



Sprinkler Application Chart

DESKTOP VERSION



Standard Coverage

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass
BB = Bright Brass
BI = Black
C = Chrome Plated
GW = Grey White (RAL 9002)
L = Lead Coating
JB = Jet Black (RAL 9005)
SS = Stainless Steel
W = Wax Coating
Wh = Signal White (RAL 9003)
WOL = Wax Coating over Lead
X = Custom Color

(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-L	TY3111	Upright	SR	80.6	5.6	Solder	1/2"	TFP110	53-111	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY3211	Pendent	SR	80.6	5.6	Solder	1/2"	TFP110	53-112	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-L	TY3311	Horizontal Sidewall	SR	80.6	5.6	Solder	1/2"	TFP120	53-113	165, 212, 280, 200, 286 Open	12.1	175	B, C, W, L, WOL	UL, C-UL, FM	W9		
TY-L	TY4111	Upright	SR	115.2	8.0	Solder	3/4"	TFP110	53-101	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY4211	Pendent	SR	115.2	8.0	Solder	3/4"	TFP110	53-102	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-L	TY4811	Upright	SR	115.2	8.0	Solder	1/2"	TFP110	53-106	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY4911	Pendent	SR	115.2	8.0	Solder	1/2"	TFP110	53-107	165, 212, 280	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-FRL	TY1121	Upright	QR	40.3	2.8	Solder	1/2"	TFP130	58-973	165, 212	12.1	175	B, C	UL, C-UL, NYC	W9		
TY-FRL	TY1221	Pendent	QR	40.3	2.8	Solder	1/2"	TFP130	58-981	165, 212	12.1	175	B, C	UL, C-UL, NYC	W9	W12	YES
TY-FRL	TY3121	Upright	QR	80.6	5.6	Solder	1/2"	TFP130	58-974	165, 212	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB	W9		
TY-FRL	TY3221	Pendent	QR	80.6	5.6	Solder	1/2"	TFP130	58-982	165, 212	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB	W9	W12	YES
TY-FRL	TY3321	Horizontal Sidewall	QR	80.6	5.6	Solder	1/2"	TFP140	58-946	165, 212	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4121	Upright	QR	115.2	8.0	Solder	3/4"	TFP130	58-174	165, 212	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4221	Pendent	QR	115.2	8.0	Solder	3/4"	TFP130	58-172	165, 212	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-B	TY1151	Upright	SR	40.3	2.8	5 mm Bulb	1/2"	TFP151	57-530	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY1251	Pendent	SR	40.3	2.8	5 mm Bulb	1/2"	TFP151	57-531	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY315	Upright	SR	80.6	5.6	5 mm Bulb	1/2"	TFP152	77-570	135, 155, 175, 200, 286, 360, Open	17.2	250	B, C, SW, W	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-B	TY325	Pendent	SR	80.6	5.6	5 mm Bulb	1/2"	TFP152	77-571	135, 155, 175, 200, 286, 360, Open	17.2	250	B, C, SW, W	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-B	TY3451	Vertical Sidewall	SR	80.6	5.6	5 mm Bulb	1/2"	TFP161	57-575	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC	W6		
TY-B	TY3351	Horizontal Sidewall	SR	80.6	5.6	5 mm Bulb	1/2"	TFP161	57-578	135, 155, 175, 200, 286, 360, Open	17.2	250	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC	W6	W7	YES
TY-B	TY4851	Upright	SR	115.2	8.0	5 mm Bulb	1/2"	TFP151	57-560	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW	UL, C-UL, FM, LPCB, NYC, VdS	W6		

(continued on next page)

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tyco®

STANDARD
COVERAGE



PENDENT

MODEL
TY-B

DATASHEET
TFP152



HORIZONTAL SIDEWALL

MODEL
TY-FRL

DATASHEET
TFP140



CONCEALED PENDENT

MODEL
RFII

DATASHEET
TFP181

Standard Coverage

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass

BB = Bright Brass

BI = Black

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GW = Grey White (RAL 9002)

L = Lead Coating

JB = Jet Black (RAL 9005)

SS = Stainless Steel

W = Wax Coating

Wh = Signal White (RAL 9003)

WOL = Wax Coating over Lead

X = Custom Color

(3) Response Legend: **SR** = Standard Response
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(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-B	TY4951	Pendent	SR	115.2	8.0	5 mm Bulb	1/2"	TFP151	57-561	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4151	Upright	SR	115.2	8.0	5 mm Bulb	3/4"	TFP151	57-590	135, 155, 175, 200, 286, 360, Open	12.1	175	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4251	Pendent	SR	115.2	8.0	5 mm Bulb	3/4"	TFP151	57-591	135, 155, 175, 200, 286, 360, Open	12.1	175	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6	W7	YES
TY-FRB	TY1131	Upright	QR	40.3	2.8	3 mm Bulb	1/2"	TFP171	57-330	135, 155, 175, 200, 286	12.1	175	B, C, SW, JB	UL, C-UL, FM, NYC	W6		
TY-FRB	TY1231	Pendent	QR	40.3	2.8	3 mm Bulb	1/2"	TFP171	57-331	135, 155, 175, 200, 286	12.1	175	B, C, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY2131	Upright	QR	60.5	4.2	3 mm Bulb	1/2"	TFP171	57-340	135, 155, 175, 200, 286	12.1	175	B, C, SW, JB	UL, C-UL	W6		
TY-FRB	TY2231	Pendent	QR	60.5	4.2	3 mm Bulb	1/2"	TFP171	57-341	135, 155, 175, 200, 286	12.1	175	B, C, SW, JB	UL, C-UL	W6	W7	YES
TY-FRB	TY313	Upright	QR	80.6	5.6	3 mm Bulb	1/2"	TFP172	77-370	135, 155, 175, 200, 286	17.2	250	B, C, SW	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-FRB	TY323	Pendent	QR	80.6	5.6	3 mm Bulb	1/2"	TFP172	77-371	135, 155, 175, 200, 286	17.2	250	B, C, SW	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-FRB	TY3431	Vertical Sidewall	QR	80.6	5.6	3 mm Bulb	1/2"	TFP176	57-375	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB	W6		
TY-FRB	TY3331	Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	1/2"	TFP176	57-378	135, 155, 175, 200, 286	17.2	250	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB	W6	W7	YES
TY-FRB	TY4831	Upright	QR	115.2	8.0	3 mm Bulb	1/2"	TFP171	57-360	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY4931	Pendent	QR	115.2	8.0	3 mm Bulb	1/2"	TFP171	57-361	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY4131	Upright	QR	115.2	8.0	3 mm Bulb	3/4"	TFP171	57-390	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB, VdS	W6		
TY-FRB	TY4231	Pendent	QR	115.2	8.0	3 mm Bulb	3/4"	TFP171	57-391	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB, VdS	W6	W7	YES
RFII	TY3531	Concealed Pendent	QR	80.6	5.6	3 mm Bulb	1/2"	TFP181	51-792	155, 200	12.1	175	B, C, GW, SW, JB	UL, C-UL, NYC, VdS, LPCB	RFII		
RFII	TY3551	Concealed Pendent	SR	80.6	5.6	5 mm Bulb	1/2"	TFP181	51-790	155, 200	12.1	175	B, C, GW, SW, JB	UL, C-UL, FM, NYC, LPCB	RFII		
ILLUSION	TY5521	Concealed Pendent	QR	161.3	11.2	Solder	3/4"	TFP184	50-711	160, 212	12.1	175	B, C, GW, SW	UL, C-UL	W18		
TY-QRF	TY3261	Flush Pendent	QR	80.6	5.6	Solder	1/2"	TFP190	53-261	162	12.1	175	C, SW	UL, ULC	4947, 4948		



