

Product Catalogue

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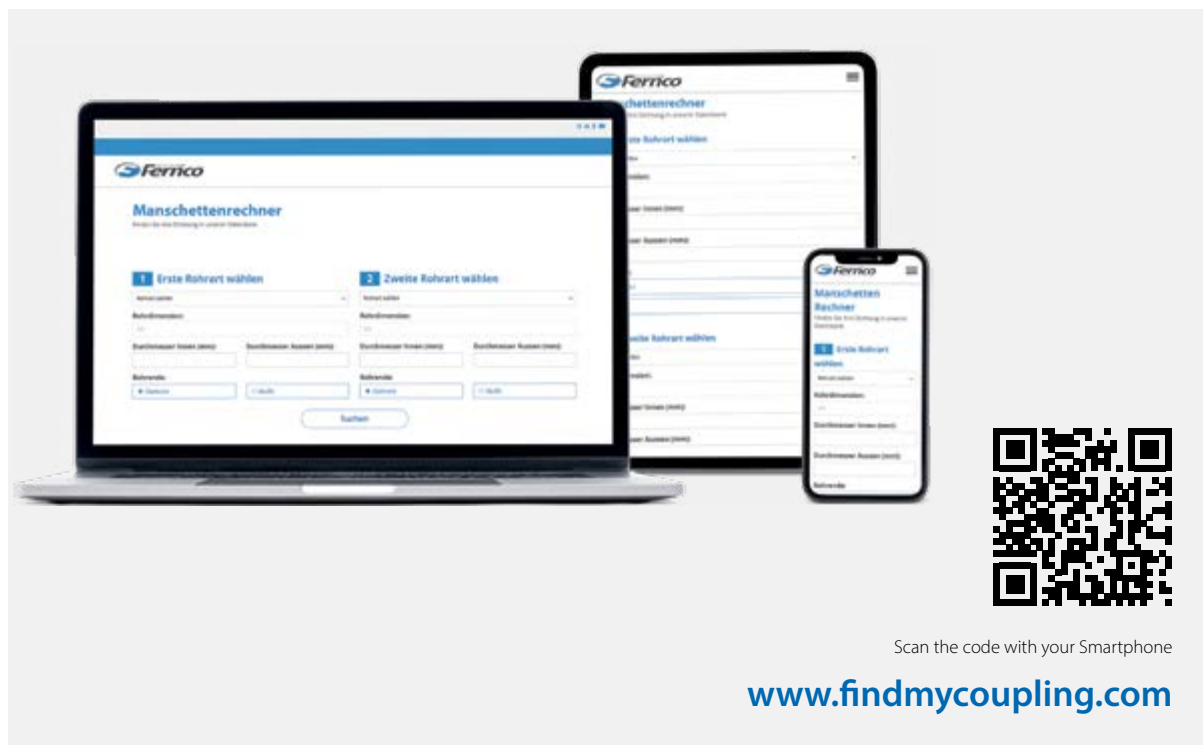
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Couplings



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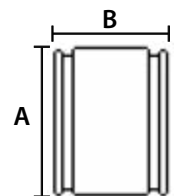
Coupling Type 2A TC



Product Description:

Product Name	Coupling Type 2A TC
Product Group	Couplings

- for connecting clay pipes of all manufacturers
- also suitable for all pipes with similar outside diameter (maximum difference 10 mm)
- Shear and clamp bands made of austenitic, stainless steel of grade W 1.4301 (V2A)
- pressure tight up to 0.6 bar
- made of EPDM according to EN 681-1
- meets all test criteria of DIN EN 295-4



Installation:



Loosen the clamp bands and slide the coupling onto the first pipe. No lubricant required.



Make a mark on the second pipe, half a coupling's width from the end to be jointed.



Insert the second pipe up to the mark.



Tighten the clamp bands to the recommended torque in sequence across the width of the coupling.

Product Code	Clay Size DN	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
TC135	100	120 – 135	102	175	0.6	6	0.5
TC165	125	150 – 165	102	205	0.6	6	0.6
TC190	150	175 – 190	110	230	0.6	6	0.8
TC250	200 N	235 – 250	110	290	0.6	6	0.9
TC265	200 H	250 – 265	110	305	0.6	6	1.0
TC305	250 N	290 – 305	160	355	0.6	13	2.0
TC325	250 H	310 – 325	160	375	0.6	13	2.1
TC360	300 N	345 – 360	160	410	0.6	13	2.2
TC385	300 H	370 – 385	160	445	0.6	13	2.3
TC425	350 N	410 – 425	160	485	0.6	13	2.8
TC440	350 H	425 – 440	160	500	0.6	13	2.6
TC500	400 N/H	485 – 500	160	560	0.6	13	3.5
TC560	450 H	545 – 560	160	620	0.6	13	3.8
TC590	500 N	575 – 590	160	650	0.6	13	4.1

Please note: It is **not** possible to make a transition from an AD 190 to AD 175 using a coupling with the clamping range 175 – 190 mm (TC 190). For this purpose, bushes may have to be used with a coupling type 2B.

Please note that we manufacture our couplings according to the currently valid WN 295 of Deutsche Steinzeug. It is therefore possible that in individual cases – e.g. with old pipes – inaccuracies in fit may occur.

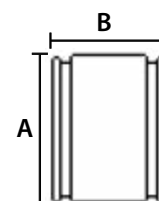
Coupling Type 2B SC



Product Description:

Product Name	Coupling Type 2B SC
Product Group	Couplings

- for connecting sewage pipes of all materials and manufacturers (up to OD 620 mm)
- connects all pipes up to OD 620 mm with a similar outside diameter
- for an OD difference >12 mm the use of bushes (page 12) is absolutely necessary
- numerous possibilities in connection with bushes
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)
- pressure tight up to 2.5 bar



There are numerous application possibilities for installation, repair and maintenance of sewage pipes of all types for the SC couplings on its own or in combination with bushes.

Installation:



Loosen the clamp bands and slide the coupling onto the first pipe. No lubricant required.



Make a mark on the second pipe, half a coupling's width from the end to be joined.



Insert the second pipe up to the mark.



Tighten the clamp bands to the recommended torque in sequence across the width of the coupling.



For connections where high chemical resistance is required, you will find special chemical couplings from Fernco on page 108.

These are custom-made according to the specific requirements on site and are able to withstand the widest possible range of chemicals.

Type 2B to connect clay pipes from all manufacturers and other types of pipe

Product Code	Clay Size DN	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
SC137	100	120 – 137	120	177	2.5	6	0.7
SC165	125	140 – 165	136	205	2.5	6	0.9
SC200	150	175 – 200	150	240	2.5	6	1.3
SC250	200 N	225 – 250	150	290	2.5	13	1.6
SC265	200 H	240 – 265	150	315	2.5	13	1.7
SC310	250 N	285 – 310	190	370	2.5	13	3.1
SC335	250 H	305 – 335	190	395	2.5	13	3.4
SC360	300 N	340 – 360	190	420	2.5	13	3.5
SC385	300 H	355 – 385	190	445	2.5	13	3.7
SC425	350 N	400 – 425	190	485	2.5	13	4.3
SC445	350 H	420 – 445	190	505	2.5	13	4.4
SC490	400 N	465 – 490	190	550	2.5	13	4.7
SC510	400 H	480 – 510	190	570	2.5	13	4.9
SC560	450 H	530 – 560	190	620	2.5	13	5.3
SC600	500 N	570 – 600	190	660	2.5	13	5.6
SC620	500 H	590 – 620	190	680	2.5	13	5.8

Type 2B to connect pipes of all types

Product Code	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
SC065	50 – 65	90	105	2.5	6	0.4
SC075	60 – 75	108	115	2.5	6	0.5
SC085	70 – 85	80	125	2.5	6	0.4
SC095	80 – 95	110	135	2.5	6	0.5
SC115	100 – 115	120	155	2.5	6	0.8
SC120	110 – 121	120	160	2.5	6	0.7
SC125	110 – 125	120	165	2.5	6	0.8
SC137	120 – 137	120	177	2.5	6	0.7
SC150	125 – 150	136	190	2.5	6	0.9
SC165	140 – 165	136	205	2.5	6	0.9
SC175	150 – 175	136	215	2.5	6	0.9
SC185	160 – 185	136	225	2.5	6	1.1
SC200	175 – 200	150	240	2.5	6	1.3
SC215	190 – 215	150	255	2.5	13	1.6
SC225	200 – 225	150	265	2.5	13	1.5
SC250	225 – 250	150	290	2.5	13	1.6
SC265	240 – 265	150	315	2.5	13	1.7
SC275	250 – 275	150	325	2.5	13	2.1
SC290	265 – 290	150	340	2.5	13	2.3
SC310	285 – 310	190	370	2.5	13	3.1
SC320	295 – 320	190	380	2.5	13	3.2
SC335	305 – 335	190	395	2.5	13	3.4
SC345	315 – 345	190	405	2.5	13	3.4
SC360	340 – 360	190	420	2.5	13	3.5
SC370	345 – 370	190	430	2.5	13	3.6
SC385	355 – 385	190	445	2.5	13	3.7
SC400	370 – 400	190	460	2.5	13	4.0
SC410	385 – 410	190	470	2.5	13	4.1
SC425	400 – 425	190	485	2.5	13	4.3
SC435	410 – 435	190	495	2.5	13	4.4
SC445	420 – 445	190	505	2.5	13	4.4
SC450	425 – 450	190	510	2.5	13	4.5
SC465	435 – 465	190	525	2.5	13	4.6
SC470	440 – 470	190	530	2.5	13	4.6
SC490	465 – 490	190	550	2.5	13	4.7
SC510	480 – 510	190	570	2.5	13	4.9
SC525	495 – 525	190	585	2.5	13	5.0
SC540	510 – 540	190	600	2.5	13	5.1
SC550	520 – 550	190	610	2.5	13	5.2
SC560	530 – 560	190	620	2.5	13	5.3
SC570	540 – 570	190	630	2.5	13	5.4
SC580	555 – 580	190	640	2.5	13	5.5
SC600	570 – 600	190	660	2.5	13	5.6
SC620	590 – 620	190	680	2.5	13	5.8

All SC couplings are also available in **NBR-quality (oil- and petrol resistant)** and/or in **V4A (1.4404)** for an additional charge. Width may vary. Please ask our technical sales department.

Bushes B



Product Description:

Product Name	Bushes B
Product Group	Couplings

- standard thicknesses: 4, 8, 12, 16, 24 and 32 mm
- individual production according to customer requirements
- can be used for increased shear stability requirements
- can be used with the following Fernco couplings: SC, LC, EWC, MAG and 2B1
- compensates differences in outside diameter of up to 192 mm (max. 3 bushes)
- all bushes are made of EPDM as standard
- various thicknesses are also available in NBR quality (oil and petrol resistant)



Installation:



Slide the bush onto the smallest pipe, up to the marked point.



Loosen the clamp bands and slide the coupling onto the larger pipe. No lubricant required.



Insert the smaller pipe up to the mark.



Tighten the clamp bands to the recommended torque in sequence across the width of the coupling.

All compensating rings are available in:

- Production range YY = 4 mm
- Production range YY = 8 mm
- Production range YY = 12 mm*
- Production range YY = 16 mm
- Production range YY = 24 mm*
- Production range YY = 32 mm*

We configure our Fernco compensating rings as required. The pipe outside diameter must be specified when ordering.

*Production is only possible from an outside diameter of 200/250 mm.

Various thicknesses are also available in **NBR quality (oil and petrol resistant)** – plus 25 % of the list price.

Multibush MB



Product Description:

Product Name	Multibush MB
Product Group	Couplings

- universally applicable compensating rings for the nominal width DN 100, DN 150 and DN 200
- The patented Fernco Multibushes, in conjunction with the respective coupling, solve nearly every connection problem in the specified nominal range.
- also available in sets: see page 16
- made of EPDM as standard
- MB100 and MB150 also available in NBR quality (oil and petrol resistant)



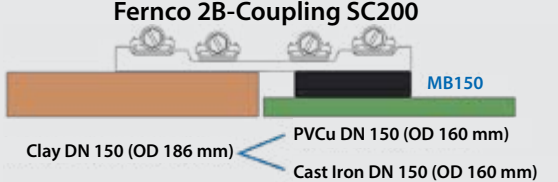
Product Code	Size DN	OD (mm)	Application Examples	Net Weight (kg)
MB100*	100	131	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop (DN 100)	0.2
MB150*	150	186	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop (DN 100)	0.4
MB200	200	242	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop (DN 200)	0.8

* also available in **NBR quality (oil and petrol resistant)** for an additional charge.

Application possibilities using the example of the Multibush MB150

Option 1

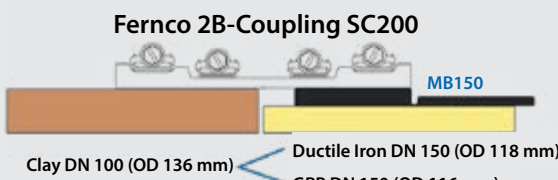
Fernco 2B-Coupling SC200



Clay DN 150 (OD 186 mm) —> PVCu DN 150 (OD 160 mm)
Cast Iron DN 150 (OD 160 mm)

Option 2

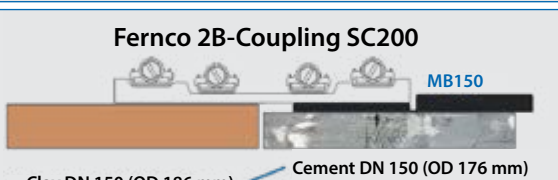
Fernco 2B-Coupling SC200



Clay DN 100 (OD 136 mm) —> Ductile Iron DN 150 (OD 118 mm)
GRP DN 150 (OD 116 mm)

Option 3

Fernco 2B-Coupling SC200



Clay DN 150 (OD 186 mm) —> Cement DN 150 (OD 176 mm)
EuroTop DN 150 (OD 178 mm)

Clay DN 150 – SC200 – MB150



- PVCu DN 150
- Cast Iron DN 150
- DUCTILE IRON DN 150
- GRP DN 150
- EuroTop DN 150

Application example for nominal width DN 150:
You can easily connect the following pipes: PVCu, Cast Iron, Ductile Iron, GRP, EuroTop

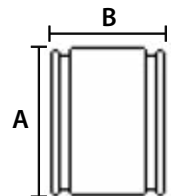
FlexPack & FlexPack Plus FP



Product Description:

Product Name	FlexPack, FlexPack Plus FP
Product Group	Couplings

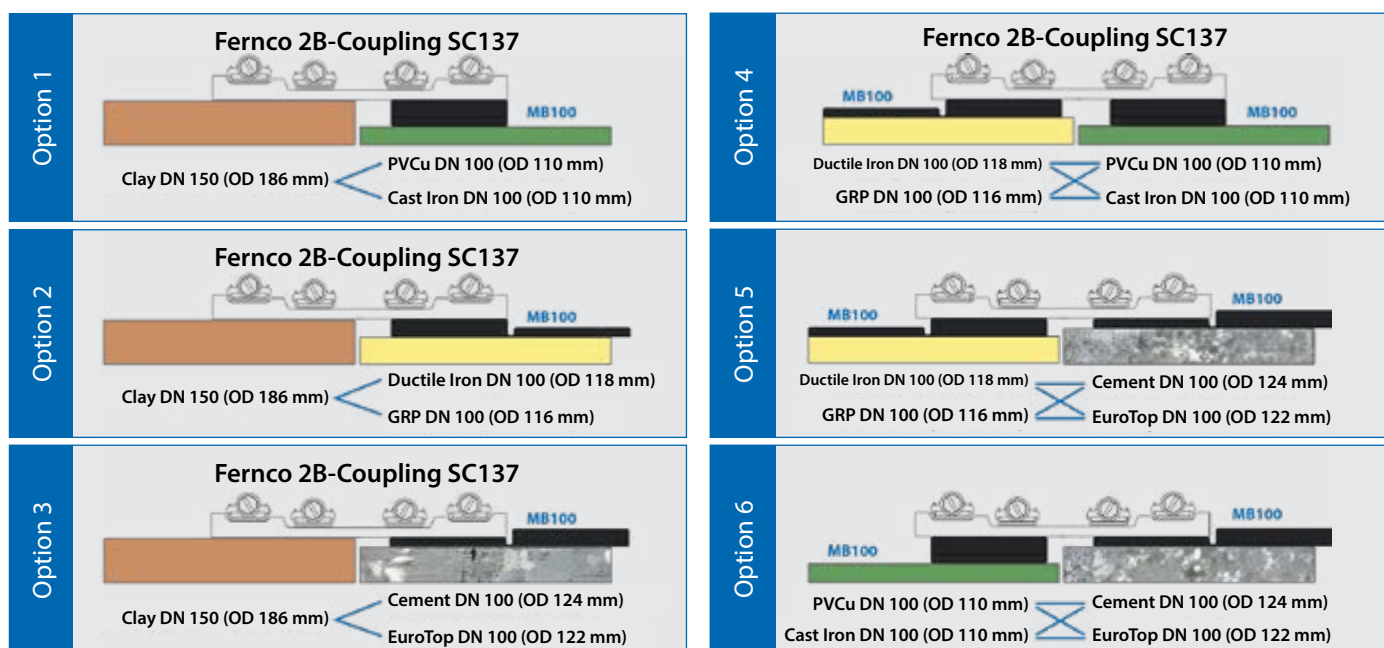
- Sets for the nominal widths DN 100, DN 150 and DN 200 for the connection of all types of sewage pipes.
- With each set, you can connect quickly and inexpensively all sewage pipes of the corresponding nominal width.
- FlexPack: consists of **one** Multibush and **one** coupling of the corresponding nominal width
- FlexPack Plus: consists of **two** Multibushs and **one** coupling of the corresponding nominal width
- made of EPDM as standard
- individual Multibushs are also available in NBR quality (oil and petrol resistant)
- all SC couplings are also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)



Product Code	Size Clay Pipe DN	Content	Application Example	Net Weight (kg)
FP100*	100	1× SC137 / 1× MB100	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	0.9
FP100PLUS*	100	1× SC137 / 2× MB100	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	1.1
FP150*	150	1× SC200 / 1× MB150	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	1.6
FP150PLUS*	150	1× SC200 / 2× MB150	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	1.9
FP200	200	1× SC250 / 1× MB200	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	2.3
FP200PLUS	200	1× SC250 / 2× MB200	PVCu, Cast Iron, Ductile Iron, GRP, EuroTop	3.0

* also available in **NBR quality (oil and petrol resistant)** or in **V4A (1.4404)** for an additional charge.

