser room ■ Replacing oxygen in the system with nitrogen can stop the corrosion process and extend the service life of a sprinkler system

Nitrogen Generators – Includes Generator Cabinet and Integral Compressor									
Part Number	Model	Total System Capacity		Dimensions (mm)			Weight (kg)	Approval & Listings	
		Liter	Gallon	Width	Height	Depth		FM	CE
TNG0100E	NG-1 100	2555	675	622	927	235	57	√	√
TNG0250E	NG-1 250	3596	950	622	927	235	57	√	√
TNG0500E	NG-1 500	7571	2000	724	927	292	79	√	√

Accessories		
Description	Model	Part Number
Dry Air Vent	TAV-D	TAVD02
SMART Dry Air Vent – 230 VAC/50Hz	TSV-D	TSVD02E
Filter Replacement Kit	–	TNGFLTW
Optional Monitoring Equipment – Handheld Gas Analyzer	THGA	THGA01
Optional Monitoring Equipment – SMART Gas Analyzer	TSGA	TSGA01

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model NG-1 1150, NG-1 1500, NG-1 2000, and NG-1 3000

Stand-Alone Nitrogen Generator

Air Compressor	Separate
Approvals	CE and FM Approved UL508A Listed Industrial Control Panel
Total System Capacity	NG-1 1150 - 24605 L (6500 Gal) NG-1 1500 - 41640 L (11000 Gal) NG-1 2000 - 70030 L (18500 Gal) NG-1 3000 - 85172 L (22500 Gal)
Nitrogen Membrane	Capable of 98%+ Nitrogen Purity
Temperature Rating	5°C (40°F) to 40°C (105°F)
Power Supply	230 VAC/1 phase/50Hz (120 VAC/1phase/60Hz)
Tech Data Sheet	**TFP1253**

Mitigating Fire Sprinkler System Corrosion ■ Designed to support projects with larger system capacities ■ Compatible with both new and existing fire sprinkler systems ■ Paired with oil-lubricated oil compressor ■ Fill-and-purge breathing method allows vent to be installed on riser ■ No nitrogen tank or refrigerated dryers required ■ Designed on single skid for easy installation ■ Replacing oxygen in the system with nitrogen can stop the corrosion process and extend the service life of a sprinkler system

Nitrogen Generators - Generator Cabinet and Compressor Sold Separately												
Part Number	Model	Total System Capacity		Cabinet Dimensions (mm)						Weight (kg)	Approval & Listings	
				Without Bypass			With Bypass					
		Liter	Gallon	Width	Height	Depth	Width	Height	Depth		FM	CE
TNG1150EG	NG-1 1150	24605	6500	622	1334	216	826	1334	216	69	√	√
TNG1500EG	NG-1 1500	41640	11000	622	1334	216	826	1334	216	69	√	√
TNG2000EG	NG-1 2000	70030	18500	622	1930	318	813	1930	318	136	√	√
TNG3000EG	NG-1 3000	85172	22500	622	1930	318	813	1930	318	136	√	√

Accessories		
Description	Model	Part Number
Filter Replacement Kit	–	TNGFLTS
Dry Air Vent	TAV-D	TAVD02
SMART Dry Air Vent - 230 VAC/50Hz	TSV-D	TSVD02E
Optional Monitoring Equipment - Handheld Gas Analyzer	THGA	THGA01
Optional Monitoring Equipment - SMART Gas Analyzer	TSGA	TSGA01
Compressor - 230 VAC / Triple Phase / 50 Hz	For use with NG-1 1150	TNE502335S
Compressor - 400 VAC / Triple Phase / 50 Hz		TNE504035S
Compressor - 440 VAC / Triple Phase / 50 Hz		TNE504435S
Compressor - 500 VAC / Triple Phase / 50 Hz		TNE505035S
Compressor - 550 VAC / Triple Phase / 50 Hz		TNE505535S
Compressor - 230 VAC / Triple Phase / 50 Hz	For use with NG-1 1500 or NG-1 2000	TNE752335S
Compressor - 400 VAC / Triple Phase / 50 Hz		TNE754035S
Compressor - 500 VAC / Triple Phase / 50 Hz		TNE755035S
Compressor - 575 VAC / Triple Phase / 50 Hz		TNE755735S
Compressor - 690 VAC / Triple Phase / 50 Hz		TNE756935S
Compressor - 230 VAC / Triple Phase / 50 Hz	For use with NG-1 3000	TNE102335S
Compressor - 400 VAC / Triple Phase / 50 Hz		TNE104035S