UPRIGHT

MODEL
EC25

DATASHEET
TFP213



PENDENT

MODEL
EC-14

DATASHEET
TFP220



HORIZONTAL SIDEWALL

MODEL
SW-20

DATASHEET
TFP230

Extended Coverage

Notes

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Wh = Signal White (RAL 9003)

WOL = Wax Coating over Lead

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(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
EC-25	TY9128	Upright	QR/SR	362.9	25.2	Solder	1"	TFP213	58-450	165, 212	12.1	175	B	UL, C-UL, FM, NYC	W1		
EC-14	TY6137	Upright	QR/SR	201.6	14.0	3 mm Bulb	3/4"	TFP220	51-896	135, 155, 175, 200, 286, Open	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3		
EC-14	TY6237	Pendent	QR/SR	201.6	14.0	3 mm Bulb	3/4"	TFP220	51-895	135, 155, 175, 200, 286, Open	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3	W22	YES
EC-11	TY5137	Upright	QR/SR	161.3	11.2	3 mm Bulb	3/4"	TFP220	51-894	135, 155, 175, 200, 286, Open	12.1	175	B, C, SW, L, JB	UL, C-UL, NYC	W3		
EC-11	TY5237	Pendent	QR/SR	161.3	11.2	3 mm Bulb	3/4"	TFP220	51-893	135, 155, 175, 200, 286, Open	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3	W22	YES
EC-8	TY4232	Pendent	QR/SR	115.2	8.0	3 mm Bulb	3/4"	TFP223	50-801	135, 155	12.1	175	B, C, SW	UL, C-UL, FM, NYC	W3	W23	YES
EC-5	TY3232	Pendent	QR	80.6	5.6	3 mm Bulb	1/2"	TFP228	51-051	135, 155	12.1	175	B, C, SW	UL, C-UL, FM, NYC	W6	W7	YES
EC-5	TY3302	Horizontal Sidewall	QR/SR	80.6	5.6	3 mm Bulb	1/2"	TFP298	51-053	135, 155, 200	12.1	175	B, C, SW	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY3332	Horizontal Sidewall	QR/SR	80.6	5.6	3 mm Bulb	1/2"	TFP296	57-376	135, 155, 175	17.2	250	B, C, PW, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY4332	Horizontal Sidewall	QR/SR	115.2	8.0	3 mm Bulb	3/4"	TFP296	57-396	135, 155, 175	17.2	250	B, C, PW, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
SW-20 ECOH	TY5332	Horizontal Sidewall	SR	161.3	11.2	3 mm Bulb	3/4"	TFP230	51-072	155, 200	12.1	175	B, C, SW	UL, C-UL, NYC	W3		
SW-24 ECOH	TY5337	Horizontal Sidewall	SR	161.3	11.2	3 mm Bulb	3/4"	TFP230	51-073	200	12.1	175	B, C, SW	UL, C-ULL, NYC	W3		
TY-FRL	TY3322	Horizontal Sidewall	QR/SR	80.6	5.6	Solder	1/2"	TFP280	58-970	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4322	Horizontal Sidewall	QR/SR	115.2	8.0	Solder	3/4"	TFP280	58-170	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
CHEC	TY4332	Concealed Horizontal Sidewall	QR	115.2	8.0	3 mm Bulb	3/4"	TFP265	51-396	155	12.1	175	C, SW	UL, C-UL, FM, NYC	W7		
ELOC	TY5522	Concealed Pendent	QR/SR	161.3	11.2	Solder	3/4"	TFP250	50-701	160, 212	12.1	175	B, C, GW, SW	UL, C-UL, NYC	W18		
RFI	TY3532	Concealed Pendent	QR	80.6	5.6	3 mm Bulb	1/2"	TFP260	51-794	155, 200	12.1	175	B, C, GW, SW, JB	UL, C-UL, NYC	RFI		