Application possibilities using the example of nominal with DN 100



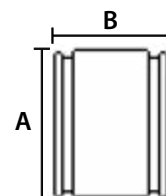
Coupling Type 2B LC



Product Description:

Product Name	Coupling Type 2B LC (190 mm wide)
Product Group	Couplings

- for connecting sewage pipes of all materials (from OD 620 mm)
- produced individually according to customer specifications (production in 5 mm-steps)
- Size of the coupling = pipe OD $\pm$ 15 mm
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)
- unique clamping device facilitates installation
- A = Ext. diameter of the coupling:
Inside manufacturing dimensions + 80 mm clamping unit
- clamping range: 30 mm
- If the OD difference is > 12 mm, the use of bushes (page 12) is mandatory.



Installation:



Loosen the clamp bands and slide the coupling onto the first pipe. No lubricant required.



Make a mark on the second pipe, half a coupling's width from the end to be jointed.



Insert the second pipe up to the mark.



Tighten the clamp bands to the recommended torque in sequence across the width of the coupling.

Type 2B Suitable for pipes of all materials (The clamping range of each LC-coupling is 30 mm!)

Product Code	Pipe (OD-Price Range)	Width – B (mm)	Pressure (bar)	Torque (Nm)
LC6xx	620 – 680	190	1.5	20
LC7xx	681 – 780	190	1.5	20
LC8xx	781 – 880	190	1.5	20
LC9xx	881 – 980	190	1.5	20
LC10xx	981 – 1080	190	1.0	25
LC11xx	1081 – 1180	190	1.0	25
LC12xx	1181 – 1280	190	1.0	25
LC13xx	1281 – 1380	190	1.0	25
LC14xx	1381 – 1480	190	0.6	25
The following LC sizes are produced with three clamping units to guarantee a better fit.				
LC15xx	1481 – 1580	190	0.6	25
LC16xx	1581 – 1680	190	0.6	25
LC17xx	1681 – 1780	190	0.6	25
LC18xx	1781 – 1880	190	o. G.	25
LC19xx	1881 – 1980	190	o. G.	25
LC20xx	over 1981	190	o. G.	25

All LC couplings are also available in **nitrile quality (oil- and petrol resistant)** and/or in **V4A (1.4404)** for an additional charge.

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All LC couplings from this table are **always** custom-made and can **not** be refunded!

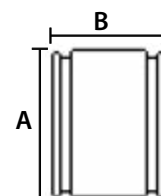
Coupling Type 2B EWC



Product Description:

Product Name	Coupling Type 2B EWC, Extra Wide (300 mm wide)
Product Group	Couplings

- for the connection of all types of sewage pipes (up to OD 620 mm)
- The width of 300 mm allows a greater tolerance when cutting the tip end, as well as a greater movement margin of the pipe during settling and thermal expansion.
- particularly stable "Hi-Torque" clamp bands in V2A
- pressure tight up to 2.5 bar
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)
- If the OD difference is > 12 mm, the use of bushes (page 12) is mandatory.



Installation:



Loosen the clamp bands and slide the coupling onto the first pipe. No lubricant required.



Make a mark on the second pipe, half a coupling's width from the end to be jointed.



Insert the second pipe up to the mark.



Tighten the clamp bands to the recommended torque in sequence across the width of the coupling.

Product Code	Clay Size DN	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
EWC225	*	200 – 225	300	270	2.5	13	2.4
EWC290	*	265 – 290	300	335	2.5	13	3.1
EWC310	250 N	285 – 310	300	365	2.5	13	3.3
EWC320	*	295 – 320	300	375	2.5	13	4.9
EWC335	250 H	305 – 335	300	390	2.5	13	5.1
EWC345	*	315 – 345	300	400	2.5	13	5.2
EWC360	300 N	340 – 360	300	415	2.5	13	5.4
EWC370	*	345 – 370	300	430	2.5	13	5.6
EWC385	300 H	355 – 385	300	440	2.5	13	5.8
EWC400	*	370 – 400	300	460	2.5	13	6.0
EWC410	*	385 – 410	300	465	2.5	13	6.1
EWC425	350 N	400 – 425	300	480	2.5	13	6.4
EWC435	*	410 – 435	300	485	2.5	13	6.4
EWC445	350 H	420 – 445	300	500	2.5	13	6.7
EWC450	*	425 – 450	300	505	2.5	13	6.7
EWC465	*	435 – 465	300	520	2.5	13	7.0
EWC470	*	440 – 470	300	525	2.5	13	7.1
EWC490	400 N	465 – 490	300	545	2.5	13	7.3
EWC510	400 H	480 – 510	300	565	2.5	13	7.6
EWC525	*	495 – 525	300	580	2.5	13	7.9
EWC540	*	510 – 540	300	595	2.5	13	8.1
EWC550	*	520 – 550	300	605	2.5	13	8.2
EWC560	450 H	530 – 560	300	615	2.5	13	8.4
EWC570	*	540 – 570	300	625	2.5	13	8.5
EWC580	*	555 – 580	300	635	2.5	13	8.7
EWC600	500 N	570 – 600	300	655	2.5	13	9.0
EWC620	500 H	590 – 620	300	675	2.5	13	9.3

All EWC couplings are also available in **NBR-quality (oil- and petrol resistant)** and/or in **V4A (1.4404)** for an additional charge.

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All EWC couplings from this table are **always** custom-made and can **not** be refunded!

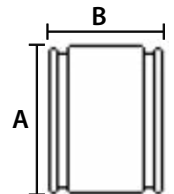
Coupling Type 2B EWLC



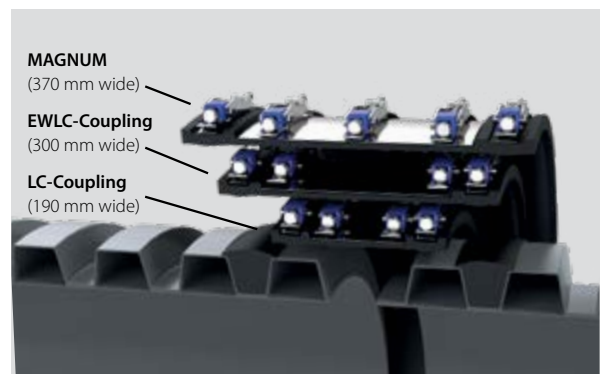
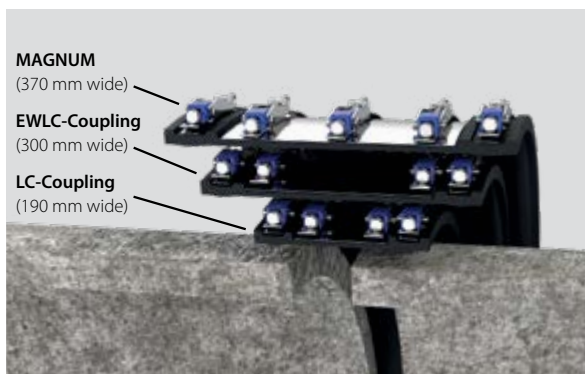
Product Description:

Product Name	Coupling Type 2B EWLC, Extra Wide (300 mm wide)
Product Group	Couplings

- for the connection of all types of sewage pipes (from OD 620 mm)
- produced individually according to customer specifications (production in 5 mm-steps)
Size of the coupling = pipe OD $\pm$ 15 mm
- The width of 300 mm allows a greater tolerance when cutting the tip end.
- A – Ext. diameter of the coupling =
inside manufacturing dimensions + 80 mm clamping unit
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)
- clamping range: 30 mm
- If the OD difference is > 12 mm, the use of bushes (page 12) is mandatory.



Application:



Type 2B – Can be used for pipes of all materials (the clamping range of the EWLC coupling is 30 mm!)

Product Code	Pipe (OD-Price range)	Width – B (mm)	Pressure (bar)	Torque (Nm)
EWLC6xx	620 – 680	300	1.5	20
EWLC7xx	681 – 780	300	1.5	20
EWLC8xx	781 – 880	300	1.5	20
EWLC9xx	881 – 980	300	1.5	20
EWLC10xx	981 – 1080	300	1.0	25
EWLC11xx	1081 – 1180	300	1.0	25
EWLC12xx	1181 – 1280	300	1.0	25
EWLC13xx	1281 – 1380	300	1.0	25
EWLC14xx	1381 – 1480	300	0.6	25
The following EWLC sizes are produced with three clamping units to guarantee better performance.				
EWLC15xx	1481 – 1580	300	0.6	25
EWLC16xx	1581 – 1680	300	0.6	25
EWLC17xx	1681 – 1780	300	0.6	25
EWLC18xx	1781 – 1880	300	o. G.	25
EWLC19xx	1881 – 1980	300	o. G.	25
EWLC20xx	from 1981	300	o. G.	25

All EWLC couplings are also available in **NBR-quality (oil- and petrol resistant)** and/or in **V4A (1.4404)** for an additional charge.

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All EWC couplings from this table are **always** custom-made and can **not** be refunded!

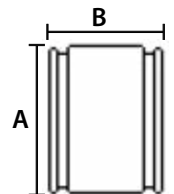
Coupling Type 2B MAG, MAGNUM



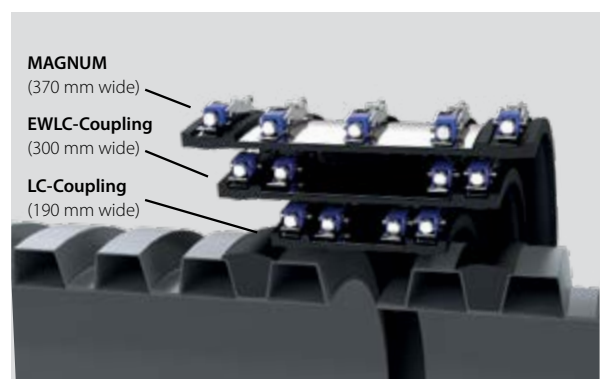
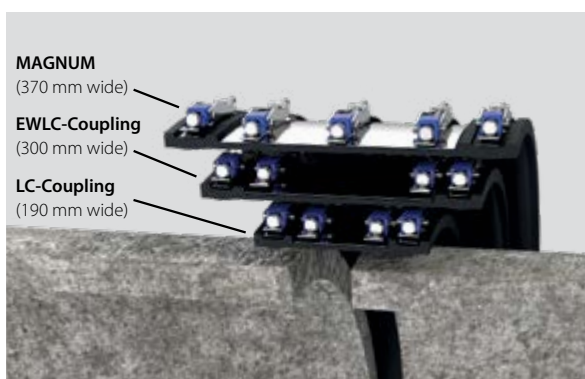
Product Description:

Product Name	Coupling Type 2B MAG, Magnum (370 mm wide)
Product Group	Couplings

- for the connection of all types of sewage pipes from OD 320 mm
- The width of 370 mm allows a greater tolerance when cutting the tip end, as well as a greater movement margin of the pipe during settling and thermal expansion.
- High compressive strength achieved by using 5 high-quality heavy-duty clamping units.
- pressure tight up to 4 bar
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- clamping range above MAG 620 mm: 30 mm
- If the OD difference is > 12 mm, the use of bushes (page 12) is mandatory.



Application:



Product Code	Size Clay Pipe DN	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
MAG320	*	300 – 320	370	400	4.0	20	7.1
MAG335	250 H	315 – 335	370	415	4.0	20	7.4
MAG345	*	325 – 345	370	425	4.0	20	7.6
MAG360	300 N	340 – 360	370	440	4.0	20	7.9
MAG385	300 H	365 – 385	370	465	4.0	20	8.5
MAG410	*	390 – 410	370	490	2.5	20	9.0
MAG425	350 N	405 – 425	370	505	2.5	20	9.3
MAG435	*	415 – 435	370	515	2.5	20	9.4
MAG445	350 H	425 – 445	370	525	2.5	20	9.8
MAG450	*	430 – 450	370	530	2.5	20	9.9
MAG465	*	445 – 465	370	545	2.5	20	10.2
MAG470	*	450 – 470	370	550	2.5	20	10.3
MAG490	400 N	470 – 490	370	570	2.5	20	10.7
MAG510	400 H	490 – 510	370	590	2.5	20	11.1
MAG525	*	505 – 525	370	605	2.5	20	11.5
MAG540	*	520 – 540	370	620	2.5	20	11.8
MAG550	*	530 – 550	370	630	2.5	20	12.0
MAG560	450 H	540 – 560	370	640	2.5	20	12.2
MAG570	*	550 – 570	370	650	2.5	20	12.4
MAG580	*	560 – 580	370	660	2.5	20	12.6
MAG600	500 N	580 – 600	370	680	2.5	20	13.1
MAG620	500 H	600 – 620	370	700	2.5	20	13.5

CAUTION: All MAG couplings from this table are **always** custom-made and can **not** be refunded!

Type 2B – Can be used for pipes of all materials (the clamping range of each MAG coupling > 620 mm is 30 mm!)

Product Code	Pipe (OD-Price Range)	Width – B (mm)	Pressure (bar)	Torque (Nm)
MAG6xx	620 – 680	370	1.5	20
MAG7xx	681 – 780	370	1.5	20
MAG8xx	781 – 880	370	1.5	20
MAG9xx	881 – 980	370	1.5	20
MAG10xx	981 – 1080	370	1.0	25
MAG11xx	1081 – 1180	370	1.0	25
MAG12xx	1181 – 1280	370	1.0	25
MAG13xx	1281 – 1380	370	1.0	25
MAG14xx	1381 – 1480	370	0.6	25
For better safety all MAG couplings with the following sizes are produced with three clamping units!				
MAG15xx	1481 – 1580	370	0.6	25
MAG16xx	1581 – 1680	370	0.6	25
MAG17xx	1681 – 1780	370	0.6	25
MAG18xx	1781 – 1880	370	o. G.	25
MAG19xx	1881 – 1980	370	o. G.	25
MAG20xx	over 1981	370	o. G.	25

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All EWC couplings from this table are **always** custom-made and can **not** be refunded!

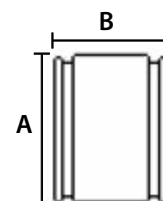
Universal Coupling Type 2B1, ALL-IN-ONE



Product Description:

Product Name	Coupling Type 2B1, ALL-IN-ONE
Product Group	Couplings

- connects any pipes of the same nominal diameter regardless of the differences in OD, providing it is within its size range.
- quick and easy to install – no special tools required
- Improved profile ensures the rubber doesn't collapse when installed to a pipe within its size range.
- The variable reducer shear band made of a special aluminium alloy ensures shear stability.
- EPDM sealing element according to DIN EN 295-4
- high quality clamp bands made from 1.4404 stainless steel – at no extra charge!
- reduces the need to carry excessive inventory
- meets all criteria of DIN EN 295-4



Installation:



Slide the coupling over the larger pipe and then tighten with the necessary torque.



Slide the smaller pipe into the open side of the coupling.



Now tighten the narrow clamp band. Pipe connection complete!