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Corrosion Solutions

Model TILD

In-Line Corrosion Detector

Sizes	DN32 thru DN200 (1-¼" thru 8")
Approvals	UL Listed
Pipe Schedule	Schedule 10 or 40
Temperature Rating	-40°C (-40°F) to 49°C (120°F)
Service Pressure	12 bar (175 psi)
Tech Data Sheet	**TFP1261**

Mitigating Fire Sprinkler System Corrosion ■ Corrosion Detector - Installed In-Line for Real-Time Monitoring ■ Monitor locally with included Remote Test Station or remotely via the building monitoring system ■ Available in galvanized or black steel; schedule 10 or 40 ■ Roll-grooved ends for easy installation

Model TILD - In-Line Corrosion Detector				
Pipe Size	Pipe Material	Pipe Schedule	Part Number	Approval & Listings
				UL
DN32 (1-¼")	Black Steel	10	TILD1310B	√
		40	TILD1340B	√
	Galvanized	10	TILD1310G	√
		40	TILD1340G	√
DN40 (1-½")	Black Steel	10	TILD1510B	√
		40	TILD1540B	√
	Galvanized	10	TILD1510G	√
		40	TILD1540G	√
DN50 (2")	Black Steel	10	TILD2010B	√
		40	TILD2040B	√
	Galvanized	10	TILD2010G	√
		40	TILD2040G	√
DN65 (2-½")	Black Steel	10	TILD2510B	√
		40	TILD2540B	√
	Galvanized	10	TILD2510G	√
		40	TILD2540G	√
DN80 (3")	Black Steel	10	TILD3010B	√
		40	TILD3040B	√
	Galvanized	10	TILD3010G	√
		40	TILD3040G	√
DN100 (4")	Black Steel	10	TILD4010B	√
		40	TILD4040B	√
	Galvanized	10	TILD4010G	√
		40	TILD4040G	√
DN150 (6")	Black Steel	10	TILD6010B	√
		40	TILD6040B	√
	Galvanized	10	TILD6010G	√
		40	TILD6040G	√
DN200 (8")	Black Steel	10	TILD8010B	-
		40	TILD8040B	-
	Galvanized	10	TILD8010G	-
		40	TILD8040G	-