PENDENT

MODEL	DATASHEET
ESFR-25	TFP312



DRY PENDENT

MODEL	DATASHEET
ESFR-17	TFP320



UPRIGHT

MODEL	DATASHEET
ELO-231FRB	TFP344

Storage

Notes

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(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
ESFR-25	TY9226	ESFR Pendent	FR	362.9	25.2	Solder	1"	TFP312	58-441	165, 212	12.1	175	B	UL, C-UL, FM, NYC, LPCB, VdS, CE	W1		
EC-25	TY9128	Upright	SR	362.9	25.2	Solder	1"	TFP213	58-450	165, 212	12.1	175	B	UL, C-UL, FM, NYC	W1		
ESFR-17	TY7126	ESFR Upright	FR	241.9	16.8	Solder	3/4"	TFP316	58-477	165, 212	12.1	175	B	FM, CE	W21		
ESFR-17	TY7223	ESFR Pendent	FR	241.9	16.8	Solder	3/4"	TFP317	58-457	165, 212	12.1	175	B	UL, C-UL, FM	W35		
ESFR-17	TY7229	ESFR Dry-Type Pendent	FR	241.9	16.8	Solder	1-1/4"	TFP320	61-44X	165, 212	12.1	175	B	UL, FM	W26		
ESFR-14	TY6236	ESFR Pendent	FR	201.6	14.0	3 mm Bulb	3/4"	TFP319	58-449	155, 200	12.1	175	B	UL, C-UL, FM	W34		
ESFR-1	TY6226	ESFR Pendent	FR	201.6	14.0	Solder	3/4"	TFP318	58-440	155, 200	12.1	175	B	UL, C-UL, FM, NYC, LPCB, VdS	W2		
Ultra K17	TY7153	Upright	SR	241.9	16.8	5 mm Bulb	3/4"	TFP330	51-887	155, 200, 286	12.1	175	B	UL, C-UL, FM, NYC	W8		
K17-231	TY7151	Upright	SR	241.9	16.8	5 mm Bulb	3/4"	TFP332	51-888	155, 200, 286	12.1	175	B	UL, C-UL, FM, NYC	W8		
K17-231	TY7251	Pendent	SR	241.9	16.8	5 mm Bulb	3/4"	TFP332	51-889	155, 200, 286	12.1	175	B	UL, C-UL, NYC	W8		
LD	TY5153	Large Drop Upright	SR	161.3	11.2	5 mm Bulb	3/4"	TFP335	50-400	165, 212, 286	12.1	175	B	UL, C-UL, NYC	W3		
ELO-231	TY5811	Upright	SR	161.3	11.2	Solder	1/2"	TFP340	50-210	165, 212, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5111	Upright	SR	161.3	11.2	Solder	3/4"	TFP340	50-110	165, 212, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5211	Pendent	SR	161.3	11.2	Solder	3/4"	TFP340	50-112	155, 200, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5851	Upright	SR	161.3	11.2	5 mm Bulb	1/2"	TFP342	50-501	155, 200, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5151	Upright	SR	161.3	11.2	5 mm Bulb	3/4"	TFP342	50-510	155, 200, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5251	Pendent	SR	161.3	11.2	5 mm Bulb	3/4"	TFP342	50-512	155, 200, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231FRB	TY5131	Upright	QR	161.3	11.2	3 mm Bulb	3/4"	TFP344	50-500	155, 200, 286	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB, VdS	W3		
ELO-231FRB	TY5231	Pendent	QR	161.3	11.2	3 mm Bulb	3/4"	TFP344	50-502	165, 212, 280	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB, VdS	W3		
TY-L	TY3113	Intermediate Level Upright	SR	80.6	5.6	Solder	1/2"	TFP350	53-253	165, 212, 280	12.1	175	B	UL, C-UL, FM	W9		
TY-L	TY3211	Intermediate Level Pendent	SR	80.6	5.6	Solder	1/2"	TFP350	53-112	165, 212, 280	12.1	175	B	UL, C-UL, FM	W9		
TY-L	TY4113	Intermediate Level Upright	SR	115.2	8.0	Solder	3/4"	TFP350	52-153	165, 212, 280	12.1	175	B	UL, C-UL, FM	W9		
TY-L	TY4211	Intermediate Level Pendent	SR	115.2	8.0	Solder	3/4"	TFP350	53-102	74, 100, 138	12.1	175	B	UL, C-UL, FM	W9		

(continued on next page)



UPRIGHT

MODEL
ESFR-17

DATASHEET
TFP316



PENDENT

MODEL
ESFR-14

DATASHEET
TFP319



INTERMEDIATE UPRIGHT

MODEL
TY-FRL

DATASHEET
TFP355

Storage

Notes

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BB = Bright Brass
BI = Black
C = Chrome Plated
GW = Grey White (RAL 9002)
L = Lead Coating
JB = Jet Black (RAL 9005)
SS = Stainless Steel
W = Wax Coating
Wh = Signal White (RAL 9003)
WOL = Wax Coating over Lead
X = Custom Color

(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-FRL	TY3123	Intermediate Level Upright	QR	80.6	5.6	Solder	1/2"	TFP355	58-986	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY3221	Intermediate Level Pendant	QR	80.6	5.6	Solder	1/2"	TFP355	58-982	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4123	Intermediate Level Upright	QR	115.2	8.0	Solder	3/4"	TFP355	58-153	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4221	Intermediate Level Pendant	QR	115.2	8.0	Solder	3/4"	TFP355	58-172	165	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-B	TY3153	Intermediate Level Upright	SR	80.6	5.6	5 mm Bulb	1/2"	TFP351	57-533	135, 155, 175, 200, 286, 360	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
TY-B	TY3251	Intermediate Level Pendant	SR	80.6	5.6	5 mm Bulb	1/2"	TFP351	57-571	135, 155, 175, 200, 286, 360	12.1	175	B, L, W, WOL	UL, C-UL, FM, NYC	W6		
TY-B	TY315	Intermediate Level Upright	SR	80.6	5.6	5 mm Bulb	1/2"	TFP352	77-570	135, 155, 175, 200, 286, 360	17.2	250	B	UL, C-UL, FM	W6		
TY-B	TY325	Intermediate Level Pendant	SR	80.6	5.6	5 mm Bulb	1/2"	TFP352	77-571	135, 155, 175, 200, 286, 360	17.2	250	B	UL, C-UL, FM	W6		
TY-B	TY4153	Intermediate Level Upright	SR	115.2	8.0	5 mm Bulb	3/4"	TFP351	57-543	135, 155, 175, 200, 286, 360	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
TY-B	TY4251	Intermediate Level Pendant	SR	115.2	8.0	5 mm Bulb	3/4"	TFP351	57-591	135, 155, 175, 200, 286, 360	12.1	175	B, L, W, WOL	UL, C-UL, FM, NYC	W6		
TY-FRB	TY3133	Intermediate Level Upright	QR	80.6	5.6	3 mm Bulb	1/2"	TFP356	57-333	135, 155, 175, 200, 286	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY3231	Intermediate Level Pendant	QR	80.6	5.6	3 mm Bulb	1/2"	TFP356	57-371	135, 155, 175, 200, 286	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY313	Intermediate Level Upright	QR	80.6	5.6	3 mm Bulb	1/2"	TFP357	77-370	135, 155, 175, 200, 286	17.2	250	B	UL, C-UL, FM	W6		
TY-FRB	TY323	Intermediate Level Pendant	QR	80.6	5.6	3 mm Bulb	1/2"	TFP357	77-371	135, 155, 175, 200, 286	17.2	250	B	UL, C-UL, FM	W6		
TY-FRB	TY4133	Intermediate Level Upright	QR	115.2	8.0	3 mm Bulb	3/4"	TFP356	57-343	135, 155, 175, 200, 286	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY4231	Intermediate Level Pendant	QR	115.2	8.0	3 mm Bulb	3/4"	TFP356	57-391	135, 155, 175, 200, 286	12.1	175	B, L	UL, C-UL, FM, NYC	W6		
ELO-231	TY5811	Intermediate Level Upright	SR	161.3	11.2	Solder	1/2"	TFP340	50-210	165, 212, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5111	Intermediate Level Upright	SR	161.3	11.2	Solder	3/4"	TFP340	50-110	165, 212, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5211	Intermediate Level Pendant	SR	161.3	11.2	Solder	3/4"	TFP340	50-112	165, 212, 286	12.1	175	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5851	Intermediate Level Upright	SR	161.3	11.2	5 mm Bulb	1/2"	TFP342	50-501	155, 200, 286	12.1	175	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5151	Intermediate Level Upright	SR	161.3	11.2	5 mm Bulb	3/4"	TFP342	50-510	155, 200, 286	12.1	175	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5251	Intermediate Level Pendant	SR	161.3	11.2	5 mm Bulb	3/4"	TFP342	50-512	155, 200, 286	12.1	175	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231 FRB	TY5131	Intermediate Level Upright	QR	161.3	11.2	3 mm Bulb	3/4"	TFP344	50-500	155, 200, 286	12.1	175	B, C	UL, C-UL, FM, NYC	W3		
ELO-231 FRB	TY5231	Intermediate Level Pendant	QR	161.3	11.2	3 mm Bulb	3/4"	TFP344	50-502	155, 200, 286	12.1	175	B, C	UL, C-UL, FM, NYC	W3		