Product Code	Size DN	Range (mm) small side large side	Application Examples	Width – B (mm)	Ext. Dim. – A (mm)	Net Weight (kg)
2B1-100	100	108 – 133		180	205	1.8
2B1-125	125	123 – 161		180	235	2.1
2B1-150	150	160 – 196		180	270	2.5
2B1-150B*	150	160/168/170 – 226 200 – 226	DN 150 (PVCu, Cast Iron, GRP, Ductile Iron to Concrete OD 200-225mm)	180	300	3.9
2B1-200S	200	175 – 226		180	300	2.8
2B1-200L*	200	200/210/220/222/225/230/235 – 261 220 – 261	DN 200 (PVCu, PVC, Cast Iron, GRP, Ductile Iron, Robukan, HDPE, UR II, Clay normal load, Clay high load, Concrete OD 240-260 mm)	180	335	4.4
2B1-220	200	215 – 261		180	335	3.1
2B1-280	250	230 – 280		180	350	3.5
2B1-290	250	240 – 290		180	360	3.6
2B1-305	250	255 – 305		180	375	4.1
2B1-305L*	250	250/272/274-305 260 – 305	DN 250 (PVCu, Cast Iron, GRP, Ductile Iron, HDPE, UR II, Clay normal load)	180	375	5.1
2B1-320	250	270 – 320		180	400	4.3
2B1-320L*	250	250/272/274/280/299 – 320 270 – 320	DN 250 (PVCu, Cast Iron, GRP, Ductile Iron, HDPE, UR II, Clay normal load, Clay high load, Concrete up to OD 320 mm)	180	400	6.5
2B1-345	300	295 – 345		180	420	4.1
2B1-360	300	310 – 360		180	440	4.9
2B1-390	300	340 – 390		180	470	5.1
2B1-390L*	300	315/324/326/335/355 – 390 340 – 390	DN 300 (PVCu, Cast Iron, GRP, Ductile Iron, HDPE, UR II, Clay normal load, Clay high load, Concrete up to OD 385 mm)	180	470	7.2
2B1-445	300	395 – 445		180	525	5.4
2B1-465	300	415 – 465		180	545	5.9
2B1-300B*	300	315/376-460 420 – 460	DN 300 (PVCu, HDPE, Clay high load to Concrete OD 420-460 mm)	180	545	13.2
2B1-540	400	490 – 540		180	620	6.6
2B1-570	400	520 – 570		180	650	7.1

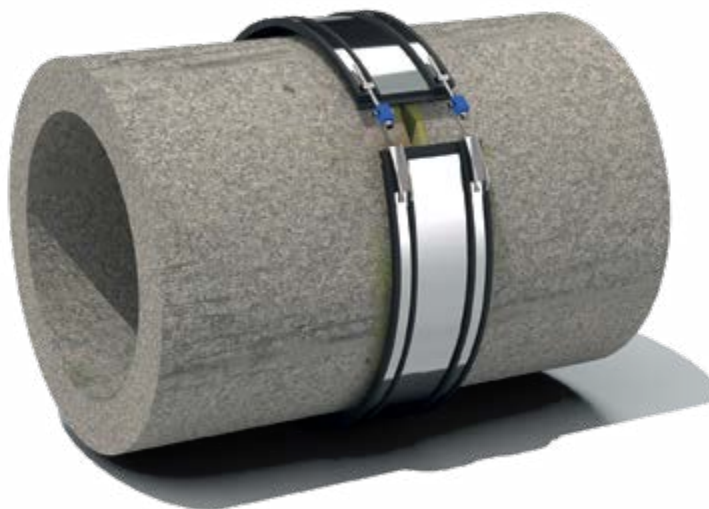
Transition PVCu to Concrete – circular

Product Code	Size DN	Range (mm) small side large side	Application Examples	Width – B (mm)	Ext. Dim. – A (mm)	Net Weight (kg)
2B1-150B*	150	160/168/170 – 226 200 – 226	DN 150 PVCu to Concrete / Reinforced Concrete DN 150 / OD 200-225 mm	180	300	3.9
2B1-200L*	200	200/210/220/222/225/230/235 – 261 220 – 261	DN 200 PVCu to Concrete / Reinforced Concrete DN 200 / OD 240-260 mm	180	335	4.4
2B1-320L*	250	250/272/274/280/299 – 320 270 – 320	DN 250 PVCu to Concrete / Reinforced Concrete DN 250 / OD 280-320 mm	180	400	6.5
2B1-390L*	300	315/324/326/335/355 – 390 340 – 390	DN 300 PVCu to Concrete, old / OD 370-385 mm	180	470	7.2
2B1-300B*	300	315/376 – 460 420 – 460	DN 300 PVCu to Concrete / Reinforced Concrete DN 300 / OD 420-460 mm	180	545	13.2

* incl. bush as a supplement to the 2B1 coupling for bridging larger diameter differences or when the minimum clamping range is not reached.

Other sizes available on request.

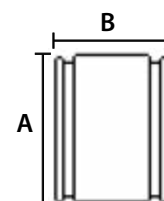
Wraparound Coupling WRC, OPEN VERSION



Product Description:

Product Name	Wraparound Coupling WRC, OPEN VERSION (190 mm wide)
Product Group	Couplings

- for the repair of damaged pipes
- reduced time and material expenditure, as no piece of pipe has to be removed from the pipeline
- Up to 620 mm, the sizes are available analog to the standard couplings type 2B (e.g. SC310, SC320 etc.)
- in principle: **Size of the coupling = OD pipe $\pm$ 10 mm**
- When ordering, please specify the exact outer diameter of the damaged pipe, **measured at the point of damage!**
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)



Installation:



Apply adhesive to one end of the profile and press against the other end for a few seconds.



Apply a few drops of adhesive to 2-3 places on the metal bridge and press them onto the joint for a few seconds.



Put the shear band and the tensioning straps around the coupling. Tighten all of the bands on the coupling equally.

Type 2B split 190 mm wide repair couplings (These couplings allow assembly with pre-installed pipes!)

Product Code	Pipe (OD-Price Range)	Width – B (mm)	Pressure (bar)	Torque (Nm)
WRC3xx	300 – 385	190	o. G.	13
WRC4xx	386 – 485	190	o. G.	13
WRC5xx	486 – 585	190	o. G.	13
WRC6xx	586 – 685	190	o. G.	20
WRC7xx	686 – 785	190	o. G.	20
WRC8xx	786 – 885	190	o. G.	20
WRC9xx	886 – 985	190	o. G.	20
WRC10xx	986 – 1085	190	o. G.	25
WRC11xx	1086 – 1185	190	o. G.	25
WRC12xx	1186 – 1285	190	o. G.	25
WRC13xx	1286 – 1385	190	o. G.	25
WRC14xx	1386 – 1485	190	o. G.	25
WRC15xx	1486 – 1585	190	o. G.	25
WRC16xx	1586 – 1685	190	o. G.	25
WRC17xx	1686 – 1785	190	o. G.	25
WRC18xx	1786 – 1885	190	o. G.	25
WRC19xx	1886 – 1985	190	o. G.	25
WRC20xx	1986 – 2085	190	o. G.	25
WRC21xx	from 2086	190	o. G.	25

The clamping range of each WRC coupling is 20 mm!

All WRC couplings are also available in **NBR quality (oil and petrol resistant)** and/or in **V4A (1.4404)** for an additional charge.

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All WRC couplings from this table are **always** custom-made and can **not** be refunded!

The connection point is secured with the click profile.



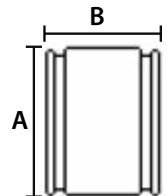
Wraparound Coupling MAGWRC



Product Description:

Product Name	Wraparound Coupling MAGWRC, OPEN VERSION (370 mm wide)
Product Group	Couplings

- for the repair of damaged pipes
- reduced time and material expenditure, as no piece of pipe has to be removed from the pipeline
- available in any size in the range from 370 mm to 2100 mm
- manufactured in 5 mm-steps from 620 mm
- in principle: **Size of the coupling = OD Pipe $\pm$ 10 mm**
- When ordering, please specify the exact outer diameter of the damaged pipe, **measured at the point of damage!**



Installation:



Apply adhesive to one end of the profile and press against the other end for a few seconds.



Apply a few drops of adhesive to 2-3 places on the metal bridge and press them onto the joint for a few seconds.



Put the shear band and the tensioning straps around the coupling. Tighten all of the bands on the coupling equally.

Type 2B Split 370 mm wide repair couplings (These couplings allow assembly with pre-installed pipes!)

Product Code	Pipe (OD-Price Range)	Width – B (mm)	Pressure (bar)	Torque (Nm)
MAGWRC3xx	300 – 385	370	o. G.	20
MAGWRC4xx	386 – 485	370	o. G.	20
MAGWRC5xx	486 – 585	370	o. G.	20
MAGWRC6xx	586 – 685	370	o. G.	20
MAGWRC7xx	686 – 785	370	o. G.	20
MAGWRC8xx	786 – 885	370	o. G.	20
MAGWRC9xx	886 – 985	370	o. G.	20
MAGWRC10xx	986 – 1085	370	o. G.	25
MAGWRC11xx	1086 – 1185	370	o. G.	25
MAGWRC12xx	1186 – 1285	370	o. G.	25
MAGWRC13xx	1286 – 1385	370	o. G.	25
MAGWRC14xx	1386 – 1485	370	o. G.	25
MAGWRC15xx	1486 – 1585	370	o. G.	25
MAGWRC16xx	1586 – 1685	370	o. G.	25
MAGWRC17xx	1686 – 1785	370	o. G.	25
MAGWRC18xx	1786 – 1885	370	o. G.	25
MAGWRC19xx	1886 – 1985	370	o. G.	25
MAGWRC20xx	1986 – 2085	370	o. G.	25
MAGWRC21xx	over 2086	370	o. G.	25

The clamping range of each MAGWRC coupling is 20 mm!

CAUTION: The specification of the outer diameter of the pipe(s) is absolutely **necessary** for the production. All MAGWRC couplings from this table are **always** custom-made and can **not** be refunded!

Drainage Coupling DC / PC

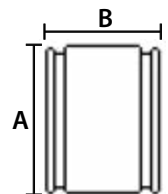


Product Description:

Product Name Drainage Coupling DC / PC

Product Group Couplings

- for connecting pipes of all types and materials with the same or similar outside diameters
- for use in drainage systems, when no consideration of shear loads is required
- When used with a vitrified clay pipe, these seals meet the requirements of DIN EN 294, part 4.
- Possible applications:
 - repair of existing pipes by replacing short sections
 - connecting sleeveless pipes
 - adapter between pipes of different materials with similar outer diameters
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- selected DC couplings also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)



Installation:



Loosen the clamp bands and slide the sleeve onto the first tube. No lubricant required.



Mark half of the cuff width at the end of the second tube.



Push the second tube into the cuff up to the mark.



Tighten the clamp bands one after the other to the recommended torque.

Product Code	Range (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Torque (Nm)	Pressure (bar)	Net Weight (kg)
PC035	30 – 35	70	60	6	0.6	0.2
PC043	38 – 43	70	70	6	0.6	0.2
DC050	40 – 50	90	75	6	0.6	0.2
PC056	48 – 56	70	80	6	0.6	0.2
PQ058_X4	50 – 58	70	85	6	0.6	0.2
DC065	50 – 65	90	90	6	0.6	0.3
PC068	60 – 68	80	95	6	0.6	0.2
DC075	70 – 76	110	100	6	0.6	0.3
PC076	68 – 76	80	95	6	0.6	0.3
PC085	76 – 85	80	100	6	0.6	0.3
PC092	85 – 92	80	110	6	0.6	0.3
DC095	80 – 95	100	120	6	0.6	0.4
PC100	92 – 100	80	125	6	0.6	0.3
DC115	100 – 115	100	140	6	0.6	0.5
DC125	110 – 125	100	150	6	0.6	0.7
DC135	120 – 135	120	165	6	0.6	0.7
DC150	135 – 150	120	180	6	0.6	0.7
DC165	150 – 165	120	195	6	0.6	0.8
DC175	160 – 175	120	205	6	0.6	0.8
DC185	170 – 185	120	215	6	0.6	0.8
DC195	180 – 195	120	225	6	0.6	0.8
DC215	200 – 215	150	245	6	0.6	1.2
DC225	210 – 225	150	255	6	0.6	1.2
DC250	235 – 250	150	280	6	0.6	1.2
DC265	250 – 265	150	295	13	0.6	1.3
DC275	260 – 275	150	305	13	0.6	1.5

Selected DC couplings are also available at extra cost in **NBR quality (oil and petrol resistant) – plus 25 %** and/or in **V4A (1.4404) – plus 20 % of the list price**.

The width may vary. Please ask our technical sales department. Larger sizes on request.

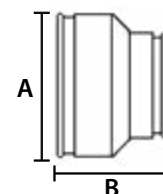
Adaptor Coupling AC



Product Description:

Product Name	Adaptor Coupling AC
Product Group	Couplings

- for connecting pipes of all types and materials with different outside diameters
- suitable for connections without shear load requirements
- mind the direction of flow when installing
- pressure tight up to 0.6 bar
- made of EPDM according to DIN EN 681-1 and V2A (1.4301) as standard
- selected AC Couplings also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)



Installation:



Loosen the clamp bands and slide the sleeve onto the first tube. No lubricant required.



Mark half of the cuff width at the end of the second tube.



Push the second tube into the cuff up to the mark.



Tighten the clamp bands one after the other to the recommended torque.

Product Code	OD-Range 1 (mm)	OD-Range 2 (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Torque (Nm)	Pressure (bar)	Net Weight (kg)
PAC0301	30 – 34	24 – 28	80	60	6	0.6	0.1
PQ040-032_X4	32 – 40	24 – 32	80	60	6	0.6	0.1
PAC0431	38 – 43	30 – 35	80	70	6	0.6	0.2
PQ050-032_X4	40 – 50	24 – 32	80	70	6	0.6	0.2
PAC0562	48 – 56	38 – 43	80	80	6	0.6	0.2
PAC0682	60 – 68	38 – 43	80	95	6	0.6	0.2
PAC0923	82 – 92	48 – 56	80	120	6	0.6	0.3
PAC0924	82 – 92	60 – 68	80	120	6	0.6	0.3
AC0633	53 – 63	40 – 50	90	90	6	0.6	0.2
AC0894	75 – 89	53 – 63	90	115	6	0.6	0.3
AC1155	100 – 115	75 – 90	90	140	6	0.6	0.4
AC1201	105 – 120	35 – 45	100	145	6	0.6	0.4
AC1221	110 – 122	80 – 95	100	150	6	0.6	0.5
AC1225	110 – 122	48 – 56	100	150	6	0.6	0.4
AC1226	110 – 122	60 – 68	100	150	6	0.6	0.4
AC5144	110 – 125	100 – 115	100	150	6	0.6	0.6
AC1361	121 – 136	80 – 95	100	160	6	0.6	0.5
AC1362	121 – 136	100 – 115	100	160	6	0.6	0.5
AC4000	121 – 136	110 – 121	100	160	6	0.6	0.5
AC1452	130 – 145	110 – 125	120	170	6	0.6	0.6
AC1552	140 – 155	90 – 105	120	180	6	0.6	0.6
AC1602	144 – 160	110 – 122	120	185	6	0.6	0.7
AC1603	144 – 160	121 – 136	120	185	6	0.6	0.8
AC1702	155 – 170	110 – 125	120	195	6	0.6	0.8
AC1703	155 – 170	130 – 145	120	195	6	0.6	0.8
AC1922	170 – 192	110 – 122	120	220	6	0.6	0.9
AC1923	170 – 192	121 – 136	120	220	6	0.6	0.9
AC1924	170 – 192	144 – 160	120	220	6	0.6	0.9
AC2000	180 – 200	130 – 145	150	225	6	0.6	1.2
AC2001	180 – 200	155 – 170	150	225	6	0.6	1.2
AC6000	180 – 200	160 – 180	150	225	6	0.6	1.1
AC2100	185 – 210	100 – 115	150	235	6	0.6	1.2
AC2101	185 – 210	160 – 180	150	235	6	0.6	1.2
ACOS2152*	195 – 215	100 – 115	150	240	6	0.6	1.4
AC2154	190 – 215	150 – 165	150	240	6	0.6	1.2
AC2254	200 – 225	160 – 175	150	250	6	0.6	1.3
AC2352	210 – 235	110 – 122	150	260	6	0.6	1.4
AC2353	210 – 235	121 – 136	150	260	6	0.6	1.4
AC2354	210 – 235	144 – 160	150	260	6	0.6	1.4
AC2355	210 – 235	170 – 192	150	260	6	0.6	1.4
AC2356	210 – 235	190 – 215	150	260	6	0.6	1.5
AC2654	240 – 265	144 – 160	150	290	6	0.6	1.7
AC2655	240 – 265	170 – 192	150	290	6	0.6	1.7
AC2656	240 – 265	190 – 215	150	290	6	0.6	1.7
AC2657	240 – 265	210 – 235	150	290	6	0.6	2.0
AC2754	250 – 275	160 – 175	150	300	6	0.6	2.0
AC2756	250 – 275	200 – 225	150	300	6	0.6	2.0
AC9001	260 – 285	180 – 205	150	310	13	0.6	2.3
AC2904	265 – 290	144 – 160	150	315	13	0.6	2.0
AC2907	265 – 290	210 – 235	150	315	13	0.6	2.0
AC2908	265 – 290	235 – 260	150	315	13	0.6	2.0
ACOS2956*	270 – 295	185 – 210	150	320	13	0.6	2.5
AC3204	295 – 320	144 – 160	150	345	13	0.6	3.0
AC3205	295 – 320	170 – 192	150	345	13	0.6	3.0
AC3207	295 – 320	210 – 235	150	345	13	0.6	2.5
AC3208	295 – 320	240 – 265	150	345	13	0.6	2.5
AC3209	295 – 320	265 – 290	150	345	13	0.6	2.5
ACOS3351*	310 – 335	180 – 205	150	360	13	0.6	2.6
AC3608	335 – 360	240 – 265	165	390	13	0.6	3.5
AC3609	335 – 360	265 – 290	165	390	13	0.6	3.5
AC3600	335 – 360	295 – 320	165	390	13	0.6	3.0
AC3858	360 – 385	240 – 265	165	415	13	0.6	3.5
AC3850	360 – 385	300 – 325	165	415	13	0.6	3.0
AC4208	395 – 420	240 – 265	165	450	13	0.6	4.0
AC4209	395 – 420	265 – 290	165	450	13	0.6	4.0

* eccentric version

Selected adaptors are also available in **NBR** quality (oil and petrol resistant) – plus 25 % and/or in **V4A (1.4404)** – plus 20 % of the list price.