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

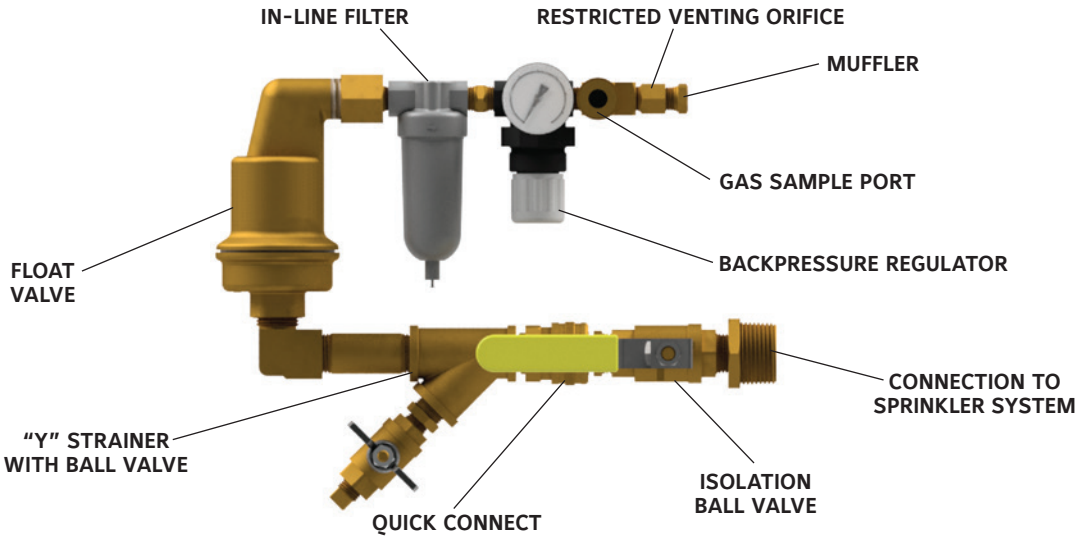
Model TAV-D

Manual Air Vent - Dry Systems

System Connection	1" NPT Male
Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1262**

Oxygen Removal Vent for Dry/Preaction Systems - Manual Shut-off ■ Designed for use with the NG-1 Nitrogen Generators ■ Can be installed directly on system riser ■ Nitrogen gas sampling port for use with THGA or TSGA Gas Analyzers ■ Includes failsafe back-pressure regulator ■ Automatic float shut-off in event of a system trip

Model TAV-D - Manual Air Vent - Dry Systems		
Description	Model	Part Number
Dry Air Vent	TAV-D	TAVD02
Filter Replacement Kit	TFLT	TVDFLT2
Filter Replacement Kit for Legacy PN TAVD01	TFLT	TVDFLT



Corrosion Solutions

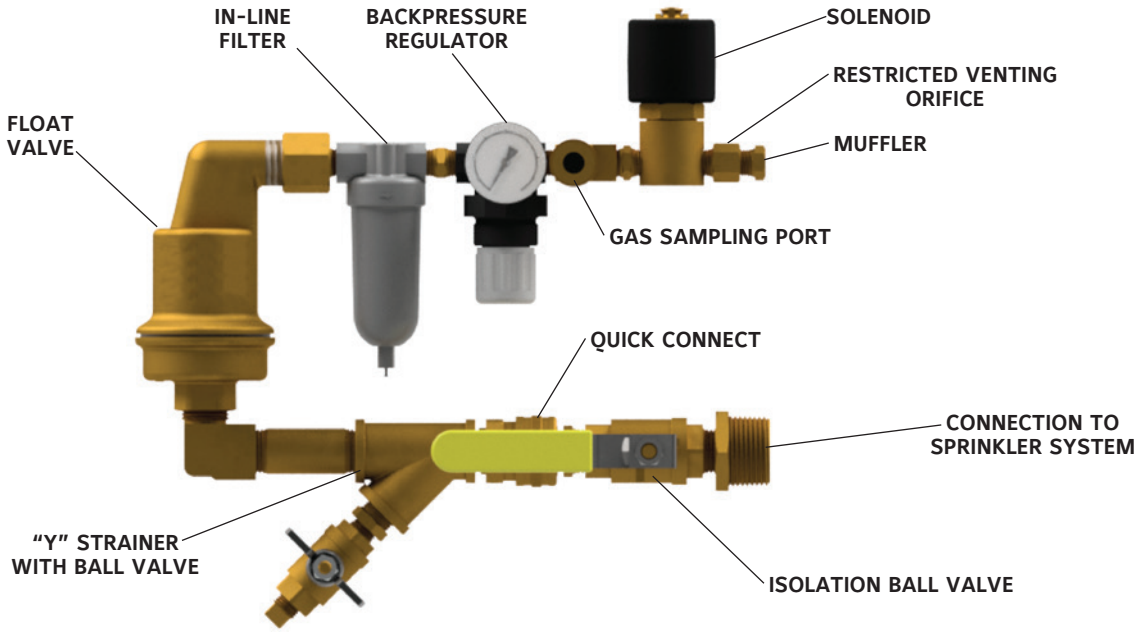
Model TSV-D

SMART Air Vent – Dry Systems

System Connection	1" NPT Male
Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Electrical Connection	230 VAC/50Hz (120 VAC/60Hz); <2 Amps
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1263**