FLAT PLATE CONCEALED PENDENT

MODEL
LFII

DATASHEET
TFP442



PENDENT

MODEL
LFII

DATASHEET
TFP408



HORIZONTAL SIDEWALL

MODEL
LFII

DATASHEET
TFP417

Residential

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass
BB = Bright Brass
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GW = Grey White (RAL 9002)
L = Lead Coating
JB = Jet Black (RAL 9005)
SS = Stainless Steel
W = Wax Coating
Wh = Signal White (RAL 9003)
WOL = Wax Coating over Lead
X = Custom Color

(3) Response Legend: **SR** = Standard Response
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(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
LFII	TY1234	Pendent	FR	43.2	3.0	3 mm Bulb	1/2"	TFP402	51-010	155, 175	12.1	175	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY2234	Pendent	FR	70.6	4.9	3 mm Bulb	1/2"	TFP400	51-201	155, 175	12.1	175	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY3934	Pendent	FR	83.5	5.8	3 mm Bulb	1/2"	TFP401	51-058	155, 175	12.1	175	B, C, SW, JB	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY4234	NFPA 13 Opt. - Pendent/Concealed	FR	99.4	6.9	3 mm Bulb	3/4"	TFP408	51-069	155, 175	12.1	175	B, C, SW	UL, C-UL, FM, NYC, NSF/ANSI 61	W6	W7	YES
LFII	TY1334	Horizontal Sidewall	FR	60.5	4.2	3 mm Bulb	1/2"	TFP410	51-211	155, 175	12.1	175	B, C, SW	UL, C-UL, NYC, NSF/ANSI 61	W6	W7	YES
LFII	TY2334	Horizontal Sidewall	FR	63.4	4.4	3 mm Bulb	1/2"	TFP412	51-215	155, 175	12.1	175	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY3334	Horizontal Sidewall	FR	80.6	5.6	3 mm Bulb	1/2"	TFP415	51-524	155, 175	12.1	175	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY4334	Horizontal Sidewall	FR	83.5	5.8	3 mm Bulb	1/2"	TFP417	51-534	155, 175	12.1	175	B, C, SW	UL, C-UL, FM, NSF/ANSI 61	W6	W7	YES
LFII	TY3596	Flat Plate Concealed Pendent	FR	70.6	4.9	Solder	1/2"	TFP442	51-112	160	12.1	175	B, C, GW, SW, JB +	UL, ULC, NYC, NSF/ANSI 61	W18		
LFII	TY2234	Domed-Plate Concealed Pendent	FR	70.6	4.9	3 mm Bulb	1/2"	TFP450	51-873	155	12.1	175	C, SW	UL, C-UL, NYC	W7		
LFII	TY2284	Flush Pendent	FR	60.5	4.2	Solder	1/2"	TFP420	51-123	162	12.1	175	AB, C, JB, SW	UL, C-UL	4947, 4948		
LFII	TY2384	Flush Horizontal Sidewall	FR	60.5	4.2	Solder	1/2"	TFP425	51-124	162	12.1	175	C, JB, SW	UL, C-UL	4949, 4950		
LFII	TY2235	Recessed Pendent, Dry Type	FR	70.6	4.9	3 mm Bulb	1"	TFP460	63-10X	155, 175	12.1	175	B, C, SW	UL, NSF/ANSI 61	W7	W7	YES
LFII	TY2335	Horizontal Sidewall, Dry Type	FR	63.4	4.4	3 mm Bulb	1"	TFP461	63-1X1	155	12.1	175	B, C, SW	UL, NSF/ANSI 61	W6	W7	YES

Flat-Plate Colors / Finishes

Ivory (RAL1015)
P/N 56-202-0-135

Grey White (RAL9002)
P/N 56-202-5-135

Black (RAL9005)
P/N 56-202-7-135

Brushed Chrome
P/N 56-202-9-135

Beige (RAL1001)
P/N 56-202-2-135

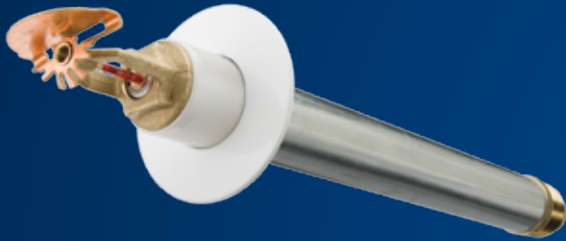
Brown (RAL8028)
P/N 56-202-6-135

Brushed Brass
P/N 56-202-8-135

Custom Colour (RAL colours)
P/N 56-202-X-135

Signal White (RAL9003)
P/N 56-202-4-135 (Previously known as Bright White)

Pure White (RAL9010)
P/N 56-202-3-135 (Eastern Hemisphere sales only)



DRY TYPE HORIZONTAL SIDEWALL

MODEL
DS-1

DATASHEET
TFP500



DRY TYPE PENDENT

MODEL
DS-2

DATASHEET
TFP540



DRY TYPE CONCEALED PENDENT

MODEL
DS-C

DATASHEET
TFP515

Dry Sprinklers

Notes

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BB = Bright Brass

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GW = Grey White (RAL 9002)

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SS = Stainless Steel

W = Wax Coating

Wh = Signal White (RAL 9003)