Adaptor Coupling AR

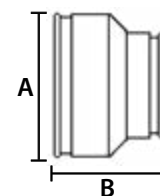


Product Description:

Product Name Adaptor Coupling AR

Product Group Couplings

- for connecting ribbed plastic pipes with pipes of all types and materials and different outside diameters
- Fast and efficient method for connecting pipes of different materials and outside diameters
- with an extra wide clamping band to ensure high sealing performance on the pipe ribs
- made of EPDM according to DIN EN 681-1 and V2A (1.4301) as standard
- also available with V4A (1.4404) clamp bands if required
- pressure tight up to 0.6 bar



Product Code	OD-Range 1 (mm)	OD-Range 2 (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Torque (Nm)	Pressure (bar)	Net Weight (kg)
AR1500	170 – 191	160 – 170	100	215	6	0.6	0.7
AR2250	260 – 285	240 – 250	130	310	13	0.6	1.8
AR3000	360 – 385	325 – 335	160	415	13	0.6	2.8

Narrow Coupling NC



Product Description:

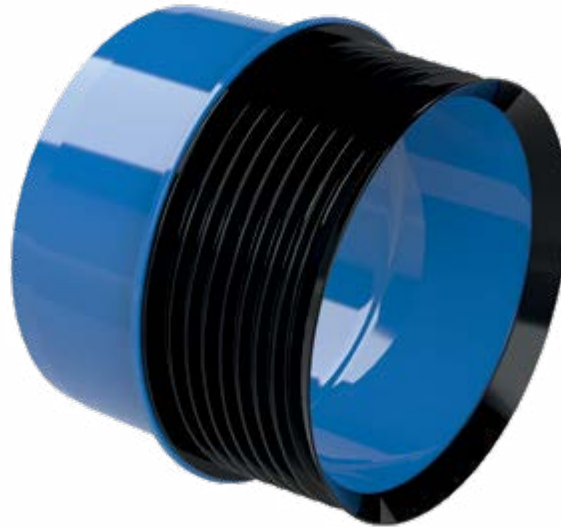
Product Name	Narrow Coupling NC
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Product Group	Couplings
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- Only 75 mm wide – ideal for use where space is limited
- Suitable for use in underground and above-ground drainage systems, outside and inside buildings
- High performance and reliable connections
- for repairs or pipe connections
- made of EPDM according to 681-1 and V2A (1.4301) as standard
- also available with V4A (1.4404) clamp bands if required
- Pressure-tight up to 0.6 bar
- **custom-made – all sizes and prices available on request**



Inside/Outside-Adaptor IA



Product Description:

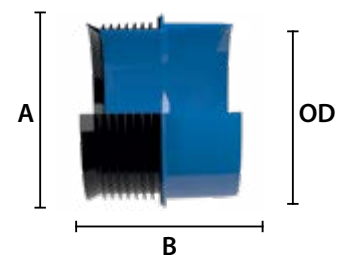
Product Name Inside/Outside-Adaptor IA

Product Group Internal Couplings

- connects all pipes with the same inside diameter that are circular on the inside, such as concrete pipes with flat-base, reinforced pipes /wall ducts or vitrified clay pipes
- pushfit connection – no tools required
- easy installation – within minutes
- safe against shear loads
- no cleaning of the outside surfaces required
- rubber sleeve made of EPDM with sealing lips for a watertight seal > 0.5 bar
- matches all criteria of DIN EN 295-4



DIN EN 681-1



Installation:



Clean the inner surface of the pipe and apply some lubricant to the inside.



Push the IA-Adaptor up to the product's pipe stop into the pipe/borehole.



Slide the socket of the plastic pipe to the other side of the adaptor.



When installing the IA-Adaptor in conjunction with a coupling, the second side of the adaptor is used as the pipe plain end.

Product Code	Size DN	Inside Diameter ID (mm)	Outside Diameter OD (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Net Weight (kg)
IA100	100	99 – 104.5	110	125	130	0.3
IA125	125	123 – 127	125	170	145	0.5
IA150	150	147.5 – 153	160	170	180	0.6
IA200	200	198 – 202	200	175	220	0.8
IA225-250	225/250	220 – 225	250	210	270	1.6
IA250	250	248 – 252	250	175	270	1.3
IA300	300	298 – 302	315	200	333	1.5

Application examples:

existing pipe



flat bottomed
concrete pipes



flush cut pipe



pipes with
irregular surface



pipes with
damaged surface

Inside/Outside-Adaptor



further connection



2B1

for differing
pipe sizes



SC

for same
sized pipes



direct

to PVC socket



AC

for differing
pipe sizes



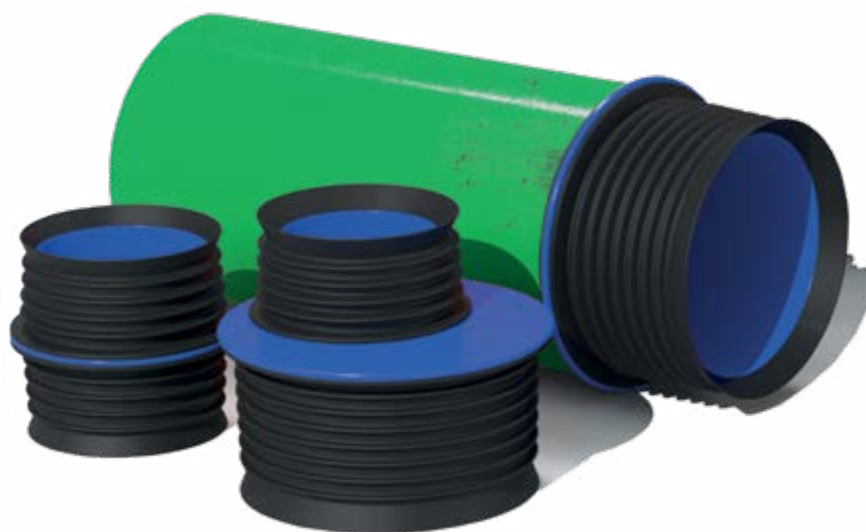
DC

for same
sized pipes

Connection to pipe spigots

for pressureless connections

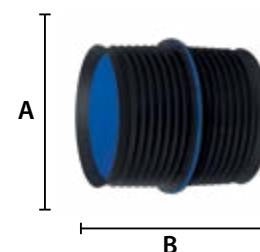
Internal Coupling Pushfit ICP



Product Description:

Product Name	Internal Coupling Pushfit ICP
Product Group	Internal Couplings

- for pipes with different outside diameters
- pushfit connection – no tools required
- can be installed in 30 seconds
- will connect any pipes with a similar internal diameter
- watertight connection with any pipe material
- no cleaning of the outside surfaces required
- pipe stop indicates that the product is properly installed, when it is flush to the pipe end
- tested to 2.5 bar inline pressure
- meets all test criteria of DIN EN 295-4



Installation:



Clean the internal surface of the pipe from slurry and debris.



Push the Pushfit into pipe 1 up to the product's pipe stop.



Push pipe 2 onto the opposite end of the Pushfit.



Ensure that the tapered edge on the rubber sleeve does not fold back when inserting into the pipe.

Same Inside Diameter

Product Code	Size DN	Inside Diameter (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Net Weight (kg)
ICP95	100	93 – 98	110	120	0.2
ICP100	100	99 – 104.5	110	120	0.2
ICP150	150	147.5 – 153	171	172	0.7

Redution – Differing inside diameters: off-center / equal bottomed

Product Code	Size DN	Inside Diameter (mm)	Width – B (mm)	Ext. Dim. – A (mm)	Net Weight (kg)
ICP95-100	100	93 – 98 / 99 – 103	110	120	0.5
ICP95-150	100/150	93 – 98 / 147.5 – 153	141	172	0.5
ICP100-150	100/150	99 – 103 / 147.5 – 153	141	172	0.5

Application Example ICP95-100:

For rainwater downpipes with an inner diameter of 95 mm for connection to PVCu, vitrified clay, cat iron or other types of pipes with an inner diameter of 100 mm.



The Pushfit coupling connects pipes, such as plastic, Cast Iron and steel pipes with different outer diameters via the inner pipe surface, if for various reasons a normal sleeve seal cannot be used.

Internal Coupling ICON IC



Product Description:

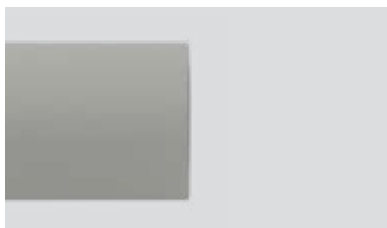
Product Name Internal Coupling ICON IC

Product Group Internal Couplings

- for pipes with different outside diameters
- no special tools are required
- Due to the long service life, there are no additional costs for monitoring and maintenance.
- made of EPDM according to 681-1 and V2A (1.4301)
- pressure tight up to 0.6 bar
- For the connection of PVCu pipes of nominal sizes DN 200, DN 250 and DN 400, an overrunning sleeve may also be required to meet any differences in internal diameter. This is the only way to safely bridge the diameters!



Installation:



Ensure a defect free surface. For concrete pipes, lubricate the inside surface.



Place the coupling into the end of the pipe that is already laid in the ground.



Push the second pipe up to the stops on the coupling and tighten to the required torque.

ICON Suitable for pipes of all materials (within the specified tolerances)

Product Code	Size DN	ID (mm)	Width (mm)	Remark	Torque (Nm)	Net Weight (kg)
IC150	150	149 – 153	130		15	1.2
IC200-184	200	184 – 188	130		15	1.5
IC200-188	200	188 – 192	130		15	1.5
IC200	200	198 – 202	130		15	1.5
IC200+S200-KG	200	198 – 202	130	for KG incl. Drainage socket orange/brown	15	2.7
IC200+S200-PP	200	198 – 202	130	for PP/KG2000 incl. Drainage socket green	15	3.2
IC250	250	248 – 252	130		15	1.8
IC250+S250-KG	250	248 – 252	130	for KG incl. Drainage socket orange/brown	15	3.6
IC250+S250-PP	250	248 – 252	130	for PP/KG2000 incl. Drainage socket green	15	4.6
IC300	300	299 – 303	130		15	2.0
IC300-294	300	294 – 297 / 299 – 302	130	incl. Bush	15	2.1
IC400	400	398 – 402	130		15	3.0
IC400+S400-PP	400	398 – 402	130	for PP/KG2000 incl. Drainage socket green	15	11.7
IC500	500	498 – 502	130		15	4.0
IC600	600	598 – 602	130		15	5.0

Other sizes available on request.



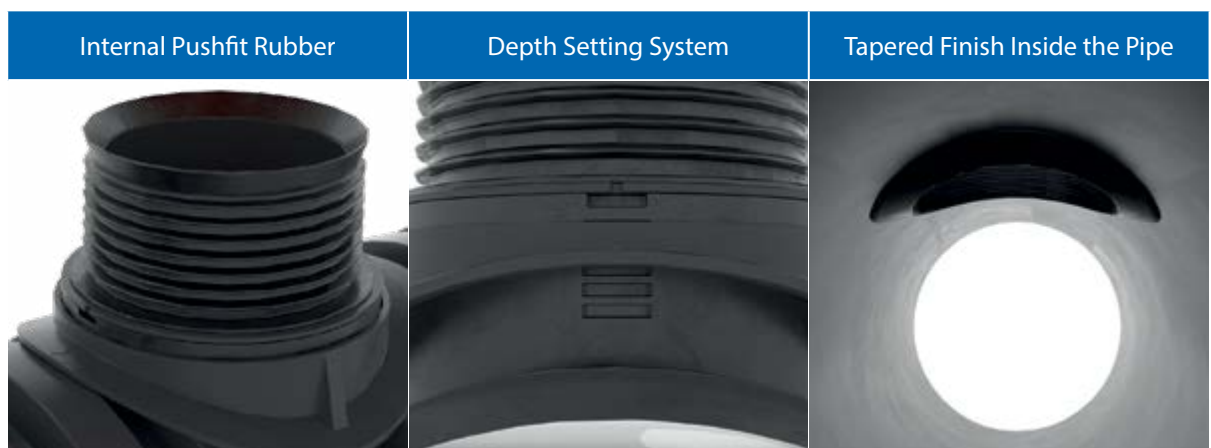
Saddle Storm-T ST



Product Description:

Product Name	Saddle Storm-T ST
Product Group	Lateral Connections

- for quick and universal lateral connection of DN 150-/160-pipes to many different materials, e.g. PVCu, double-walled and ribbed pipes from DN 300 to DN 600
- withstands an internal pipe pressure of 0.5 bar
- depth setting system allows universal connection to a multitude of pipe profiles and thicknesses
- pushfit design allows the lateral pipe to be connected without additional couplings or tools
- minimal time and installation effort
- no tools required - after core drilling, the entire installation is done by hand



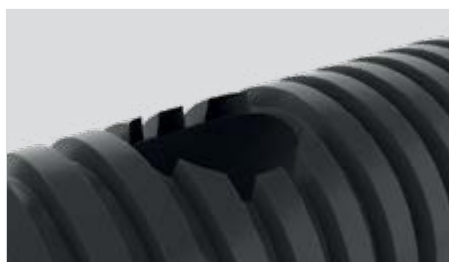
Product Code	DN Main Pipe	Wall Thickness Range (mm)	max. OD Main Pipe	ID (mm)	Size Lateral Pipe	Drilled Hole Size (mm)	Net Weight (kg)
ST150-300	250 – 300	5 – 30.5	355 mm	147.5 – 153	DN 150 / 160	177 +1/-0.5	1.2
ST150-375-450	375 – 450	5 – 45	540 mm	147.5 – 153	DN 150 / 160	177 +1/-0.5	1.2
ST150-500-600	500 – 600	10 – 60	720 mm	147.5 – 153	DN 150 / 160	177 +1/-0.5	1.2

The table is for guidance only. Please enquire with our technical sales department before finalising your product selection.

Don't know which connection element you need? Use our [comparison overview on page 116](#).

Varying discounts possible!

Installation:



With a suitable drill bit, drill the core hole $\varnothing$ 177 mm. Deburr and clean the hole edges.



Dismantle the saddle into its components: rubber body, plastic collar, pushfit insert with lateral seal (if necessary). Fold the rubber body in half and place it in the hole.



Unfold the rubber body and pull it upwards until the outer fin lies flat against the internal surface of the pipe. Ensure the notches on the rubber are inline with the length of the host pipe.



Evenly push the tabs on the collar into the installation slot at the top of the body until the collar touches the outer surface of the pipe.



Apply lubricant to the profile half of the EPDM-insert. Align the notches on the plastic insert according to the arrows on the collar. Push the plastic insert into the rubber body.



Install the lateral pipe. When using a pushfit rubber sleeve, ensure that the fin on the pushfit sleeve does not fold back when inserted into the pipe. Lubricant may be required on the rubber.

Saddle FAST



Product Description:

Product Name	Saddle FAST
Product Group	Lateral Connections



- for connecting pipes of all types to clay main pipes
- for connection to vitrified clay main pipes from DN 250N – 350H or jacking pipes 200 VT – 300 VT
- connection for plastic pipes with bush B12-190 (page 12)
- For easier installation, we recommend our Fernco impact aid ESH150B.
- All materials withstand normal ground conditions.
- In connection with bushes, all other types of DN 150 pipes can be connected, e.g.:
PVCu, Cast Iron, GRP, Ductile Iron, HDPE, PP

Product Code	Size DN (mm)	Core Drill (mm)	Net Weight (kg)
FA150ST	150 Clay	172 +1/-0	0.9
FA150ST-KG	150 PVCu / PP	172 +1/-0	1.4
LPA110*	100 PVCu / PVC	-	1.0
LPA130*	100 Clay	-	1.1
LPA180*	150 Clay	-	1.2

*more infos on page 52.

We recommend:



Product Code

Content

ESH150B

Impact Aid for FA-Saddle DN 150

For matching PA-Adaptors, see page 52.

Universal Saddle FAUNI



Product Description:

Product Name Universal Saddle FAUNI

Product Group Lateral Connections



- for connecting clay pipes or other pipe types DN 150 to main pipes from DN 250
- Clay pipes of nominal sizes DN 150 can be connected directly to the FAUNI element.
- Other types of pipe are easily connected with the patented Multibush MB150 (page 14).
- The main pipe must not be completely uncovered, the pipe can remain undamaged.
- The sleeve (DN 150) takes shear loads of more than 4 kN (requirements of the DIN: 1.5 kN) without impairing the function.

Product Code	lateral Pipe DN (mm)	Core Drill (mm)	Net Weight (kg)
FA150U	150 Clay	172 +1/-0	1.5
FA150U-MB	150 PVCu	172 +1/-0	2.1
FA150U-MB	150 Cast Iron	172 +1/-0	2.1
FA150U-MB	150 Ductile Iron	172 +1/-0	2.1
FA150U-MB	150 FRP	172 +1/-0	2.1
FA150U-MB	150 UR II	172 +1/-0	2.1

Depending on the nature and wall thickness of the main pipes, a different number of rings are required.

Wall thickness from 23 mm to 30 mm = 2 rings

Wall thickness from 28 mm to 40 mm = 1 rings

Wall thickness from 40 mm = 0 rings

Installation:



Drill a hole and make sure the area is clean and free from slurry/debris. Use the correct number of shims based on the wall thickness of the main pipe.



Remove the locking sleeve. Position the saddle in the hole. Break off the tabs from the locking sleeve and lubricate using water.



Drive the locking sleeve evenly around the circumference until fully locked. Tighten the clamp band to the recommended torque.

Saddle FAB

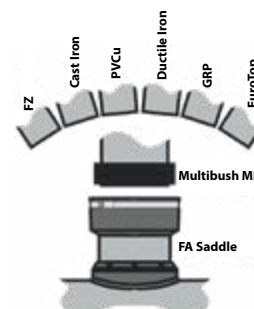


Product Description:

Product Name	Saddle FAB
Product Group	Lateral Connections



- for connecting pipes of all kinds on concrete and clay main pipes
- Clay pipes of nominal sizes DN 150 and DN 200 can be connected directly to the FA element.
- Other types of pipe are easily connected using the patented Multibush MB150 or MB200 (page 14).
- Connection to concrete main pipes with a wall thickness of 50 – 150 mm: FA150B from DN 300, FA200B for DN 400 and more
- The sleeve (DN 150) takes shear loads of more than 4 kN (requirements of the DIN: 1.5 kN) without impairing the function.
- minimum pipe wall thickness is 50 mm
- For easier installation, we recommend our Fernco impact aids.