Oxygen Removal Vent for Dry/Preaction Systems – Electronic Shut-off ■ Designed for use with the NG-1 Nitrogen Generators ■ Can be installed directly on system riser ■ Will automatically shut off after 14-day nitrogen fill-and-purge process ■ Includes failsafe back-pressure regulator ■ Automatic float shut-off in event of a system trip

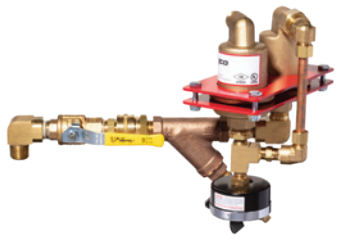
Model TSV-D – SMART Air Vent – Dry Systems		
Description	Model	Part Number
230 VAC/ 50 Hz	TSV-D	TSVD02E
Filter Replacement Kit for Legacy PN TSVD01	TFLT	TVDFLT
Replacement Filter Kit	TFLT	TVDFLT2



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TAV-W

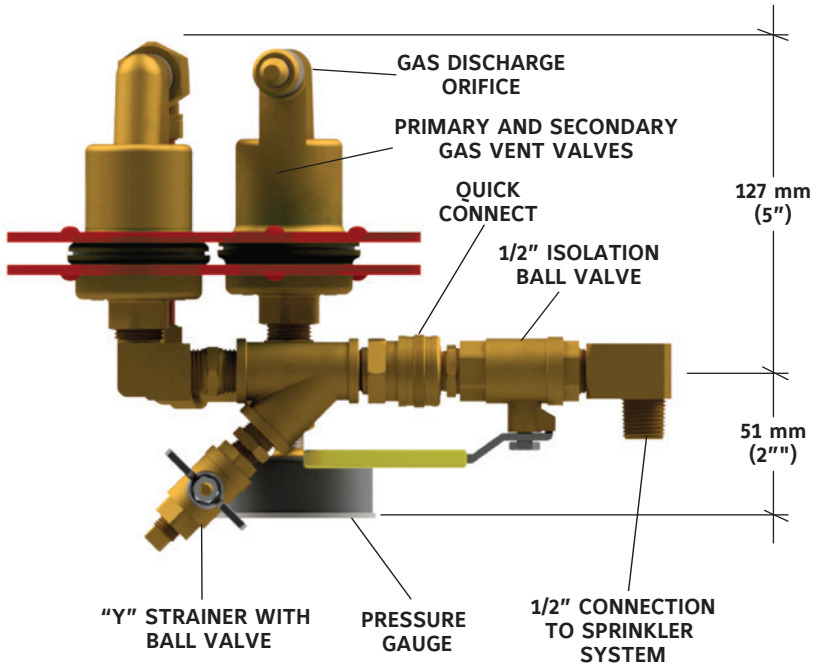
Automatic Air Vent – Wet Systems



System Connection	½" NPT Male
Approvals	UL Listed and FM Approved
Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1264**

Oxygen Removal Vent for Wet Systems ■ **Remove trapped air from wet fire sprinkler systems** ■ Redundant float valve design to eliminate risk of leaks – no need to plumb to drain ■ High-visibility pressure gauge easily seen from floor to confirm functionality ■ Can be upgraded for Wet Pipe Nitrogen Inerting

Model TAV-W – Automatic Air Vent – Wet Systems		
Description	Model	Part Number
Wet Air Vent	TAV-W	TAVW01



Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Corrosion Solutions

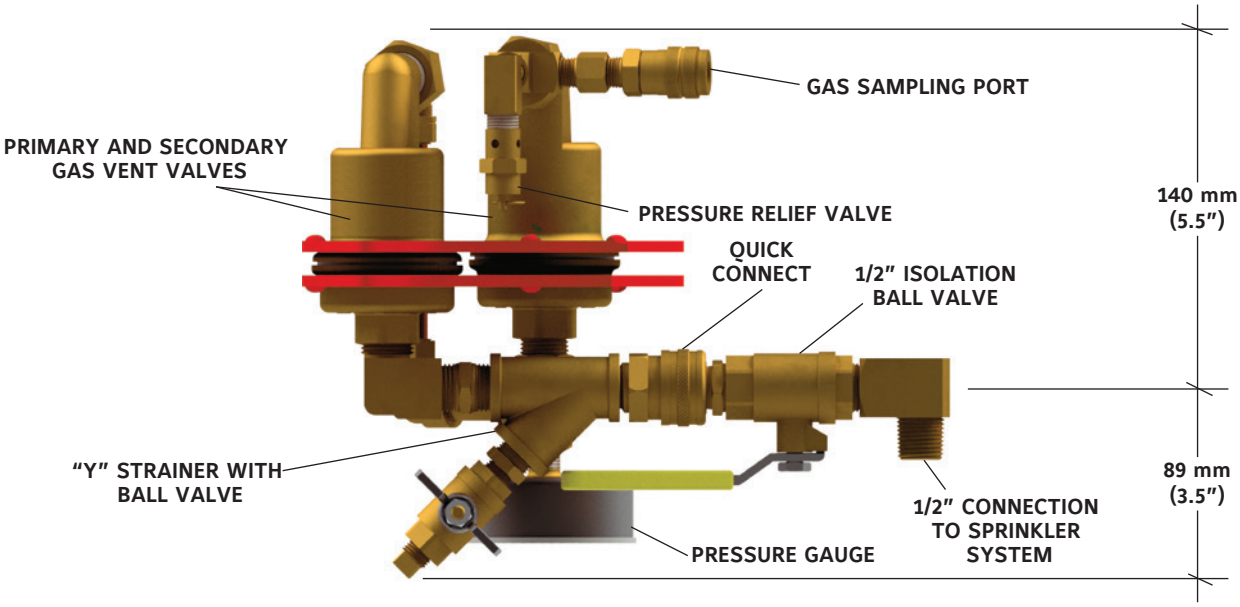
Model TAV-WN

Air Vent, Wet - Nitrogen

System Connection	½" NPT Male
Approvals	UL Listed and FM Approved
Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1265**

Oxygen Removal Vent for Wet Systems - Wet Pipe Nitrogen Inerting ■ **Remove trapped air from wet fire sprinkler systems** ■ Includes TNIP Nitrogen Inerting Port for Wet Pipe Nitrogen Inerting process ■ Redundant float valve design to eliminate risk of leaks - no need to plumb to drain ■ High-visibility pressure gauge easily seen from floor to confirm functionality ■ Can be used with TRIS Remote Inerting Station (sold separately) during WPNI process

Model TAV-WN - Air Vent - Wet - Nitrogen		
Description	Model	Part Number
Wet - Nitrogen Air Vent	TAV-WN	TAVWN01



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Model TNIP

Nitrogen Injection Port

System Connection	½" NPT Male (vent.) 1" NPT Male (Port)
Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1265**

Nitrogen Injection Port for use during Wet Pipe Nitrogen Inerting Process ■ **For use during the Wet Pipe Nitrogen Inerting Process** ■ Installed on riser on the system side of the main control valve ■ Also available with TAV-WN Automatic Air Vent

Model TNIP - Nitrogen Injection Port		
Description	Model	Part Number
Nitrogen Injection Port	TNIP	TNIP01