WOL = Wax Coating over Lead

X = Custom Color

(3) Response Legend: **SR** = Standard Response
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(4) Sprinkler Orientation: **EC** = Extended Coverage
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(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
DS-1	TY3155	Upright	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-98X	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench		
DS-1	TY3255	Pendent	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-9XX	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE, VdS	Pipe Wrench	W7	YES
DS-1	TY3355	Horizontal Sidewall	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-XXX	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench	W7	YES
DS-1	TY3935	Pendent	QR	80.6	5.6	3 mm Bulb	3/4"	TFP510	60-OXX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES
DS-1	TY3735	Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	3/4"	TFP510	60-OXX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES
DS-1	TY3135	Upright	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-38X	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench		
DS-1	TY3235	Pendent	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-3XX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES
DS-1	TY3335	Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-XXX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES
DS-1	TY3358	EC Horizontal Sidewall	SR	80.6	5.6	5 mm Bulb	1"	TFP520	60-95X	135, 155	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-1	TY3338	EC Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	1"	TFP520	60-35X	135, 155	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-1 - Stainless	TY3250	Pendent	SR	80.6	5.6	5 mm Bulb	1"	TFP560	60-2XX	135, 155, 175, 200, 286, 360	12.1	175	SS	UL, C-UL, LPCB, CE	W7	W7	YES
DS-1 - Stainless	TY3357	Horizontal Sidewall	SR	80.6	5.6	5 mm Bulb	1"	TFP560	60-2XX	135, 155, 175, 200, 286, 360	12.1	175	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3230	Pendent	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-1XX	135, 155, 175, 200, 286, 360	12.1	175	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3337	Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-1XX	135, 155, 175, 200, 286, 360	12.1	175	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3339	EC Horizontal Sidewall	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-18X	135, 155, 175, 200, 286, 360	12.1	175	SS	UL, C-UL	W7	W7	YES
DS-2	TY5255	Pendent	SR	161.3	11.2	5 mm Bulb	1"	TFP530	61-1XX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-2	TY5235	Pendent	QR	161.3	11.2	3 mm Bulb	1"	TFP530	61-3XX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-2	TY5238	ELO, EC Pendent	QR/SR	161.3	11.2	3 mm Bulb	1"	TFP540	61-4XX	135, 155, 175, 200, 286	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-3	TY5339	Horizontal Sidewall	SR	161.3	11.2	3 mm Bulb	1"	TFP550	61-1XX	155, 200	12.1	175	B, C, SW	UL, C-UL	W8	W8	YES
DS-C	TY3555	Concealed Pendent	SR	80.6	5.6	5 mm Bulb	1"	TFP515	60-86X	155, 200	12.1	175	B, C, GW, SW, JB, X	UL, C-UL, NYC	Pipe Wrench	RFII	
DS-C	TY3535	Concealed Pendent	QR	80.6	5.6	3 mm Bulb	1"	TFP515	60-46X	155, 200	12.1	175	B, C, GW, SW, JB, X	UL, C-UL, NYC	Pipe Wrench	RFII	
DS-ECC	TY3539	EC Concealed Pendent	QR	80.6	5.6	3 mm Bulb	1"	TFP518	60-45X	155, 200	12.1	175	B, C, GW, SW, JB, X	UL, C-UL, NYC	Pipe Wrench	RFII	
ESFR-17	TY7229	ESFR Dry-Type Pendent	FR	241.9	16.8	Solder	1-1/4"	TFP320	61-44X	165, 212	12.1	175	B	UL, FM	W26		



HORIZONTAL SIDEWALL

MODEL

Raven Studio

DATASHEET

TFP658



UPRIGHT

MODEL

TY-FRFS

DATASHEET

TFP635



HORIZONTAL SIDEWALL

MODEL

WS

DATASHEET

TFP620

Special (Attic, Window, Studio, Combustible Concealed)

Notes

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SS = Stainless Steel

W = Wax Coating
Wh = Signal White (RAL 9003)
WOL = Wax Coating over Lead
X = Custom Color

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(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
BB1	TY4180	Attic Back to Back	FR	115.2	8.0	3 mm Bulb	3/4"	TFP610	51-623	200	12.1	175	B	UL, ULC	W3		
BB2	TY4181	Attic Back to Back	FR	115.2	8.0	3 mm Bulb	3/4"	TFP610	51-621	200	12.1	175	B	UL, ULC	W3		
BB3	TY4182	Attic Back to Back	FR	115.2	8.0	3 mm Bulb	3/4"	TFP610	51-622	200	12.1	175	B	UL, ULC	W3		
BB1	TY3180	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-601	212	12.1	175	B	UL, ULC	Adj. Wrench		
BB2	TY3181	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-602	212	12.1	175	B	UL, ULC	Adj. Wrench		
BB3	TY3182	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-603	212	12.1	175	B	UL, ULC	Adj. Wrench		
BB1	TY2180	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-620	200	12.1	175	B	UL, ULC	W6		
BB2	TY2181	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-621	200	12.1	175	B	UL, ULC	W6		
BB3	TY2182	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-622	200	12.1	175	B	UL, ULC	W6		
SD1	TY3183	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-611	212	12.1	175	B	UL, ULC	Adj. Wrench		
SD2	TY3184	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-612	212	12.1	175	B	UL, ULC	Adj. Wrench		
SD3	TY3185	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-613	212	12.1	175	B	UL, ULC	Adj. Wrench		
HIP	TY3187	Attic HIP™	FR	80.6	5.6	3 mm Bulb	1/2"	TFP610	51-620	200	12.1	175	B	UL, ULC	W20		
AP	TY3190	Attic Plus	FR	80.6	5.6	3 mm Bulb	1/2"	TFP610	50-625	200	12.1	175	B	UL, ULC	W20		
AP	TY2190	Attic Plus	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-624	200	12.1	175	B	UL, ULC	W20		
WS	TY3388	Window Horizontal Sidewall	FR	80.6	5.6	3 mm Bulb	1/2"	TFP620	50-305	155, 200	12.1	175	B, C, SW, JB	UL, C-UL, NYC, ICC	W20		
WS	TY3488	Window Pendent Vertical Sidewall	FR	80.6	5.6	3 mm Bulb	1/2"	TFP620	50-304	155, 200	12.1	175	B, C, SW, JB	UL, C-UL, NYC, ICC	W20		
CC1	TY1189	Combustible Concealed Upright	FR	40.3	2.8	3 mm Bulb	1/2"	TFP630	50-300	175	12.1	175	B	UL	W20		
CC2	TY2189	Combustible Concealed Upright	FR	60.5	4.2	3 mm Bulb	1/2"	TFP632	51-311	175	12.1	175	B	UL	W6		
CC2	TY3189	Combustible Concealed Upright	FR	80.6	5.6	3 mm Bulb	1/2"	TFP632	51-301	175	12.1	175	B	UL	W6		
CC3	TY2199	Combustible Concealed Upright	FR	60.5	4.2	3 mm Bulb	1/2"	TFP633	51-311	200	12.1	175	B	UL	W6		
CC3	TY3199	Combustible Concealed Upright	FR	80.6	5.6	3 mm Bulb	1/2"	TFP633	51-301	200	12.1	175	B	UL	W6		
RAVEN Studio	TY1281	Flush Pendent	QR	80.6	5.6	Solder	1/2"	TFP658	50-310	165	12.1	175	W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1381	Flush Horizontal Sidewall	QR	80.6	5.6	Solder	1/2"	TFP658	50-312	165	12.1	175	W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1282	EC Flush Pendent	QR	80.6	5.6	Solder	1/2"	TFP658	50-311	165	12.1	175	W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1382	EC Flush Horizontal Sidewall	QR	80.6	5.6	Solder	1/2"	TFP658	50-318	165	12.1	175	W, G, Custom †	UL, ULC	W25		



UPRIGHT

MODEL
CC2

DATASHEET
TFP632



HORIZONTAL SIDEWALL

MODEL
Raven

DATASHEET
TFP651



PENDENT

MODEL
FSC

DATASHEET
TFP645

Special (Conventional)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass **GW** = Grey White (RAL 9002) **W** = Wax Coating
BB = Bright Brass **L** = Lead Coating **Wh** = Signal White (RAL 9003)
Bl = Black **JB** = Jet Black (RAL 9005) **WOL** = Wax Coating over Lead
C = Chrome Plated **SS** = Stainless Steel **X** = Custom Color