We recommend:



Product Code	Content
ESH150B	Impact Aid for FA-Sadde DN 150
ESH200B	Impact Aid for FA-Saddle DN 200

Product Code	Size DN (mm)	Core Drill (mm)	main pipe from DN (mm)	Net Weight (kg)
FA150BS	150 Clay	172 +1/-0	300	2.5
FA150BS-MB	150 PVCu	172 +1/-0	300	3.0
FA150BS-MB	150 Cast Iron	172 +1/-0	300	3.0
FA150BS-MB	150 Ductile Iron	172 +1/-0	300	3.0
FA150BS-MB	150 GRP	172 +1/-0	300	3.0
FA150BS-MB	150 UR II	172 +1/-0	300	3.0
FA200B	200 Clay	232 +1/-0	400	3.5
FA200B-MB	200 PVCu	232 +1/-0	400	4.8
FA200B-MB	200 Cast Iron	232 +1/-0	400	4.8
FA200B-MB	200 Ductile Iron	232 +1/-0	400	4.8
FA200B-MB	200 GRP	232 +1/-0	400	4.8
FA200B-MB	200 UR II	232 +1/-0	400	4.8
ESH150B	Attention: different discounts			0.6
ESH200B	Attention: different discounts			0.9

Not sure which connection element you need? Use our **comparison overview on page 116**.

Installation:



Make a core hole and deburr the hole.



Adjust the screw collar according to the wall thickness.



Place the element flush, observe the radius.



Remove the transport lock from the clamping sleeve. Water the clamping sleeve and the element.



Drive in the clamping sleeve flush with the Impact Aid.



Tighten the tensioning strap with 6 Nm.

Saddle FAKG



Product Description:

Product Name	Saddle FAKG
Product Group	Lateral Connections



- for connecting PVCu DN 150 and DN 200 to concrete pipes and shafts (according to DIN 4034-1).
- high-quality elastomer according to DIN 681-1
- A permanent and tight connection is ensured by circumferential locking lips.
- Due to the special construction of the mold, the feeding of the connecting pipe into the main pipe is prevented.
- An exact core drilling of 186 mm (DN 150) or 226 mm (DN 200) is required to install the FAKG connection.
- The nozzle, which is inserted as far as the stop, is used to hold a PVCu connection pipe DN 150 or DN 200.
- DiBt-approved

Product Code	Lateral Pipe	main pipe OD (mm)	Core Drill (mm)	Pressure (bar)	Net Weight (kg)
FA150KG	PVCu / Cast Iron DN 150	300	186 ± 1.8	0.6	1.3
FA200KG	PVCu DN 200	400	226 ± 2	0.6	2.0

Saddle TA



Product Description:

Product Name	Saddle TA
Product Group	Lateral Connections

- fast and inexpensive way to connect PVCu or cast-pipes DN 100, 150 and 200 to all smooth-walled main pipes up to a OD of 600 mm
- Sealing element made of high-quality PVC and neoprene. Connection sleeve made of a thermoplastic elastomer
- all steel parts made of a stainless steel of grade 1.4301 (V2A)
- At least 3 fastening units ensure that the complete sealing element is always firmly positioned on the main pipe.
- pressure-tight to at least 0.6 bar
- You can find the right drill bit on page 84.

Product Code	Lateral Pipe	Main Pipe OD (mm)	Core Drill (mm)	Pressure (bar)	Net Weight (kg)
TA11090	PVCu / Cast Iron DN 100	160 – 400	127	0.6	3.0
TA11045	PVCu / Cast Iron DN 100	160 – 400	oval	0.6	3.2
TA16090	PVCu / Cast Iron DN 150	250 – 400	172	0.6	4.8
TA16045	PVCu / Cast Iron DN 150	250 – 400	oval	0.6	5.2
TA20045	PVCu DN 200	300 – 600	oval	0.6	8.6

Installation:



If necessary, use the neoprene seal as a template. For the 45°-version, note the desired direction. Cut a hole according to the data sheet and clean the drill hole.



Position gasket and saddle over the hole. Cut the clamp bands supplied to the actual OD of the pipe.



Pass the clamp bands under the pipe and insert them into the stainless steel body on the other side until the band protrudes from under the hexagon head.



Check positioning of all parts. Tighten all clamps to 12 Nm and check with a torque spanner. Place the lateral pipe in the saddle and tighten the clamp band to 6 Nm. Fill the pipe bed.

Universal Saddle PA



Product Description:

Product Name	Universal Saddle PA
Product Group	Lateral Connections

- for the lateral connection of plastic pipes (PVCu, etc.) with an outer diameter of 160 mm to double-walled or corrugated and ribbed main pipes from DN 300
- resists an internal pressure of 0.5 bar
- The main pipe does not need to be completely uncovered, the pipe bed can remain undisturbed.
- The following information about the main pipe is required for correct selection:
 - pipe brand / manufacturer
 - nominal diameter

or two of the following three dimensions:

- wall thickness
- inner diameter
- outer diameter

Connection options:

With the optionally available PA adapters, you can also connect pipe types or pipe sizes other than DN 150 plastic to the PA saddle piece.

LPA110



Connection
DN 100 PVCu

LPA130



Connection
DN 100 Clay

LPA180



Connection
DN 150 Clay,
twin-walled pipes



Product Code	Inside Diameter Main Pipe (mm)	Wall thickness Main Pipe	Lateral Pipe DN (mm)	Core Drill (mm)	Net Weight (kg)
PA300-01	300	various	160 PVCu	177	1.6
PA400-01	400	various	160 PVCu	177	1.7
PA500-01	500	various	160 PVCu	177	1.7
PA600-01	600	various	160 PVCu	177	1.7
LPA110	connecting kit		100 PVCu		1.0
LPA130	connecting kit		100 Vitrified Clay		1.1
LPA180	connecting kit		150 Vitrified Clay		1.2

The table serves only as a guideline. Please enquire with our technical sales department before making your final product selection.

You do not know which connecting element you need? Use our **comparison overview on page 116**.

Varying discounts possible!

We recommend:

Product Code	Content
HS-K95-177	Hole saw for plastic pipes DN 150 (Core drilling 177 mm)

Installation:



Drill a core hole with 177 mm (+ 2mm / -0.5 mm) diameter.



Remove any burring or flashing from the edges of the hole.



Wipe the inside surface clean.



Apply lubricant to the outer face of the inner sleeve and seal in the area.



Insert the adaptor, as received, into the hole so that the saddle flange sits snugly onto the pipe OD.



Tighten screws evenly.

Saddle UA



Product Description:

Product Name	Saddle UA
Product Group	Lateral Connections

- for lateral connection of DN 150 pipes to twin-walled main pipes from DN 700 with a wall thickness of 30 – 122 mm
- pressure-tight up to 0.5 bar
- The main pipe does not have to be completely exposed, the pipe bed can remain undamaged.
- with spacer rings for exact adaptation to the wall thickness
- **configured on request**



The UA saddle is configured to the exact requirements on the construction site

Pipe Seal LSK



Product Description:

Product Name	Pipe Seal LSK
Product Group	Pipe Seals



- for the subsequent connection of smooth-walled pipes such as PVCu, Cast Iron, Ductile Iron or steel to main pipes and shafts made of concrete or reinforced concrete
- The pipe connection is an articulated connection and can therefore safely absorb any subsidence that may occur.
- For connections up to 200 mm, a deflection of 7° is guaranteed.
For larger diameters, 4° is guaranteed.

Product Code	Size DN (mm)	OD (mm)	Core Drill (mm)	Insertion Depth (mm)	Net Weight (kg)
LSKM-40-75	40	40	75	50	0.3
LSKM-50-75	50	50	75	50	0.3
LSKM-63-89	60	63	89	50	0.3
LSKM-75-101	70	75	101	50	0.3
LSKM-90-116	90	90	116	50	0.3
LSKM-110-138	100	110	138	50	0.4
LSKM-110-138_N	100	110	138	50	0.4
LSKL-110-138-105	100	110	138	105	0.8
LSKM-125-151	125	125	151	50	0.4
LSKM-160-186	150	160	186	50	0.5
LSKM-160-186_N	150	160	186	50	0.5
LSKL-160-186-105	150	160	186	105	0.8
LSKM-170-196	150	170	196	50	0.5
LSKM-200-226	200	200	226	50	0.6
LSKM-220-222-246	200	222	246	50	0.8
LSKL-225-251	200	225	251	50	0.8
LSKM-250-276	250	250	276	50	0.7
LSKM-315-341	300	315	341	50	0.8
LSKM-400-426	400	400	426	50	1.0
LSKM-500-526	500	500	526	50	1.3

Overall length: 50 mm / *L - version: 105 mm

Other sizes available on request.

For customised products (as per delivery note), the required core bore is 26 mm larger than the outer diameter of the connecting pipe.

Alternatively also available in **NBR quality (oil and petrol resistant)** or **SBR quality** for an additional charge.

Pipe Seal LM



Product Description:

Product Name Pipe Seal LM

Product Group Pipe Seals



- for the subsequent connection of pipes made of clay from all manufacturers to main pipes and shafts made of concrete or reinforced concrete
- made of high-quality EPDM according to DIN 681-1
- The thick profile of the LM60 makes it possible to compensate for the higher weight and tolerance variations of the clay pipes.
- Only the wall thickness of the main pipe is decisive for the correct length (50, 100 or 150 mm)!
- Ensure that the necessary core hole can be drilled. Tolerance of the core hole: ± 1 mm.
- In addition to these listed seals, further sizes are available as special designs.

① LM20: Overall length 20 mm for connecting to thin-walled pipes

Product Code	Pipe DN (mm)	Wall Thickness Main Pipe (mm)	Core Drill (mm)	Net Weight (kg)
TS040-044-20	40	10	44	0.1
TS050-060-20	50	10	60	0.1
TS063-070-20	63	10	70	0.1
TS075-083-20	75	10	83	0.1
TS080-89-8	80	8	89	0.1
TS110-117-4	110	4	117	0.1
TS110-117-10	110	10	117	0.1
TS110-121-20	110	10	121	0.1
TS160-164-7	160	7,5	164	0.1
TS160-170-20	160	10	170	0.1

② LM60: Overall length 60 mm for connecting vitrified clay pipes

Product Code	Clay DN (mm)	OD (mm)	Core Drill (mm)	Net Weight (kg)
LM131-146-60	100	131	146	0.3
LM186-200-60	150	186	200	0.4
LM242-257-60	200	242	257	0.5
LM296-311-60	250	296	311	1.0

Other sizes available on request.

③

LM50: Overall length 50 mm

Product Code	Pipe DN (mm)	Core Drill (mm)	Net Weight (kg)
LM40-52-50	KG 40	52	0.1
LM50-62-50	KG 50	62	0.1
LM75-86-50	KG 70	86	0.1
LM90-102-50	KG 90	102	0.1
LM110-122-50	KG 110	122	0.2
LM125-137-50	KG 125	137	0.2
LM160-172-50	KG 160	172	0.2
LM200-212-50	KG 200	212	0.4
LM250-262-50	KG 250	262	0.4
LM315-327-50	KG 315	327	0.5
LM110-122-50	Cast Iron 100	122	0.2
LM135-147-50	Cast Iron 125	147	0.3
LM160-172-50	Cast Iron 150	172	0.2
LM210-222-50	Cast Iron 200	222	0.7
LM274-286-50	Cast Iron 250	286	0.9
LM168-180-50	GRP 150	180	0.6
LM220-232-50	GRP 200	232	0.8
LM272-284-60	GRP 250	284	0.9
LM118-130-50	Ductile Iron 100	130	0.2
LM170-182-50	Ductile Iron 150	182	0.2
LM222-234-50	Ductile Iron 200	234	0.8
LM274-286-50	Ductile Iron 250	286	0.9

LM100: Overall length 100 mm

Product Code	Pipe DN (mm)	Core Drill (mm)	Net Weight (kg)
LM110-122-100	KG 110	122	0.3
LM125-137-100	KG 125	137	0.4
LM160-172-100	KG 160	172	0.5
LM200-212-100	KG 200	212	0.6
LM250-262-100	KG 250	262	0.6
LM315-327-100	KG 315	327	0.8
LM110-122-100	Cast Iron 100	122	0.3
LM135-147-100	Cast Iron 125	147	0.4
LM160-172-100	Cast Iron 150	172	0.5
LM210-222-100	Cast Iron 200	222	0.6
LM274-286-100	Cast Iron 250	286	0.7
LM168-180-100	GRP 150	180	0.5
LM220-232-100	GRP 200	232	0.6
LM272-284-100	GRP 250	284	0.7
LM118-130-100	Ductile Iron 100	130	0.4
LM170-182-100	Ductile Iron 150	182	0.5
LM222-234-100	Ductile Iron 200	234	0.6
LM274-286-100	Ductile Iron 250	286	0.7

LM150: Overall length 150 mm

Product Code	Pipe DN (mm)	Core Drill (mm)	Net Weight (kg)
LM110-122-150	KG 110	122	0.4
LM125-137-150	KG 125	137	0.4
LM160-172-150	KG 160	172	0.4
LM200-212-150	KG 200	212	0.5
LM250-262-150	KG 250	262	0.6
LM315-327-150	KG 315	327	0.8
LM110-122-150	Cast Iron 100	122	0.4
LM135-147-150	Cast Iron 125	147	0.4
LM160-172-150	Cast Iron 150	172	0.4
LM210-222-150	Cast Iron 200	222	0.6
LM274-286-150	Cast Iron 250	286	0.7
LM168-180-150	GRP 150	180	0.5
LM220-232-150	GRP 200	232	0.6
LM272-286-150	GRP 250	286	0.7
LM118-130-150	Ductile Iron 100	130	0.4
LM170-182-150	Ductile Iron 150	182	0.6
LM222-234-150	Ductile Iron 200	234	0.6
LM274-286-150	Ductile Iron 250	286	0.7

Other sizes available on request.

Pipe Seal LPS



Product Description:

Product Name	Pipe Seal LPS
Product Group	Pipe Seals



- for lateral connection of thin-walled, smooth-walled and profiled plastic pipes to main drainage systems
- can simply be installed in a core hole in the pipe, to which a lateral pipe is then connected
- made of high-quality EPDM DIN 681-1 as standard

Product Code	OD connecting pipe	DN main pipe	Core Drill (mm)	Net Weight (kg)
LPS110-250-400	110	250 / 315 / 400	127	0.4
LPS110-630-1000	110	360 / 800 / 1000	127	0.5
LPS160-300-500	160	300 / 400 / 500	177	0.7
LPS160-630-1000	160	630 / 800 / 1000	177	0.7
LPS160-1200	160	1200	177	0.7
LPS200-315	200	315	208	1.1
LPS200-400-500	200	400 / 500	208	1.1
LPS200-630-1000	200	630 / 800 / 1000	208	1.5
LPS200-1200	200	1200	208	1.0
LPS250-400-500	250	400 / 500	263	1.6
LPS250-630-1000	250	630 / 800 / 1000	263	1.5
LPS315-630-1000	315	630 / 800 / 1000	320	2.1
LPS400-1000-1200	400	1000 / 1200	412	3.5
HS-K95-177	Hole saw for plastic pipes DN 150 (Core drilling 177 mm)			

Also available in **NBR quality (oil and petrol resistant)** or **SBR quality** at an extra charge.

Installation:



Drill the core hole. Deburr the drill hole and wipe the inner surface clean.



Fold the seal and insert it into the pipe. Ensure that it is pushed fully into the pipe.



Measure the seal depth and mark it on the connecting pipe.



Apply lubricant to the connecting pipe and fully press it into the seal.

Pipe Seal QS



Product Description:

Product Name Pipe Seal QS

Product Group Pipe Seals



- for connecting plastic pipes to corrugated and / or ribbed main pipes or shafts
- cost-effective alternative to the connections offered by the different pipe manufacturers
- available in overall lengths of 60 mm and 90 mm
- connection of pipe types or sizes other than DN 100 plastic: with optionally available PA adapters
- made of SBR and V2A (1.4301) as standard
- also available in NBR quality (oil and petrol resistant) and/or V4A (1.4404)

Product Code	Pipe OD (mm)	Core Drill (mm)	Overall Length (mm)	max. Wall Thickness (mm)	Net Weight (kg)
QS110-127-60	110	127	60	30	0.4
QS110-127-90	110	127	90	65	0.4
QS160-177-60	160	177	60	30	0.6
QS160-177-90	160	177	90	65	0.7
QS200-127-75	200	217	75	50	0.7
LPA110*	PA-adapter for connecting DN 100 PVCu				1.0
LPA130*	PA-adapter for connecting DN 100 vitrified clay				1.1
LPA180*	PA-adapter for connecting DN 150 vitrified clay, twin-walled pipes				1.2
HS-K95-177	Hole saw for plastic pipes with chuck				-
STDN150	KG-socket (orange)				0.5
T-QS	Mouting Aid – Assembly tool				2.5

*see page 52 for more info.

Installation:



Drill a hole in the specified size.
Deburr the hole.



Position the QS into the hole until the collar reaches the inside of the pipe.



Coat the inside of the seal with lubricant (not under the clamp band).



Insert the pipe into the QS.



Use the assembly tool to position the seal correctly.