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Corrosion Solutions

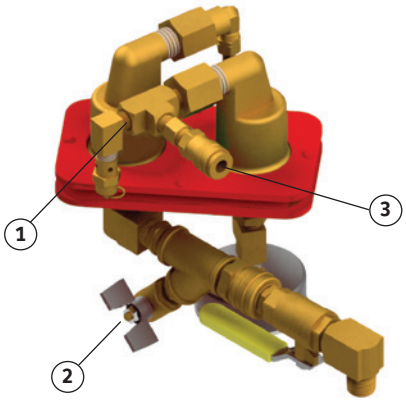
Model TRIS

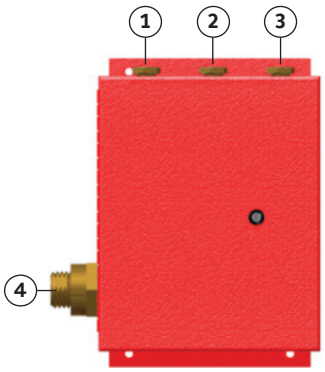
Remote Inerting Station

Temperature Rating	4.5°C (40°F) to 49°C (120°F)
Service Pressure	Up to 12 bar (175 psi)
Tech Data Sheet	**TFP1265**

Control Station for Remote Monitoring of TAV-WN Air Vent ■ For use during the Wet Pipe Nitrogen Inerting Process ■ Provides remote monitoring and control options for the TAV-WN Automatic Air Vent

Model TRIS - Remote Inerting Station		
Description	Model	Part Number
Remote Inerting Station	TRIS	TRIS01





TAV-WN/TRIS Connections	
Number	Description
1	Exhaust Gas Connection
2	Y-Strainer "Purge" Connection
3	Gas Sampling Port Connection
4	Nitrogen Gas/Water Exhaust Connection

NOTE: Y-Strainer "Purge" Connection will be exposed to system operating pressure TAV-WN/TRIS Connections

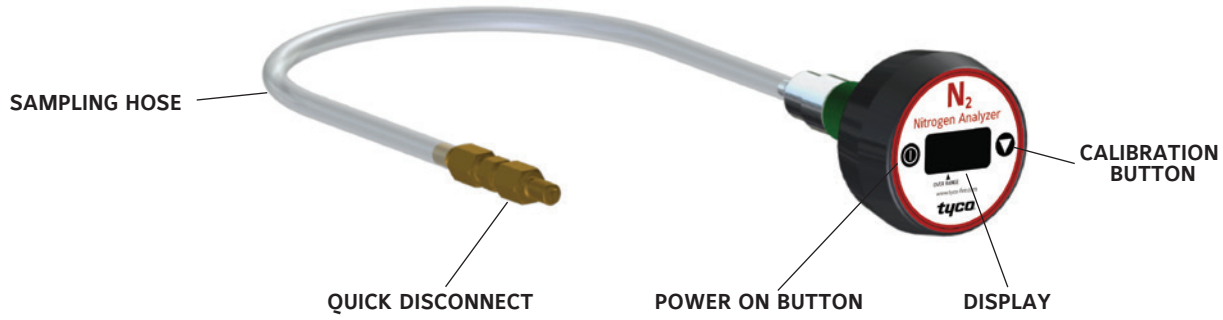
Model THGA

Handheld Gas Analyzer

Sensor Type	Galvanic Cell with temperature compensation
Operating Pressure Rating	Atmospheric pressure to 0,2 bar (3 psig)
Operating Temperature	15°C to 40°C (59°F to 104°F)
Measured Range	0.0% to 99.9% nitrogen
Response Time	<15 seconds for 90% step change
Tech Data Sheet	**TFP1267**

Handheld Gas Analyzer for use with Dry or Wet Pipe Nitrogen Inerting ■ **Displays nitrogen purity of the gas stream being sampled** ■ Lithium battery powered ■ One-touch calibration ■ Includes tubing and quick connect fitting compatible with TYCO Nitrogen products ■ Also available as part of TGSK Gas Sampling Kit

Model THGA - Handheld Gas Analyzer		
Description	Model	Part Number
Handheld Gas Analyzer	THGA	THGA01