(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** - Extended Coverage
ESFR - Early Suppression Fast Response **Opt.** - Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-B	TY365	Conventional (Old Style)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP662	77-573	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW, JB	UL, C-UL, VdS, LPCB- (TY3650 Only)	W6		
TY-B	TY4651	Conventional (Old Style)	SR	115.2	8.0	5 mm Bulb	3/4"	TFP661	57-593	135, 155, 175, 200, 286, 360	12.1	175	B, C, SW, L, W, WOL, JB	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY363	Conventional (Old Style)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP667	77-373	135, 155, 175, 200, 286, 360, Open	12.1	175	B, C, SW, JB	UL, C-UL, VdS, LPCB- (TY3630 Only)	W6		
TY-FRB	TY4631	Conventional (Old Style)	QR	115.2	8.0	3 mm Bulb	3/4"	TFP666	57-393	135, 155, 175, 200, 286	12.1	175	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6		

Special (Institutional)

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
RAVEN	TY3281	Institutional Pendent	QR	80.6	5.6	Solder	1/2"	TFP651	50-314	165	12.1	175	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3381	Institutional Horizontal Sidewall	QR	80.6	5.6	Solder	1/2"	TFP651	50-316	165	12.1	175	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3282	Institutional Pendent EC	QR	80.6	5.6	Solder	1/2"	TFP651	50-315	165	12.1	175	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3382	Institutional Horizontal Sidewall EC	QR	80.6	5.6	Solder	1/2"	TFP651	50-317	165	12.1	175	SW, GW	UL, C-UL	W25		YES
TFP PH2	TY3290	Institutional Pendent	SR	80.6	5.6	Solder	1/2"	TFP650	51-104	165, 212	12.1	175	C	UL, C-UL, NYC	1509-3		YES
TFP PH5	TY3390	Institutional Horizontal Sidewall	SR	80.6	5.6	Solder	1/2"	TFP654	51-106	165	12.1	175	C	UL, C-UL, NYC	1509-3		



**PENDENT
(STAINLESS STEEL)**

MODEL
TY-FRB

DATASHEET
TFP680



**CONVENTIONAL
(STAINLESS STEEL)**

MODEL
TY-FRB

DATASHEET
TFP680

Special (Alternate Materials of Construction)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass
BB = Bright Brass
BI = Black
C = Chrome Plated
GW = Grey White (RAL 9002)
L = Lead Coating
JB = Jet Black (RAL 9005)
SS = Stainless Steel
W = Wax Coating
Wh = Signal White (RAL 9003)
WOL = Wax Coating over Lead
X = Custom Color

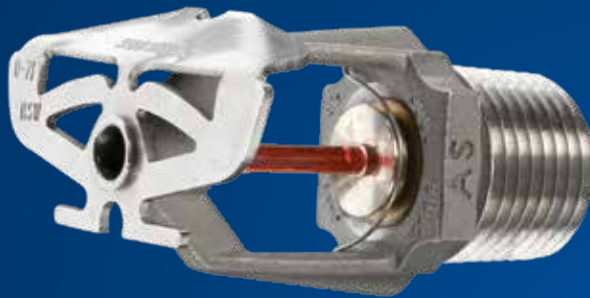
(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-B	TY8191	Upright (Stainless Steel)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-570	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-B	TY8291	Pendent (Stainless Steel)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-571	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	YES
TY-B	TY9191	Upright (Stainless Steel)	SR	115.2	8.0	5 mm Bulb	3/4"	TFP680	57-590	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-B	TY9291	Pendent (Stainless Steel)	SR	115.2	8.0	5 mm Bulb	3/4"	TFP680	57-591	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	YES
TY-B	TY8691	Conventional (Stainless Steel)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-573	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY9691	Conventional (Stainless Steel)	SR	115.2	8.0	5 mm Bulb	3/4"	TFP680	57-593	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY8391	Horizontal Sidewall (SS)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-578	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	LPCB, Lloyds	W6	W7	YES
TY-B	TY8491	Vertical Sidewall (SS)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-575	135, 155, 175, 200, 286, 360	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY8192	Upright (SMO)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-570	135, 155, 175, 200, 286, 360	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8292	Pendent (SMO)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-571	135, 155, 175, 200, 286, 360	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	YES
TY-B	TY8692	Conventional (SMO)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-573	135, 155, 175, 200, 286, 360	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8392	Horizontal Sidewall (SMO)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-578	135, 155, 175, 200, 286, 360	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	YES
TY-B	TY8492	Vertical Sidewall (SMO)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-575	135, 155, 175, 200, 286, 360	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8193	Upright (Titanium)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-570	135, 155, 175, 200, 286, 360	12.1	175	Titanium	LPCB, Lloyds	W6		
TY-B	TY8293	Pendent (Titanium)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-571	135, 155, 175, 200, 286, 360	12.1	175	Titanium	LPCB, Lloyds	W6	W7	YES
TY-B	TY8693	Conventional (Titanium)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-573	135, 155, 175, 200, 286, 360	12.1	175	Titanium	LPCB, Lloyds	W6		
TY-B	TY8393	Horizontal Sidewall (Titanium)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-578	135, 155, 175, 200, 286, 360	12.1	175	Titanium	LPCB, Lloyds	W6	W7	YES
TY-B	TY8493	Vertical Sidewall (Titanium)	SR	80.6	5.6	5 mm Bulb	1/2"	TFP680	57-575	135, 155, 175, 200, 286, 360	12.1	175	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8181	Upright (Stainless Steel)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-370	135, 155, 175, 200, 286	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-FRB	TY8281	Pendent (Stainless Steel)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-371	135, 155, 175, 200, 286	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	YES
TY-FRB	TY9181	Upright (Stainless Steel)	QR	115.2	8.0	3 mm Bulb	3/4"	TFP680	57-390	135, 155, 175, 200, 286	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		

(continued on next page)



HORIZONTAL SIDEWALL (STAINLESS STEEL)

MODEL
TY-FRB

DATASHEET
TFP680



VERTICAL SIDEWALL (STAINLESS STEEL)

MODEL
TY-FRB

DATASHEET
TFP680

Special (Alternate Materials of Construction)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass **GW** = Grey White (RAL 9002) **W** = Wax Coating
BB = Bright Brass **L** = Lead Coating **Wh** = Signal White (RAL 9003)
Bl = Black **JB** = Jet Black (RAL 9005) **WOL** = Wax Coating over Lead
C = Chrome Plated **SS** = Stainless Steel **X** = Custom Color