Before removing the tool, tighten the clamp band with 8 Nm

Puddle Flange PFT



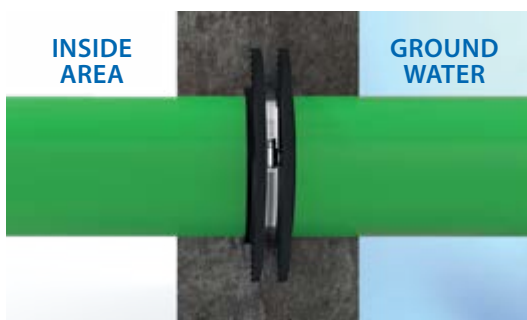
Product Description:

Product Name	Puddle Flange PFT
Product Group	Pipe Lead-Through



- Lead-through of pipes made of steel, cast iron, copper, plastic, fibre cement, concrete and vitrified clay pipes
- Pipe inlets through walls, ceilings, floors, manholes, swimming pools and groundwater tanks
- prevents water from penetrating if there is a gap between the pipe and the wall due to different recesses
- In the case of flood, groundwater or elevated groundwater levels near watercourses / rivers, the puddle flange protects the structure against penetrating moisture.
- In of swimming pools and floor troughs, the wall collar protects against leaking water or the subsoil in front of leaking liquids.
- The independent material testing institute MFPA Leipzig GmbH confirmed – depending on the diameter – a sealing up to 8 bar.
- radon proof
- made of EPDM and V2A (1.4301) as standard

WALL DUCT



FLOOR DRAIN



Product Code	Size Range (mm)	Net Weight (kg)	Torque (Nm)
PFT025	15 – 25	0.1	6
PFT032	26 – 33	0.1	6
PFT040	34 – 42	0.2	6
PFT050	43 – 54	0.2	6
PFT063	55 – 68	0.2	6
PFT075	69 – 83	0.2	6
PFT090	84 – 101	0.3	6
PFT110	102 – 118	0.3	6
PFT125	119 – 133	0.4	6
PFT140	134 – 148	0.4	6
PFT160	149 – 168	0.5	6
PFT175	169 – 190	0.5	6
PFT200	191 – 215	0.6	6
PFT225	216 – 240	0.6	6
PFT250	241 – 265	0.7	6
PFT275	266 – 290	0.7	6
PFT315	291 – 315	0.8	13
PFT325	316 – 340	0.9	13
PFT350	341 – 365	0.9	13
PFT375	366 – 390	1.0	13
PFT400	391 – 415	1.1	13
PFT425	416 – 440	1.1	13
PFT450	441 – 465	1.2	13
PFT475	466 – 490	1.3	13
PFT500	491 – 515	1.3	13
PFT525	516 – 540	1.4	13
PFT550	541 – 565	1.4	13
PFT575	566 – 590	1.5	13
PFT600	591 – 615	1.6	13
PFT630	616 – 640	1.6	13

Also available in **V4A (1.4404)** – plus 20 % of the list price.

Additional sizes on request.

Ring Seal MRS 2 & 5 bar



Product Description:

Product Name Ring Seal MRS 2 & 5 bar

Product Group Pipe Lead-Through

- sealing of pipes and cables against pressing water and gases or against aggressive media
- sealing of pipelines in drinking water systems (as KTW version)
- use in sound insulation according to DIN 4109
- Subsequent installation possible: All inserts are separable.
- Seal Kit **MRS-2**: suitable for pressurized water up to **20 mWS** and air / gas pressure **2 bar**
- Seal Kit **MRS-5**: suitable for pressurized water up to **50 mWS** and air / gas pressure **5 bar**
- pressure tight according to DIN 3230, Part 5
- also available in NBR quality (oil and petrol resistant) and/or in V4A (1.4404)
- radon proof

Product Code	Annular Gap (mm)	OD Media Pipe (mm)	Version for 20 mWs (2 bar)		Version for 50 mWs (5 bar)	
			Installation Depth (mm)	Net Weight (kg / module)	Installation Depth (mm)	Net Weight (kg / module)
MRS200	12.5 – 15.9	21.3 – 323.9	40	0.1	70	0.4
MRS250	15.5 – 19.6	13.0 – 358.0	40	0.1	70	0.4
MRS275	15.5 – 19.6	4.0 – 67.1	40	0.1	70	0.4
MRS300	17.5 – 22.4	44.5 – 406.4	55	0.1	90	0.9
MRS325	23.0 – 29.8	88.9 – 711.0	80	0.2	110	0.3
MRS350	23.5 – 30.6	14.0 – 406.4	60	0.1	110	0.2
MRS375	31.0 – 36.5	26.0 – 323.9	70	0.2	110	0.2
MRS400	36.0 – 43.5	139.7 – 1220.0	90	0.4	140	0.5
MRS415	36.0 – 43.5	44.5 – 323.0	90	0.3	140	0.4
MRS425	28.0 – 35.5	134.0 – 1220.0	90	0.3	140	0.4
MRS475	40.0 – 47.5	33.7 – 1220.0	90	0.3	140	0.4
MRS500	58.0 – 68.5	82.5 – 1220.0	110	0.7	150	1.0
MRS525	53.0 – 61.3	133.0 – 1220.0	110	0.6	150	0.9
MRS575	47.0 – 56.8	90.0 – 1220.0	90	0.5	140	0.7
MRS600	80.0 – 96.5	177.8 – 3000.0	140	1.9	190	2.8
MRS650	71.0 – 81.5	200.0 – 1220.0	110	1.0	160	1.4

For the exact calculation of your required ring seal, please contact our technical sales department: +49 (0)5651 2296 400.

Compact Seal CS 3 & 5 bar



Product Description:

Product Name Compact Seal CS, 3 & 5 bar

Product Group Pipe Lead-Through

- applicable for civil engineering, gas and water distribution.
- sealing of pipes and core holes of all diameters
- can be installed in a feed pipe as well as directly in a coring drill hole
- Ring-Seal single-layered, 30 mm (pressure-tight up to 3 bar)
- all steel parts made of stainless steel V2A / V4A
- EPDM: Against pressing water and gas
- NBR: Seals against aggressive media (oil-resistant) – this material is a regenerate quality; there may be major deviations in the technical data due to the mixture.
- for use in drinking water systems (as KTW version)
- use in sound insulation according to DIN 4190
- radon proof

Variants:



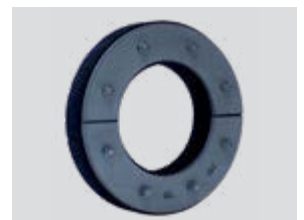
Compact Seal
closed



Compact Seal
multiple-penetration type



Compact Seal
multiple-penetration type
eccentric



Compact Seal divided

Compact Seals (3 bar) CS, 30m WS (3 bar)

Product Code	Core Drill (mm)	max. Media Pipe OD** (mm)	Net Weight (kg)
CS60-3	60	22	0.4
CS70-3	70	35	0.5
CS80-3	80	45	0.6
CS100-3	100	66	1.0
CS125-3	125	87	1.5
CS150-3	150	112	2.1
CS200-3	200	162	2.8
CS250-3	250	212	4.5
CS300-3	300	260	6.0
CS350-3	350	300	7.0
CS400-3	400	350	7.5
CS450-3	450	400	10.0
CS500-3	500	450	14.0
Surcharge for KTW (drinking water)			25 %
Surcharge for NBR (Nitrile)			20 %
Surcharge for eccentricity			15 %

Compact Seals (5 bar) CS, 50 mWS (5 bar)

Product Code	Core Drill (mm)	max. Media Pipe OD** (mm)	Net Weight (kg)
CS60-5	60	22	0.5
CS70-5	70	35	0.7
CS80-5	80	45	0.9
CS100-5	100	66	1.3
CS125-5	125	87	2.0
CS150-5	150	112	2.8
CS200-5	200	162	3.7
CS250-5	250	212	4.8
CS300-5	300	260	8.3
CS350-5	350	300	10.0
CS400-5	400	350	12.0
CS450-5	450	400	14.0
CS500-5	500	450	22.0
Surcharge for KTW (drinking water)			25 %
Surcharge for NBR (Nitrile)			20 %
Surcharge for eccentricity			15 %

Other sizes are available on request.

** Please specify the exact media diameter for your order.

Compact Seal CSU



Product Description:

Product Name	Compact Seal CSU
Product Group	Pipe Lead-Through

- compact seal with layered insert
- can be used as a wall duct
- By simply cutting out the pre-punched rubber rings, the press ring seal can be adapted on site to the present media pipe outer diameter.
- all steel pieces made of stainless steel V2A / V4A
- Sealing made of high-quality EPDM, single-layered 30 mm / 40 mm.
- uses in sound insulation according to DIN 4190
- pressure tight up to 1.5 bar
- Press ring sealing inserts do not fulfil a support bearing function. Slight axial movements of the media pipes are permissible.
- radon proof

Installation:



Slide the sealing insert over the service pipe and into the annular space from the building side



Tighten all screws clockwise in several stages until the sealing insert fills the annular space



Tighten the bolts evenly to the required torque using the torque spanner

Product Code	Incisions for occupancy (mm)	Net Weight (kg)	Width Rubber single-layered (mm)
Compact Seal CSU – EPDM insert with 1 hole for cable / pipe			
CSU-100	20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 64	1.0	40
CSUS-100	20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 64	1.0	40
CSU-125	63 / 76 / 90	1.0	30
CSU-150	63 / 76 / 90 / 110	1.3	30
CSU-200	110 / 125 / 140 / 160	1.9	30
Compact Seal CSM – Multiple feedthrough – EPDM inserts 5 – 32 mm with flare, elastomer 30 mm			
CSM100-3H	3× 5 / 10 / 15 / 20 / 25 / 32	1.0	30
CSMS100-3H	3× 5 / 10 / 15 / 20 / 25 / 32	1.0	30
CSM100-4H	4× 5 / 10 / 15 / 20 / 25 / 32	1.0	30
CSMS100-4H	4× 5 / 10 / 15 / 20 / 25 / 32	1.0	30
CSMS125-5H	5× 5 / 10 / 15 / 20 / 25 / 32	1.0	30
CSMS150-4H	4× 5 / 10 / 15 / 20 / 25 / 32	1.3	30
CSMS150-8H	8× 5 / 10 / 15 / 20 / 25 / 32	1.3	30
CSMS200-12H	12× 5 / 10 / 15 / 20 / 25 / 32	1.9	30
Compact Seal CSM – Multiple feedthrough – EPDM inserts 20 – 64 mm, elastomer 40 mm			
CSM250-2H	2× 21 / 27 / 34 / 43 / 50 / 63	6.0	40
CSMS250-2H	2× 21 / 27 / 34 / 43 / 50 / 63	6.0	40
CSM250-3H	3× 21 / 27 / 34 / 43 / 50 / 63	6.0	40
CSMS250-3H	3× 21 / 27 / 34 / 43 / 50 / 63	6.0	40
CSM300-4H	4× 21 / 27 / 34 / 43 / 50 / 63	8.0	40
CSMS300-4H	4× 21 / 27 / 34 / 43 / 50 / 63	8.0	40

Compact Seal Hybrid CSH



Product Description:

Product Name Compact Seal Hybrid CSH

Product Group Pipe Lead-Through

- particularly suitable for thin-walled and corrugated pipes: The soft sealing insert adapts perfectly to the surface contours of the media pipe
- A cold flow leading to cross-sectional tapering (especially with PE pipes) is virtually eliminated
- No special tools required – fast, safe and easy installation
- No time-delayed retightening
- press flanges and connecting elements made of stainless steel V2A
- Seal insert in 2-component construction made of EDPM and duroplastic elastomer with excellent chemical, mechanical and thermal properties.
- radon proof

Compact Seals HYBRID, 3 bar

Product Code	Core Drill (mm)	max. OD Media Pipe (mm)	Net Weight (kg)
CSH80-3	80	45	0.6
CSH100-3	100	66	1.0
CSH125-3	125	87	1.5
CSH150-3	150	112	2.1
CSH200-3	200	162	2.8
CSH250-3	250	212	4.5
CSH300-3	300	260	6.0
CSH350-3	350	300	7.0
CSH400-3	400	350	7.5
Surcharge for eccentricity		15 %	
Surcharge for split version		15 %	

Compact Seals HYBRID, 5 bar

Product Code	Core Drill (mm)	max. OD Media Pipe (mm)	Net Weight (kg)
CSH80-5	80	45	0.9
CSH100-5	100	66	1.3
CSH125-5	125	87	2.0
CSH150-5	150	112	2.8
CSH200-5	200	162	3.7
CSH250-5	250	212	4.8
CSH300-5	300	260	8.3
CSH350-5	350	300	10.0
CSH400-5	400	350	12.0
Surcharge for eccentricity		15 %	
Surcharge for split version		15 %	

Compact Seal Senso CS_PU



Product Description:

Product Name Compact Seal Senso CS_PU

Product Group Pipe Lead-Through

- particularly suitable for thin-walled PVCu pipes and corrugated / flexible pipes
- 2-component construction in a fixed connection tight against pressing water (pressure-tight up to 1.5 bar)
- excellent chemical, mechanical and thermal properties
- press flanges and fasteners made of stainless steel
- carrier / core component made of solid EPDM
- sheath component made of duroplastic elastomer with very soft hardness setting
- [also available with KTW approval](#)
- radon proof

Product Code	Core Drill (mm)	Media Pipe (mm)	Net Weight (kg)
CS100-40_PU	100	40	1.0
CS100-50_PU	100	50	1.0
CS100-63_PU	100	63	1.0
CS125-75_PU	125	75	1.5
CS125-90_PU	125	90	1.5
CS150-110_PU	150	110	2.1
CS200-125_PU	200	125	3.0
CS200-140_PU	200	140	3.0
CS200-160_PU	200	160	3.0
CS250-175_PU	250	175	4.5
CS300-200_PU	300	200	6.0

Compact Seal Cavo-In CSSCI



Product Description:

Product Name Compact Seal Cavo-In CSSCI

Product Group Pipe Lead-Through

- Segment ring sealing insert for corrugated plastic pipes
- Sealing insert in 2-component design: EPDM and thermoset elastomer - excellent chemical, mechanical and thermal properties
- Elastomer EPDM inner part of medium hardness, segment ring insert extremely soft thermoset elastomer
- Press flanges and connecting element made of V2A stainless steel
- Available in split design
- Low screw tightening forces
- Cross-section stability for PE pipes
- No time-delayed retightening, no special tools required
- Quick, safe and easy installation

Product Code	KWR/KSR Pipe-OD (mm)	ID (mm)	Segment set of cuts	Cable Ø (mm)
CSSCI063-618	63	53	10 / 14 / 18	6 – 18
CSSCI075-624	75	64	10 / 14 / 18 / 24	6 – 24
CSSCI110-636	110	93	10 / 14 / 18 / 24 / 30 / 36 / 42 / 48	6 – 36
CSSCI110-648	110	93	10 / 14 / 18	4× 6 – 48
CSSCI160-642	160	138	10 / 14 / 18 / 24 / 30 / 36 / 42	3× 6 – 42
CSSCI160-636	160	138	10 / 14 / 18 / 24 / 30 / 36	4× 6 – 36
CSSCI160-630	160	138	10 / 14 / 18 / 24 / 30	6× 6 – 30

P-Ring PR



Product Description:

Product Name	P-Ring PR
Product Group	Sealing Rings



- sealing elements for the tip end of clay pipes and moldings
 - After the cutting of a pipe, the factory installed pipe-end encapsulation made of polyurethane is lost. The Fernco fitting rings replace this sealing element.
 - The rings supplied by us have been developed and are suitable for:
 - all vitrified clay pipes from "Deutsche Steinzeug GmbH" with connection system C, push-fit socket K
 - clay pipes (system C) from other manufacturers whose pipes fall within the same functional range
- If this is not the case, the sealing cannot be guaranteed!

Product Code	for connecting (DN)	Functional area (mm)	Net Weight (kg)
PRN200	200 Normal load	238 – 244	0.4
PRH200	200 High load	249 – 256	0.6
PRN250	250 Normal load	295 – 302	0.6
PRH250	250 High load	312 – 319	0.7
PRN300	300 Normal load	350 – 357	0.7
PRH300	300 High load	373 – 381	0.9
PRN400	400 Normal load	481 – 490	1.1
PRH400	400 High load	484 – 493	1.1
PRN500	500 Normal load	577 – 587	1.4
PRH500	500 High load	600 – 610	1.8
PRN600	600 Normal load	679 – 693	1.8
PRH600	600 High load	713 – 728	2.5

U-Ring UR



Product Description:

Product Name	U-Ring UR
Product Group	Sealing Rings



- for transitions of spigot ends from different pipe material such as PVCu, Cast Iron, Ductile Iron that are to be connected to vitrified clay sockets with the connection system F, lip seal L
- made of EPDM according to 681-1

Product Code	Size DN (mm)	OD (mm)	Pipe Material	Net Weight (kg)
UR100-110	100	110	Cast Iron/PVCu	0.3
UR125-125	125	125	PVCu	0.4
UR125-135	125	135	Cast Iron	0.4
UR150-160	150	160	Cast Iron/PVCu	0.6
UR150-170	150	170	Ductile Iron	0.4
UR200-200	200	200	PVCu	1.1
UR200-210	200	200	Cast Iron	1.1

B-Ring BR, radius fitting



Product Description:

Product Name	B-Ring BR
Product Group	Sealing Rings



- Sealing ring in conjunction with a clay socket to form a saddle on clay main sewers.
- The Fernco DN 150 drilling ring is the only one on the German market that has a patented, radius-fitting sealing lip, which is a significant advantage in sealing. Therefore, it can already be connected to Clay main pipes from DN 300 (BR 200 – from DN 400).