Corrosion Solutions

Model TGSP

Gas Sampling Port

Material	All industrial brass components
Tech Data Sheet	**TFP1267**

Gas Sampling Port for Dry Pipe Nitrogen Inerting Monitoring ■ For use with THGA Handheld Gas Analyzer ■ Equipped with ½" isolation valve ■ ¼" quick connect socket ■ Also available as part of TGSK Gas Sampling Kit

Model TGSP – Gas Sampling Port		
Description	Model	Part Number
Gas Sampling Port	TGSP	TGSP01

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model TGSK

Gas Sampling Kit

Sensor Type	Galvanic Cell with temperature compensation
Operating Pressure Rating	Atmospheric pressure to 0,2 bar (3 psig)
Operating Temperature	15°C to 40°C (59°F to 104°F)
Measured Range	0.0% to 99.9% nitrogen
Response Time	<15 seconds for 90% step change
Tech Data Sheet	**TFP1267**

Gas Sampling Components to monitor Dry Pipe Nitrogen Inerting ■ Monitor the nitrogen concentration in a sprinkler system equipped with a TYCO Nitrogen Generator ■ Includes the THGA Handheld Gas Analyzer and TGSP Gas Sampling Port

Model TGSK - Gas Sampling Kit		
Description	Model	Part Number
Gas Sampling Kit	TGSK	TGSKP01

Corrosion Solutions

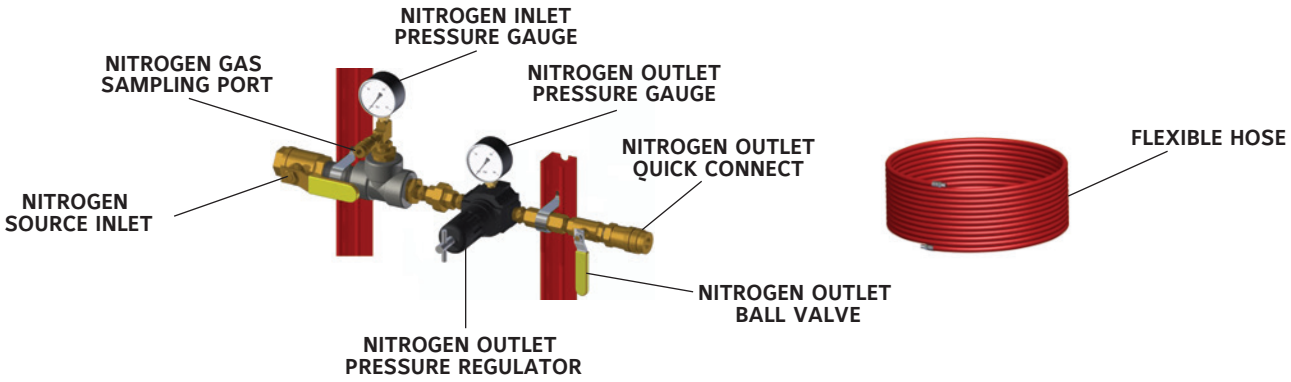
Model TNIM

Nitrogen Inerting Manifold

Hose Size	9,5mm x 7,6m (3/8" x 25 foot)
Hose Pressure Rating	Up to 21 bar (300 psi)
Nitrogen/Air Connection	Inlet: 1/2" NPT Female Outlet: 1/4" Quick Disconnect
Tech Data Sheet	**TFP1268**

Inerting Manifold for the Wet Pipe Nitrogen Inerting Process ■ For use with TNIP Nitrogen Inerting Port ■ Includes gas sampling port to verify nitrogen concentration at the inlet supply ■ Single pressure regulator to regulate nitrogen delivery pressure to the discharge connection

Model TNIM - Nitrogen Inerting Manifold		
Description	Model	Part Number
Nitrogen Inerting Manifold	TNIM	TNIM01