(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
TY-FRB	TY9281	Pendent (Stainless Steel)	QR	115.2	8.0	3 mm Bulb	3/4"	TFP680	57-391	135, 155, 175, 200, 286	12.1	175	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8681	Conventional (Stainless Steel)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-373	135, 155, 175, 200, 286	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY9681	Conventional (Stainless Steel)	QR	115.2	8.0	3 mm Bulb	3/4"	TFP680	57-393	135, 155, 175, 200, 286	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY8381	Horizontal Sidewall (SS)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-378	135, 155, 175, 200, 286	12.1	175	Stainless Steel	LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8481	Vertical Sidewall (SS)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-375	135, 155, 175, 200, 286	12.1	175	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY8182	Upright (SMO)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-370	135, 155, 175, 200, 286	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8282	Pendent (SMO)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-371	135, 155, 175, 200, 286	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8682	Conventional (SMO)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-373	135, 155, 175, 200, 286	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8382	Horizontal Sidewall (SMO)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-378	135, 155, 175, 200, 286	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8482	Vertical Sidewall (SMO)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-375	135, 155, 175, 200, 286	12.1	175	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8183	Upright (Titanium)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-370	135, 155, 175, 200, 286	12.1	175	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8283	Pendent (Titanium)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-371	135, 155, 175, 200, 286	12.1	175	Titanium	LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8683	Conventional (Titanium)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-373	135, 155, 175, 200, 286	12.1	175	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8383	Horizontal Sidewall (Titanium)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-378	135, 155, 175, 200, 286	12.1	175	Titanium	LPCB, Lloyds	W6	W7	YES
TY-FRB	TY8483	Vertical Sidewall (Titanium)	QR	80.6	5.6	3 mm Bulb	1/2"	TFP680	57-375	135, 155, 175, 200, 286	12.1	175	Titanium	LPCB, Lloyds	W6		



UPRIGHT

MODEL

Issue D Quartzoid

DATASHEET

TFP690



PENDENT

MODEL

Issue D Quartzoid

DATASHEET

TFP690

Special (High Temperature)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend (applies to cover plate only for concealed type sprinklers):

B = Brass **GW** = Grey White (RAL 9002) **W** = Wax Coating
BB = Bright Brass **L** = Lead Coating **Wh** = Signal White (RAL 9003)
Bl = Black **JB** = Jet Black (RAL 9005) **WOL** = Wax Coating over Lead
C = Chrome Plated **SS** = Stainless Steel **X** = Custom Color

(3) Response Legend: **SR** = Standard Response
QR = Quick Response **FR** = Fast Response

(4) Sprinkler Orientation: **EC** = Extended Coverage
ESFR = Early Suppression Fast Response **Opt.** = Optimised

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Sprinkler Identification Number (SIN)	Sprinkler Orientation	Response (3)	K Factor		Operating Element	Thread Size (5)	Data Sheet	Base Part No.	Temperature °F (1)	Max. Pressure		Sprinkler Finish (1,2)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/ bar ^{1/2}	GPM/ psi ^{1/2}						bar	PSI					
Issue D Quartzoid®	TY3191	Upright	SR	80.6	5.6	11 mm Bulb	1/2"	TFP690	51-036	400, 500, 650	12.1	175	B, C, L	FM, UL, C-UL, LPCB	W11		
Issue D Quartzoid®	TY3296	Pendent	SR	80.6	5.6	11 mm Bulb	1/2"	TFP690	51-040	400, 500, 650	12.1	175	B, C, L	FM, UL, C-UL, LPCB	W11		
Issue D Quartzoid®	TY4191	Upright	SR	115.2	8.0	11 mm Bulb	3/4"	TFP690	51-136	400, 500	12.1	175	B, C, L	UL, C-UL	W11		
Issue D Quartzoid®	TY4292	Pendent	SR	115.2	8.0	11 mm Bulb	3/4"	TFP690	51-140	400, 500	12.1	175	B, C, L	UL, C-UL	W11		



MEDIUM VELOCITY SPRAY NOZZLE

MODEL

D3

DATASHEET

TFP802



MEDIUM VELOCITY SPRAY NOZZLE

MODEL

EA-1

DATASHEET

TFP800



MEDIUM VELOCITY SPRAY NOZZLE

MODEL

D4a

DATASHEET

TFP806

Nozzles (Medium Velocity)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Nozzle Finish Legend

AB = Aluminium Bronze

B = Brass

Br = Bronze

C = Chrome

LCB = Lead Coated Brass

LG = Brass & Lead Gunmetal LG2

SMO = SMO254

SS = Stainless Steel

T = Titanium

TCB = Teflon Coated Brass

WCB = Wax Coated Brass

Z = Zeron100

(3) K-Factor value based on 25-60psi or 1.7-4.1bar

(4) - Welding or Brazing

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Orientation	Open / Automatic	Base Part Number	Nozzle Model / Orifice Size	K Factor		Thread Size (5)	Spray Angles	*Finish (2)	Max. Pressure		Technical Data Sheet	Approvals (1)	Strainer	Blow Off/ Dust Cap
					LPM/ bar ^{1/2}	GPM/ psi ^{1/2}				bar	PSI				
EA-1 Protectospray	Directional	Automatic	49-7XX	1/4"	20.2	1.4	1/2" NPT	65°, 80°, 95°, 110°, 125°, 140°, 160°, 180°	B, WCB, LCB, C	175	12.1	TFP800	UL, C-UL, FM	-	-
			49-8XX	3/8"	40.3	2.8									
			49-9XX	1/2"	80.6	5.6									
D3 Protectospray	Directional	Open	49-316	No. 16	17.3	1.2	1/2" NPT	65°, 80°, 95°, 110°, 125°, 140°, 160°, 180°	B, TCB, LCB, C, SS	175	12.1	TFP802	UL, C-UL, FM	-	See TFP890
			49-318	No. 18	25.9	1.8									
			49-321	No. 21	33.1	2.3									
			49-324	No. 24	43.2	3.0									
			49-328	No. 28	59.0	4.1									
			49-332	No. 32	80.6	5.6									
			49-334	No. 34	103.7	7.2									
D3S Protectospray	Directional	Open	49-515	No. 16	17.3	1.2	1/2" NPT	65°, 80°, 95°, 110°, 125°, 140°, 160°, 180°	B, C, SS	175	12.1	TFP804	UL, C-UL, FM	YES	See TFP890
			49-518	No. 18	25.9	1.8									
			49-521	No. 21	33.1	2.3									
			49-524	No. 24	43.2	3.0									
D4a Protectospray	Directional	Open	49-416	No. 16	17.3	1.2	1/2" NPT	65°, 80°, 95°, 110°, 125°, 140°, 160°, 180°	B, TCB	175	12.1	TFP806	UL, C-UL	-	See TFP890
			49-418	No. 18	25.9	1.8									
			49-421	No. 21	33.1	2.3									
			49-424	No. 24	43.2	3.0									
			49-428	No. 28	59.0	4.1									
			49-432	No. 32	80.6	5.6									
			49-434	No. 34	103.7	7.2									
MV	Directional	Open	See TFP807	MV10	17.3	1.2	1/2" NPT	90°, 95°, 110°, 125°, 140°, 160°	SS, LG, T, SMO	175	12.1	TFP807	UL, FM	YES	-
				MV12	18.7	1.3									
				MV15	25.9	1.8									
				MV18	28.8	2.0									
				MV19	31.7	2.2									
				MV21	36.0	2.5									
				MV25	41.8	2.9									
				MV26	44.6	3.1									
				MV30	49.0	3.4									
				MV34	59.0	4.1									
					79.2	5.5									
				MV57	100.8	7.0									