Product Code	Clay Pipe DN	Core Drill (mm)	Net Weight (kg)
BR150	150 (with radius fitting sealing lip)	200	0.2
BR200	200	257	0.4

Transition Ring Type RR



Product Description:

Product Name Transition Ring RR

Product Group Sealing Rings



- for the connection of sewage pipes from different sewage pipe systems to concrete or vitrified clay pipes
- for sockets without a sealing
- consists of an elastomer with a closed-cell structure
- made of EPDM according to 681-1 as standard

Product Code	Size DN (mm)	Thickness (mm)	Net Weight (kg)
RR100-16	100	16	0.1
RR100-18	100	18	0.1
RR100-20	100	20	0.2
RR125-20	125	20	0.2
RR125-22	125	22	0.2
RR125-24	125	24	0.2
RR150-20	150	20	0.2
RR150-22	150	22	0.2
RR150-24	150	24	0.3
RR200-24	200	24	0.3
RR200-26	200	26	0.4

Other sizes and thicknesses available on request.

Rolling Ring Type RR



Product Description:

Product Name	Rolling Ring RR
Product Group	Sealing Rings

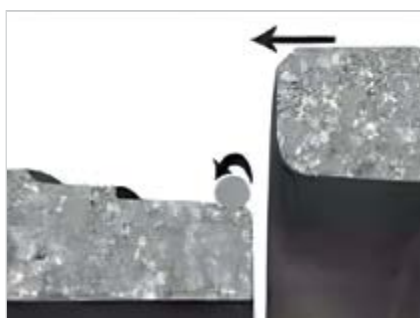


- compression seal for use in pipe sockets with missing seal
- is used as a pipe joint seal for concrete socket pipes in the sewage sector
- The calculation always depends on the annular space and the resulting compression.
- made of EPDM according to EN 681-1 as standard
- Mind the pipe manufacturer's installation guidelines and the standards DIN EN 1610 and worksheet DWA-A 139

Product Code	Size DN (mm)	in sleeves with ID (mm)	Thickness (mm)	Application	Net Weight (kg)
RR100-28	100	156 – 162	28	FZ	0.3
RR100-32	100	156 – 162	32	KG	0.3
RR125-34	125	184 – 190	34	Cast Iron	0.6
RR125-38	125	184 – 190	38	KG	0.6
RR125-44	125	184 – 190	44	KG	0.6
RR150-38	150	214 – 222	38	PVCu / Cast Iron	0.6
RR200-38	200	274 – 282	38	FZ	0.7

Other sizes and thicknesses available on request.

Montage:



1. Clean sockets, spigot ends and sealing rings of coarse dirt
2. Pull the sealing ring onto the start of the socket of the pipe that has already been laid
3. Push the pipe into the centre of the socket

Pipe Lubricant PL



Product Description:

Product Name	Pipe Lubricant PL
Product Group	Accessories

- lubricant for pipe connections
- according to Safety Data Sheet 91/155/EWG
- completely biodegradable
- available for plastic, clay and concrete pipes
- different packaging units available

Product Code	Application	Quantity	Packaging Unit (pce.)	Net Weight (kg / pce.)
PL250NX	PVC	250 g Tube	50	0.3
PL500NX	PVC	500 g Tube	24	0.6
PL1NX-T	PVC	1 kg Tube	12	1.1
PL1NX	PVC	1 kg Bucket	18	1.1
PL3NX	PVC	3 kg Bucket	1	3.2
PL5NX	PVC	5 kg Bucket	1	5.3
PL1SB	Clay	1 kg Bucket	18	1.1
PL3SB	Clay	3 kg Bucket	1	3.2
PL5SB	Clay	5 kg Bucket	1	5.3
PL5DSO	Concrete	5 kg Bucket	1	5.3

Please note: Small quantities may incur higher shipping costs, and the freight-free limit is increased to to 1.250.00 € / unloading point.

Drain Test Plug DTP



Product Description:

Product Name Drain Test Plug DTP

Product Group Accessories

- ideal for pressure tests of sewer pipes through test connection with hollow screw
- simple and quick installation by inserting it into the pipe end (spigot end or socket)
- can also be used as a temporary or permanent pipe closure
- Material: aluminium plates, EPDM rubber seal
- also available in NBR (resistant to oil and petrol)

Product Code	Size DN (mm)	Test thread (inch)	Ø Minimum (mm)	Ø Maximum (mm)	Pressure (bar)	Net Weight (kg)
DTP040	40	1 ½	38	50	2.0	0.2
DTP050	50	2	49	62	2.0	0.2
DTP065	65	2 ½	62	77	2.0	0.3
DTP075	75	3	73	89	1.3	0.3
DTP085	85	3 ½	84	103	1.0	0.3
DTP100	100	½	94	110	0.6	0.4
DTP115	125 (PVCu)	½	108	120	0.6	0.5
DTP125	125	½	121	138	0.6	0.8
DTP150	150	½	146	163	0.6	0.7
DTP180	200 (PVCu)	1	165	190	0.4	1.5
DTP200	200	1	191	211	0.4	1.6
DTP225	250 (PVCu)	1	216	235	0.4	1.9
DTP250	250	1	244	260	0.4	2.4
DTP300	300	1	296	314	0.4	3.4
DTP350	350	1	340	375	0.3	5.5
DTP400	400	1	390	425	0.3	6.5
DTP500	500	2	495	525	0.3	14.0
DTP600	600	2	590	630	0.2	16.5

Other sizes available on request.

End Cap EC



Product Description:

Product Name End Cap EC

Product Group Accessories

- for temporary or permanent closure of pipe tip ends
- suitable for all types of pipes as long as the outer diameter matches the OD range
- All steel parts made of V2A (1.4301) as standard

Product Code*	Size DN (mm)	OD-Range (mm)	Pressure (bar)	Net Weight (kg)
EC036_E4-UL	-	28 – 36	0.6	0.1
EC045_E4-UL	40	37 – 45	0.6	0.1
PQC048-UL	40	43 – 50	0.6	0.1
EC056_E4-UL	50	48 – 56	0.6	0.1
PQC060	50	54 – 63	0.6	0.1
EC068_E4-UL	-	58 – 68	0.6	0.1
PQC070-UL	50	60 – 70	0.6	0.2
EC076_E4-UL	70	67 – 76	0.6	0.2
PQC089-UL	-	80 – 90	0.6	0.2
EC092_E4-UL	-	82 – 92	0.6	0.2
PQC100-UL	75	80 – 98	0.6	0.2
PQC112-UL	100	98 – 112	0.6	0.3
PQC125-UL	100	110 – 125	0.6	0.3
EC135_E4-UL	100	125 – 135	0.6	0.3
PQC142-UL	-	130 – 145	0.6	0.5
PQC162-UL	150	150 – 162	0.6	0.6
EC173_E4-UL	150	163 – 173	0.6	0.4
PQC181-UL	150	160 – 180	0.6	0.5
EC190_E4-UL	150	180 – 190	0.6	0.6
PQC230-UL	200	215 – 230	0.6	0.7
PQC250-UL	225	235 – 250	0.6	0.8
PQC274-UL	250	260 – 275	0.6	0.8
EC328_E4-UL	300	315 – 330	0.6	1.0
PQC358-UL	350	345 – 360	0.6	1.0

Also available in **V4A (1.4404)** - plus 20 % of the list price.

* Explanation Product Code: **PQ** = PVC and **E** = EPDM

Access Point AP



Product Description:

Product Name	Access Point AP
Product Group	Accessories

- for pressureless waste water and rainwater pipes of 70, 100 or 150 mm outer diameter and a wall thickness of up to 7 mm
- suitable as a subsequent inspection opening for clogging / deposits in the pipe as well as for a suspended pipe to replace a cleaning opening
- quick and easy installation
- reusable, can be installed and removed multiple times
- pressure tight up to 1.0 bar
- supplied in a set of 10 pieces including accessories
- also available separately or without tools on request

Product Code	Content	Net Weight (kg)
AP54-KIT	10x Access Point, 1x Deburring Tool, 1x 6 mm Allen Key, 1x 54 mm Diamond-tipped core drill	2.5
AP54-10	10x Access Point / without tools	1.6
AP54-20	20x Access Point / without tools	2.9
AP54-500	500x Access Point / without tools	65.0

We recommend:

HSK-54	Diamond drill bit 54 mm (Holder, Deburring Tool, T-Handle, T-Key) – Complete Set
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Installation:



drill a core hole



deburr drill hole

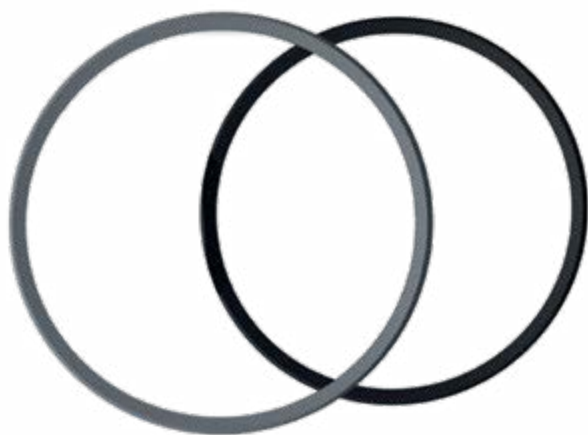


insert Access Point



tighten the fastener

Noise Reduction Ring/-Paste AKR / AKRP



Product Description:

Product Name	Noise Reduction Ring AKR / Noise Reduction Paste AKRP
Product Group	Accessories

- reliably prevent the rattling of the manhole covers as a damping insert in sewer chute frames and protect the cover supports
- Material: Thermoplast
- these rings do not fulfil a sealing function!
- According to DIN 19584 and DIN 4290

Product Code	Description	Outside (mm)	Inside (mm)	Net Weight (kg)
AKR19584	Manhole Cover, Class D, produced since 1980	682	600	0.2
AKR4290	Manhole Cover, Class B, produced until 1980	665	600	0.2
AKRP-430	Noise Reduction Paste, 430 g bag			0.5

The Noise Reduction Paste consists of an environmentally friendly 2-component liquid plastic. It is an individually adaptable, self-curing paste for all sizes of rattling covers.

Product benefits:

- reliably prevents rattling noises
- fits the shape exactly
- installed quickly

Delivery form:

The Noise Reduction Paste AKRP-430 with approx. 430 g for round manhole covers up to approx. Ø 70 cm or approx. 200 cm for rectangular covers.

Installation instructions:

1. Remove the rattling lid from the frame.
2. Remove coarse dirt from the contact surface of the frame and the cover.
3. Apply the release agent from chamber 1 with a cloth thinly on the bottom and sides of the lid.
4. Open and remove the clip on the bag between chamber 2 and 3 and remove it.
5. Mix the two plastic components thoroughly by kneading in the bag.
6. Cut off one corner of the bag with a pair of scissors (cut length: approx. 1 cm). Pour the paste from the bag into the box frame or the lid support in a bead-like manner to a thickness of approx. 7 mm.
7. Immediately place the lid in the frame before the paste hardens.

Clamp Bands for individual applications



Product Description:

Product Name	Clamp Bands
Product Group	Accessories

- individual dimensions available for diameters up to several metres
- several clamping units on request, resulting in a high adjustment range
- durable and reusable due to proven spot-welded connections
- from 300 mm stud connections M 8/SW 13
- smaller dimensions with worm thread clamping unit

Fernco clamp bands are available in two steel versions:

Standard version:

Austenitic, stainless steel DIN 1.4301 AISI 304 V2A

Special version:

Austenitic, stainless steel DIN 1.4404 AISI 316 V4A

Clamp bands available in the following widths and materials:

Width (mm)	Material thickness (mm)	Material
20	0.9	V2A (1.4301)
20	0.9	V4A (1.4404)
100	0.8	V2A (1.4301)
100	0.8	V4A (1.4404)
200	0.8	V2A (1.4301)
200	0.8	V4A (1.4404)
245	0.8	V2A (1.4301)

Drain Dye DTD



Product Description:

Product Name	Drain Dye DTD
Product Group	Flood Protection

- drain tracer product for finding leaks, drain damage, contamination and water pathways
- odourless product in powder form that is non-toxic to humans and animals
- adds a strong colour to water – use just a teaspoon of Drain Dye with 10 litres of water
- 200 g colour concentrate powder for 500 to 1000 litres
- Whether a sewerage pipe or grey water system, the Drain Dye is a quick and simple solution.
- The green Drain Dye DTD200_GREEN is **fluorescent**.

Product Code	Content	Packaging Unit (pcs.)	Net Weight (kg / pce.)
DTD200_BLUE	200 g Drain Dye colour batch-powder, blue	60	0.3
DTD200_GREEN	200 g Drain Dye colour batch-powder, green	60	0.3
DTD200_ORANGE	200 g Drain Dye colour batch-powder, orange	60	0.3
DTD200_PURPLE	200 g Drain Dye colour batch-powder, purple	60	0.3
DTD200_RED	200 g Drain Dye colour batch-powder, red	60	0.3
DTD200_YELLOW	200 g Drain Dye colour batch-powder, yellow	60	0.3

Accessories – Installation aids for easy assembly



Product Description:

Product Name	Accessories – Installation aids for easy assembly
Product Group	Accessories

Product Code	Content
ESH150B	Impact Aid for FA-Element DN 150
ESH200B	Impact Aid for FA-Element DN 200
TA16	Adapter ¼ × ⅜ inch
TDM14	Torque Wrench 6-30 Nm
T-N15	Hexagon head ¼ inch × 8 mm
T-N16	long Hexagon head ¼ inch × 8 mm
T-QS	Mounting tool for QS
T-RS13	Pipe socket spanner 12 × 13 mm
T-RS17	Pipe socket spanner ⅜ inch × 13 mm
T-TAK	T-key 6 mm hexagon socket
T-TC30-200	Circle Cutter 30-200 mm for PVCu
HSK-54	Diamond drill bit 54 mm (Holder, Deburring Tool, T-Handle, T-Key) – Complete Set
HS-K95-127	Core Bit for PVCu pipes (Length 95 mm / 127 mm Borehole), incl. holder
HS-K95-177	Core Bit for PVCu pipes (Length 95 mm / 177 mm Borehole), incl. holder
HS-K95-208	Core Bit for PVCu pipes (Length 95 mm / 208 mm Borehole), incl. holder
HS-K95-217	Core Bit for PVCu pipes (Length 95 mm / 217 mm Borehole), incl. holder
HS-K95-263	Core Bit for PVCu pipes (Length 95 mm / 263 mm Borehole), incl. holder
HS-K95-320	Core Bit for PVCu pipes (Length 95 mm / 320 mm Borehole), incl. holder
HS-K95-412	Core Bit for PVCu pipes (Length 95 mm / 412 mm Borehole), incl. holder
HS-AUF150	Attachment/holder for hole saw 6,3 × 150 mm
All of the following hole saws require the HS-AUF150 holder for use	
HS-K32-52	Core Bit for PVCu pipes (Length 32 mm / 52 mm Borehole)
HS-K32-86	Core Bit for PVCu pipes (Length 32 mm / 86 mm Borehole)
HS-K90-122	Core Bit for PVCu pipes (Length 90 mm / 122 mm Borehole)
HS-K90-127	Core Bit for PVCu pipes (Length 90 mm / 127 mm Borehole) for QS
HS-K90-138	Core Bit for PVCu pipes (Length 90 mm / 138 mm Borehole)
HS-K90-172	Core Bit for PVCu pipes (Length 90 mm / 172 mm Borehole)
HS-K90-179	Core Bit for PVCu pipes (Length 90 mm / 179 mm Borehole) for PA
HS-K90-217	Core Bit for PVCu pipes (Length 100 mm / 217 mm Borehole) for QS
HS-K90-222	Core Bit for PVCu pipes (Length 90 mm / 222 mm Borehole) for e.g. LM 210

Additional hole saw sizes available on request.