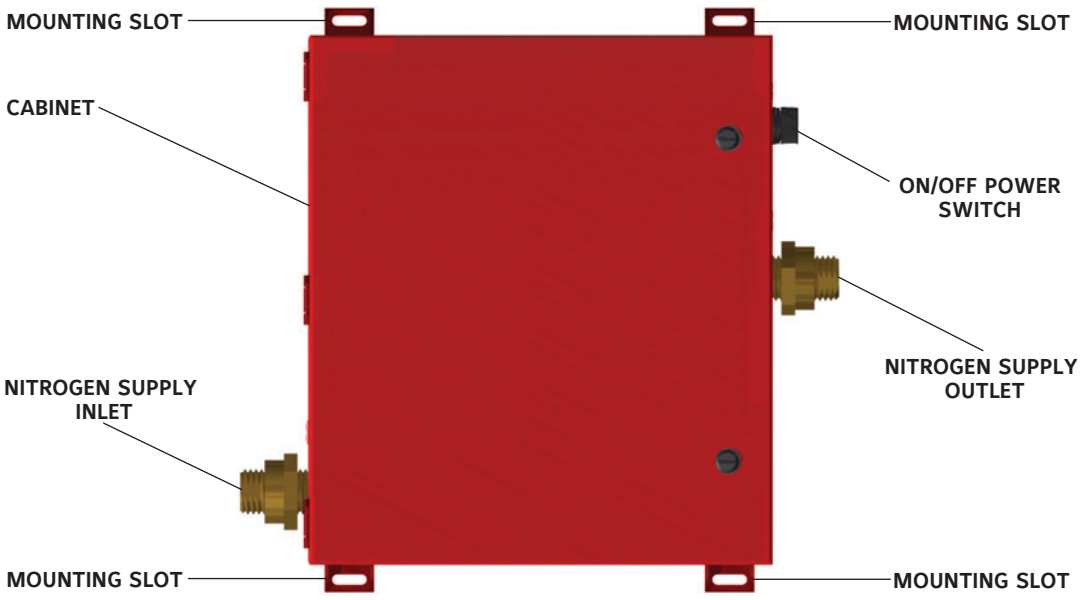
Model TNIC

Nitrogen Interface Controller

Power Supply	230 VAC/Single Phase/50 Hz - Dedicated Circuit (120 VAC/Single Phase/60 Hz -Dedicated Circuit)
Nitrogen/Air Connection	Inlet: ½" NPT Female Outlet: ½" NPT Female
Tech Data Sheet	**TFP1269**

Interface Controller for Dry Pipe Inerting Process ■ Use with house/plant nitrogen source for controlling oxygen corrosion in dry/preaction systems ■ Can be used with TYCO NG-1 Nitrogen Generators to control multiple systems operating at different pressures

Model TNIC - Nitrogen Interface Controller		
Description	Model	Part Number
Nitrogen Interface Controller	TNIC	TNIC01



Corrosion Solutions

Model TSGA

SMART Gas Analyzer

Sensor Type	Zirconium Dioxide
Electrical Connections	120 VAC, 60 Hz/0.5 A 230 VAC, 50 Hz/0.5 A 24 VDC/2 A
Temperature Range	5°C to 40°C (40°F to 105°F)
Output Display	$\%O_2$ or $\%N_2$
Signal Output	0 VDC to 5 VDC linear output, 4 mA to 20 mA linear output
Percentage of O_2 Contact Closure Level	1%, 3%, or 5%
Tech Data Sheet	**TFP1270**

Electronic Gas Analyzer for use with Dry or Preaction Systems ■ Continuous real-time monitoring of Nitrogen/Oxygen concentration levels ■ Can be monitored by building information management or fire alarm systems ■ Pair with either TAV-D Manual Air Vent or TSV-D Smart Air Vent

Model TSGA – SMART Gas Analyzer		
Description	Model	Part Number
SMART Gas Analyzer	TSGA	TSGA01

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

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