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**MEDIUM VELOCITY
SPRAY NOZZLE**

MODEL
MV-R

DATASHEET
TFP809



**MEDIUM VELOCITY
SPRAY NOZZLE**

MODEL
MV-T

DATASHEET
TFP809

Nozzles (Medium Velocity)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Nozzle Finish Legend

AB = Aluminium Bronze

B = Brass

Br = Bronze

C = Chrome

LCB = Lead Coated Brass

LG = Brass & Leaded Gunmetal LG2

SMO = SMO254

SS = Stainless Steel

T = Titanium

TCB = Teflon Coated Brass

WCB = Wax Coated Brass

Z = Zeron100

(3) K-Factor value based on 25-60psi or 1.7-4.1bar

(4) - Welding or Brazing

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Orientation	Open / Automatic	Base Part Number	Nozzle Model / Orifice Size	K Factor		Thread Size (5)	Spray Angles	*Finish (2)	Max. Pressure		Technical Data Sheet	Approvals (1)	Strainer	Blow Off/ Dust Cap
					LPM/ bar ^{1/2}	GPM/ psi ^{1/2}				bar	PSI				
DN-5	Directional	Open	see TFP808	-	86.5	6.0	1/2" NPT	See TFP808	Halar Coated	-	-	TFP808	FM	-	-
MV-R, MV-T	Directional	Open	see TFP809	MV10	17.3	1.2	1/2" NPT	see TFP809	SS, B, T, AB, SMO, Z	175	12.1	TFP809	UL, FM (MV-R)	-	-
				MV12	18.7	1.3									
				MV15	25.9	1.8									
				MV18	28.8	2.0									
				MV19	31.7	2.2									
				MV21	36.0	2.5									
				MV25	41.8	2.9									
				MV26	44.6	3.1									
				MV30	49.0	3.4									
				MV34	59.0	4.1									
				MV47	79.2	5.5									
				MV57	100.8	7.0									



HIGH VELOCITY SPRAY NOZZLE

MODEL

Mulsifyre

DATASHEET

TFP810



HIGH VELOCITY SPRAY NOZZLE

MODEL

HV

DATASHEET

TFP815



HORIZONTAL SPRAY NOZZLE

MODEL

TN-25

DATASHEET

TFP850

Nozzles (High Velocity)

Notes

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Nozzle Finish Legend

AB = Aluminium Bronze
B = Brass
Br = Bronze
C = Chrome

LCB = Lead Coated Brass
LG = Brass & Lead Gunmetal LG2
SMO = SMO254
SS = Stainless Steel

T = Titanium
TCB = Teflon Coated Brass
WCB = Wax Coated Brass
Z = Zeron100

(3) K-Factor value based on 25-60psi or 1.7-4.1bar

(4) - Welding or Brazing

(5) Refer to the Technical Datasheet for specific information about ISO Thread availability

Model (1)	Orientation	Open / Automatic	Base Part Number	Nozzle Model / Orifice Size	K Factor		Thread Size (5)	Spray Angles	*Finish (2)	Max. Pressure		Technical Data Sheet	Approvals (1)	Strainer	Blow Off/ Dust Cap
					LPM/ bar ^{1/2}	GPM/ psi ^{1/2}				bar	PSI				
Mulsifyre	Directional	Open	49-800 (no dust cap) 49-801 (with dust cap)	F822	28.8	2.0	3/4" NPT	See TFP810	B, C (with dust cap only)	175	12.1	TFP810	UL, ULC	-	YES
				F824	33.1	2.3									
				F826	37.4	2.6									
				F828	38.9	2.7									
				F832	66.2	4.6									
				F834	73.4	5.1									
Mulsifyre (with Strainer)	Directional	Open	49-810	F822S	28.8 (3)	2.0 (3)	3/4" NPT	80°	B, C (with dust cap only)	175	12.1	TFP811	FM	YES	-
				F824S	34.6 (3)	2.4 (3)		70°							
				F826S	37.4 (3)	2.6 (3)		125°							
				F828S	38.9 (3)	2.7 (3)		70°							
				F832S	66.2 (3)	4.6 (3)		90°							
				F834S	67.7 (3)	4.7 (3)		70°							
HV	Directional	Open	49-014	HV-14	23.0	1.6	1" NPT (4)	120°	B, SS	175	12.1	TFP815	UL, C-UL, FM	YES	
			49-017	HV-17	25.9	1.8		60°							
			49-026	HV-26	41.8	2.9		110°							
			49-037	HV-37	62.0	4.3		70°							
			49-045	HV-45	80.7	5.6		90°							
			49-060	HV-60	92.2	6.4	1 1/4" NPT	80°							

Nozzles (Others)

Model (1)	Orientation	Open / Automatic	Base Part Number	Nozzle Model / Orifice Size	K Factor		Thread Size (5)	Spray Angles	*Finish (2)	Max. Pressure		Technical Data Sheet	Approvals (1)	Strainer	Blow Off/ Dust Cap
					LPM/ bar ^{1/2}	GPM/ psi ^{1/2}				bar	PSI				
G Washdown	Low Velocity	Open	49-554	-	43.2	3.0	1/2" NPT	125°	AB	See TFP 820		TFP820	See TFP820	-	-
SB Washdown	Upright	See TFP825	49-556	-	73.4	5.1	1/2" (4)	-	SS	See TFP825		TFP825	See TFP825	-	-
Type 1 and 2 Cooling Tower Nozzles	See TFP830	Open	50-081	-	42.0	2.9	3/4" NPT	See TFP 830	B,SS	175	12.1	TFP830	UL, FM	-	-
			50-082												
Issue A	See TFP 835	Open	49-200	1/4"	1.83	26.33	See TFP 835	Br	175	12.1	TFP835	UL, FM	-	-	
				5/16"	2.62	37.72									
				3/8"	4.08	58.73									
Issue B	See TFP 835	Open	49-201	1/2"	5.76	82.93	1/2" NPT	See TFP 835	Br	175	12.1	TFP835	UL, FM	-	-
				5/8"	8.64	124.39	3/4" NPT								
					12.39	178.39									
B-1	Upright	Open	49-210	-	43.2	3.0	1/2" NPT	See TFP840	B	175	12.1	TFP840	UL, ULC	-	-
	Pendent		49-211												
TN-17	Horizontal	Open	49-017	-	362.9	25.2	3/4" NPT (4)	See TFP852	B	30	2.1	TFP852	UL, C-UL	-	-
TN-25	Horizontal	Open	49-025	-	362.9	25.2	1" NPT (4)	See TFP850	B	30	2.1	TFP850	UL, C-UL	-	-

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