Combination Adaptor FCA

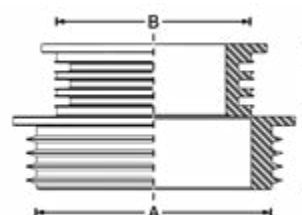


Product Description:

Product Name	Combination Adaptor FCA
Product Group	Plumbing



- most common adaptors for connecting waste water pipes
- standard equipment in the sanitary sector
- **available individually or as a set**
- enable the connection between different outer and inner diameters or different surfaces and materials
- suitable for all types of pipes in the wastewater sector, vertical or horizontal
- simple installation, no tools required
- are either crimped or torn off before installation
- mind the direction of flow



	Product Code	for connecting (DN)	Reduction range (mm)	Masure – A (mm)	Measure – B (mm)	Measure – L (mm)	Net Weight (kg)
①	FCA050-040	50	40 / 32	50	40 / 32	62	0.1
②	FCA064-050	64 / 58	50 / 40	64 / 58	50 / 40	95	0.1
③	FCA075-050	75 / 70	50 / 40	75 / 70	50 / 40	95	0.1
④	FCA096-075	96 / 83 / 75	83 / 75 / 50	96 / 83	75 / 50	98	0.2
⑤	FCA105-75	100 – 105 / 75	75 / 50	100 – 105	75 / 50	64	0.2
⑥	FCA105-90	100 – 105 / 90	90 / 75	100 – 105	90 / 75	65	0.1
⑦	FCA130-110	123 – 130 / 110	110 / 75	123 – 130	110 / 75	68	0.2
⑧	FCA150-110	150 / 125 / 110	135 – 125 / 116 / 110	150 / 125	110	115	0.4
	FCA-SET6	Set consisting of 1 – 4, 6 and 7					0.8
	FCA-SET7	Set consisting of 1 – 4 and 6 – 8					1.2
	FCA-SET8	Set consisting of 1 – 8					1.4

Air Admittance Valve AAV



Product Description:

Product Name	Air Admittance Valve AAV
Product Group	Plumbing

- Installation in drainage systems to compensate for negative pressure that can occur during drainage
- maintenance-free Air Admittance Valve made of impact-resistant ABS plastic for installation inside buildings
- free air intake without screens or grilles through a permanently elastic membrane. Meets requirements of DIN EN 12380:2002
- removes the need to penetrate the outer roof shell
- no thermal bridge, therefore no dangerous condensation on the pipe
- in case of fire no stack-effect, this delays the spread of fire
- no unnecessary insect screens or other maintenance-intensive barriers

	Product Code	Size DN	Net Weight (kg)
Air Admittance Valves			
	AAV50	32 / 40 / 50 universal	0.3
	AAV110	110 with adhesive sleeve	0.3
	AAV32-63	32 / 40 / 50 / 63	0.1
	AAV70-110	70 / 75 / 90 / 110	0.4
AirBalance Valves			
	AAVAB-50	50	0.1
	AAVAB-75	75	0.1

Venting Device UV



Product Description:

Product Name	Venting Device UV
Product Group	Plumbing

- Patented one-piece plastic construction
- ventilation caps made of durable PP material with a stabiliser that guarantees resistance to UV radiation
- aesthetic appearance
- barrier against uncontrolled blockage of the air supply systems (e.g. by leaves, insects or birds)
- Simple installation
- Suitable for any ventilated plumbing system in the house
- Colour: grey

Product Code	Installation	DN (mm)	Height – A (mm)	Net Weight (kg)
UVM-50	Pipe socket	50	105	0.1
UVS-50	Spigot end			0.1
UVM-75	Pipe socket	75	110	0.1
UVM-110	Pipe socket	110	123	0.2
UVS-110	Spigot end			0.2
UVM-160	Pipe socket	160	130	0.3
UVS-160	Spigot end			0.4



Socket



Spigot end



Plumbing Couplings PE / PT



Product Description:

Product Name Plumbing Elbow PE, Plumbing Tee PT

Product Group Plumbing



- ideal for working in confined spaces e.g. under a bath or shower tray
- extra length and flexibility of the Elbows and Tees provides compensation for shortened or misaligned pipes
- quick, versatile and easy to use solution for many domestic drain, waste and vent plumbing problems
- no special tools required
- ideal for repairs, providing a watertight seal
- can be installed onto any pipe material
- Selected Elbows & Tees are available in V4A (1.4404) and/or NBR-quality (oil and petrol resistant) at extra charge.
- From pages 110, you can find the product variants made of PVC

EPDM Elbows 90°

Product Code	Range (mm)	Colour
PE038_E4	30 – 38	black
PE050_E4	40 – 50	black
PE060_E4	50 – 60	black
PE090_E4	78 – 90	black
PE118_E4	106 – 118	black



EPDM Tees

Product Code	Range (mm)	Colour
PT038_E4	30 – 38	black
PT050_E4	40 – 50	black
PT060_E4	50 – 60	black
PT090_E4	78 – 90	black
PT118_E4	106 – 118	black



Plug for leak proof tests PLP



Product Description:

Product Name	Plug for leak proof tests PLP
Product Group	Plumbing

- Sealing plugs for leak testing water installations
- For sealing water pipes when carrying out leak tests
- Effectively seals pipes in heating and domestic water installations during a test
- Colored design to differentiate between cold and hot water supply
- The sealing plug can be installed manually, with an Allen key SW10 or with a screwdriver
- Made from PP

Product Code	Diameter (inch)	Length – A (mm)	Colour	Net Weight (kg)
PLP-12B	1/2	85	blue	0.1
PLP-12R	1/2	85	red	0.1
PLP-34B	3/4	90	blue	0.1
PLP-34R	3/4	90	red	0.1

Flexible Qwik Trap PQFT



Product Description:

Product Name	Flexible Qwik Trap PQFT
Product Group	Plumbing

- replaces 32 mm or 40 mm plastic or metal siphons
- provides a long-lasting, leak-free connection that resists freeze damage
- to clean, simply squeeze the product – no drain tools or drain cleaners needed
- flexible PVC material adjusts to pipe misalignments
- installation quickly and securely with a common screwdriver or nut driver

Product Code	Range (mm)	Net Weight (kg)
PQFT038	32 – 40 / 40	0.1

Pipe Bandage Pow-R Wrap FPW



Product Description:

Product Name	Pipe Bandage FPW
Product Group	Plumbing

- permanent and economical repair, works on every kind of pipe and hose
- can be used on all fluid bearing pipes and hoses including potable water, steam, air, gas, sewerage and fuel hydraulics
- easy alternative to traditional methods such as cementing, soldering, welding, sleeving and replacement
- wrap will work on wet, dry, clean, dirty or corroded pipes, and even under water
- can be sanded and painted if desired
- repairs virtually any material: copper, rubber, Plastics, Fibreglass, concrete etc.

Product Code	Range (mm)	Net Weight (kg)
FPW25PL	up to OD 25 mm	0.1
FPW80PL	up to OD 80 mm	0.2
FPW150PL	up to OD 150 mm	0.5

Application:



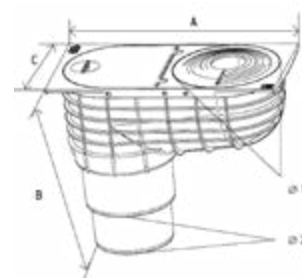
Debris Gully DG



Product Description:

Product Name	Debris Gully DG
Product Group	Flood Protection

- element of the pipe system designed for efficient drainage of rainwater into the sewage system outside the building
- direct connection of the rainwater pipe Ø 50, 63, 75, 80, 90, 100, 110, 120 and 125 mm
- connection to drainage pipes Ø 110 or 125 mm
- durable and reliable, withstands a load of up to 1063 N
- A basket inside catches any debris that flows down with the water (leaves, twigs, pebbles).
- with odour-inhibiting flap as maintenance opening
- protects the building from uneven settlement of the building, cracks in the walls and moisture inside the building by absorbing rainwater
- prevents blockages in the sewer



Product Code	Description	Length – A (mm)	Height – B (mm)	Depth – C (mm)	Ø 1	Ø 2	Net Weight (kg)
DG50-125_GREY	grey	325	259	160	50 – 125	110 / 125	1.1
DG50-125_BROWN*	brown	325	259	160	50 – 125	110 / 125	1.1
DG50-125_BLACK	black	325	259	160	50 – 125	110 / 125	1.1

* minimum purchase quantities apply

Non-Return Valve MwStop® MW



Product Description:

Product Name	MwStop® MW
Product Group	Plumbing

- Protects against flooding, heavy rain and overloading of the drainage system
- Offers optimum protection, prevents damage and keeps out sewage odours
- Available in different sizes and variants, suitable for all standard pipe diameters
- Quick installation in just a few simple steps
- Suitable for residential buildings and public infrastructure
- Made of high-quality V4A (1.4404) and EPDM as standard for a long service life and reliable functionality
- Can be installed in the inlet and outlet of the duct system, horizontally or vertically
- H₂S-resistant
- Available with membrane hardnesses for 0.3 bar, 0.5 bar and 0.8 bar:
 - Membrane for 3 m water column, min. 1 % gradient ***-45**
 - Membrane for 5 m water column, min. 2 % gradient ***-55**
 - Membrane for 8 m water column ***-65**

Depending on the membrane hardness, the abbreviation written in **blue** is added to the product code, e.g. **MW350-55**.

Variants:



MwStop® Standard
Can be installed
on both sides



MwStop® Short
Installation as part
of the pipe inlet



MwStop® One Collar
Clamp attachment
on the shaft

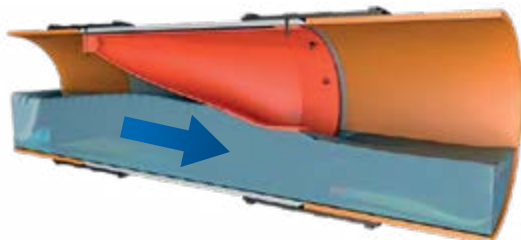


MwStop® Flange
Flange mounting
in the shaft

MwStop® Standard

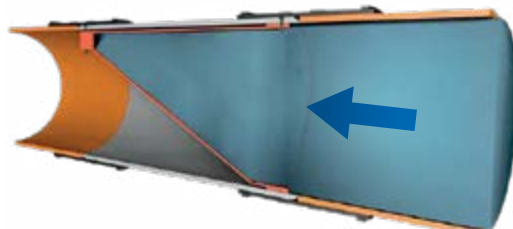
Non-return valve with widening on both sides V4A EPDM

Product Code	DN (mm)	OD (mm)	Length (mm)	suitable for pipes (min – max mm)	Net Weight (kg)
MW100	100	97	220	98 – 111	0.8
MW125	125	115	255	116 – 124	1.1
MW150	150	144.5	310	145.5 – 158.5	2.3
MW200-181	200 – 181	181	400	182 – 199	4.0
MW200-191	200 – 191	191	425	192 – 209	4.0
MW225	225	215	470	216 – 233	4.9
MW250-230	250 – 230	230	520	231 – 252	6.3
MW250-240	250 – 240	240	520	241 – 258	6.3
MW300	300	265	600	266 – 283	10.0
MW300-283	300 – 283	283	650	284 – 301	10.2
MW300-290	300 – 290	290	650	291 – 308	11.0
MW350	350	340	745	341 – 362	20.2
MW400-370	400 – 370	370	760	371 – 392	21.4
MW400-390	400 – 390	390	800	391 – 412	23.6
MW450	450	443	900	444 – 465	30.2
MW500	500	490	970	491 – 504	37.4
MW600	600	587	1200	588 – 597	59.6
MW700	700	690	1350	691 – 708	79.4
MW750	750	750	1500	751 – 768	99.0
MW800	800	790	1580	791 – 808	111.0
MW900	900	885	1780	886 – 913	138.5
MW1000	1000	985	1950	986 – 1008	184.4



Opening in flow direction

Water lifts the membrane, creating a surge flush in the direction of flow.



Backwater protection

Backflow is stopped by the membrane and the pipe behind the valve remains protected.

Optional Accessories:



Ratstop

prevents rodent damage on the membrane



additional gasket

to be fitted on the pipes



Clamps

for pipe end fixing



additional flange

is welded onto the housing – please state the specifications at order

MwStop® Ratstop MWRS



Product Description:

Product Name	MwStop® Ratstop MWRS
Product Group	Plumbing

- Closing flap for a pipe end in which a MwStop® has been installed
- Prevents rodent damage to the sealing diaphragm of the non-return valve
- Made from high-quality V4A (1.4404) as standard

Product Code	DN (mm)
MWRS100	100
MWRS125	125
MWRS150	150
MWRS200-181	200_181
MWRS200-191	200_191
MWRS225	225
MWRS250-230	250_230
MWRS250-240	250_240
MWRS300-283	300_283
MWRS300-290	300_290

MwStop® Home MWH



Product Description:

Product Name	MwStop® Home MWH
Product Group	Plumbing

- Blocks odours from the sewer system
- Used for siphons that dry out due to low usage (flats and houses, holiday properties, catering establishments, seasonal hotels, public facilities), or for installations without siphons (floor drains, dry urinals, installations with little installation space)
- Simple installation
- integrated sealing ring replaces the siphon seal
- without mechanical components
- additional sizes coming soon

Product Code	DN (mm)	OD (mm)	Legth (mm)	Net Weight (kg)
MWH32	32	38.5	54	0.1

Flap Valve FV / FVS



Product Description:

Product Name Flap Valve FV / FVS

Product Group Flood Protection

- lighter weight than conventional cast-iron valves, resulting in easier installation and lower installation costs
- high-strength HDPE resists impact from rocks and other foreign objects found in marine and river environments that could break lighter plastics
- Innovative seal with two hardness zones for better sealing and to avoid unnecessary adhesives during wall mounting
- Low maintenance and fully recyclable as it is made of HDPE
- All models (DN 100 to DN 600) can withstand a constant pressure of 0,7 bar as standard.
- No risk of theft as there is no scrap value
- 25-year minimum life expectancy
- larger sizes available on request

Mounting Sets for FV

Flap Valve	Part Code	Mounting Holes	Description
FV100	WMK-01	4	Flap Valve Mounting Set A4 Stainless Steel Bolts and Chemical Anchors 4xM8 100-200
FV125			
FV150			
FV200			
FV225	WMK-02	5	Flap Valve Mounting Set A4 Stainless Steel Bolts and Chemical Anchors 5xM8 225-300
FV250			
FV300			
FV350	WMK-03	6	Flap Valve Mounting Set A4 Stainless Steel Bolts and Chemical Anchors 6xM8 350-450
FV400			
FV450			
FV500	WMK-04	8	Flap Valve Mounting Set A4 Stainless Steel Bolts and Chemical Anchors 8xM8 500-600
FV600			



FMMS-01

Variants: (more info on our product webpage)



Wall Mounted:
FV



Spigot Mounted:
FVS

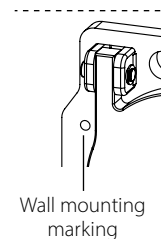
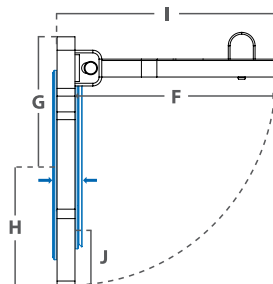
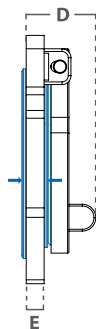
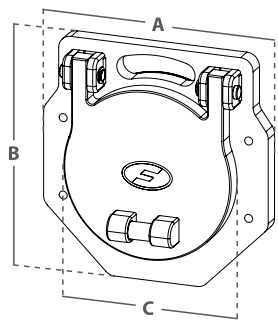


Flange Mounted:
FVF



Tidal Wall Mounted:
FVT

Wall-mounted Flap Valve

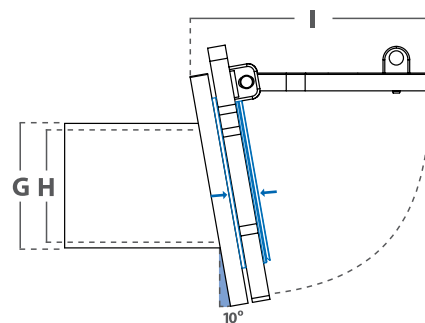
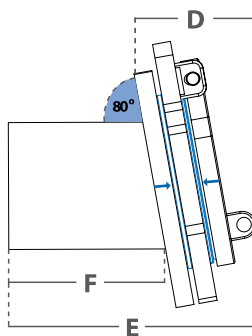
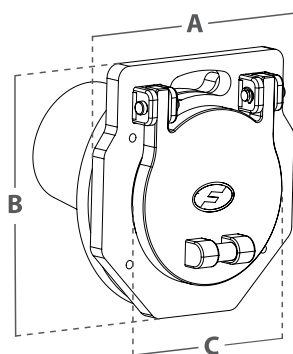


EPDM Co-extrusion seal

Product Code	DN	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	Mounting hole PCD (mm)	Net weight (kg)
FV100	100	212	235	150	79	20	188	129	106	208	56	183	1.3
FV125	125	254	268	175	79	20	213	142	127	233	65	225	1.7
FV150	150	274	291	200	79	20	228	154	137	248	62	240	1.9
FV200	200	341	349	250	79	20	278	179	170	298	70	312	2.6
FV225	225	351	367	275	79	20	303	191	176	323	64	315	3.0
FV250	250	379	392	300	79	20	326	202	190	346	65	350	3.4
FV300	300	429	442	350	79	20	377	228	214	397	64	400	4.2
FV350	350	499	517	400	79	20	452	268	249	472	74	460	5.7
FV400	400	544	565	450	79	20	502	293	272	522	72	515	6.7
FV450	450	594	615	500	79	20	552	318	297	572	72	565	7.9
FV500	500	649	667	550	99	20	602	343	324	622	74	620	10.0
FV600	600	754	770	650	99	20	702	393	377	722	77	725	13.6

All variants: Pressure rating 0,7 bar. These values do not take into account any disruptive external factors such as currents, whirlpools or bulky deposits.

Flap Valve with pipe socket



EPDM Co-extrusion seal

Product Code	DN	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Net weight (kg)
FVS100	100	212	235	150	125	264	165	90	83	232	2.0
FVS125	110	212	235	150	125	267	170	110	101	232	2.7
FVS140	140	256	277	190	132	271	170	125	115	269	3.0
FVS150	150	274	291	200	132	275	175	140	123	272	3.3
FVS160	160	282	300	210	133	278	180	160	147	282	3.4
FVS200	200	341	349	250	142	281	180	180	158	324	4.0
FVS225	225	351	367	275	144	286	185	200	184	347	4.8
FVS250	250	379	392	300	149	290	190	225	211	371	5.5
FVS280	280	414	426	330	155	295	195	250	234	404	6.3
FVS300	300	429	442	350	156	298	200	280	262	422	7.1
FVS350	350	499	517	400	166	303	205	315	299	494	9.3
FVS400	400	544	565	450	171	311	215	355	333	542	11.4
FVS450	450	594	615	500	176	309	215	400	375	595	13.5
FVS500	500	649	667	550	194	382	280	450	422	645	18.0
FVS525	525	685	698	575	197	376	280	500	469	668	19.8
FVS600	600	754	770	650	222	411	300	560	525	746	24.8
FVS630	630	779	797	680	225	407	300	630	591	775	26.3

All variants: Pressure rating 0,7 bar. These values do not take into account any disruptive external factors such as currents, whirlpools or bulky deposits.

Retrofit Non-Return Valve NRV



Product Description:

Product Name	Retrofit Non-Return Valve NRV
Product Group	Flood Protection



- The hydraulics are not affected due to the flush sealing lips
- Proven method for flood protection
- helps to protect houses, properties, commercial buildings, roads, etc.
- maintenance-free
- can be installed in existing chambers within minutes
- use exclusively for faecal-free waste water (grey water)



Horizontal installation
possible



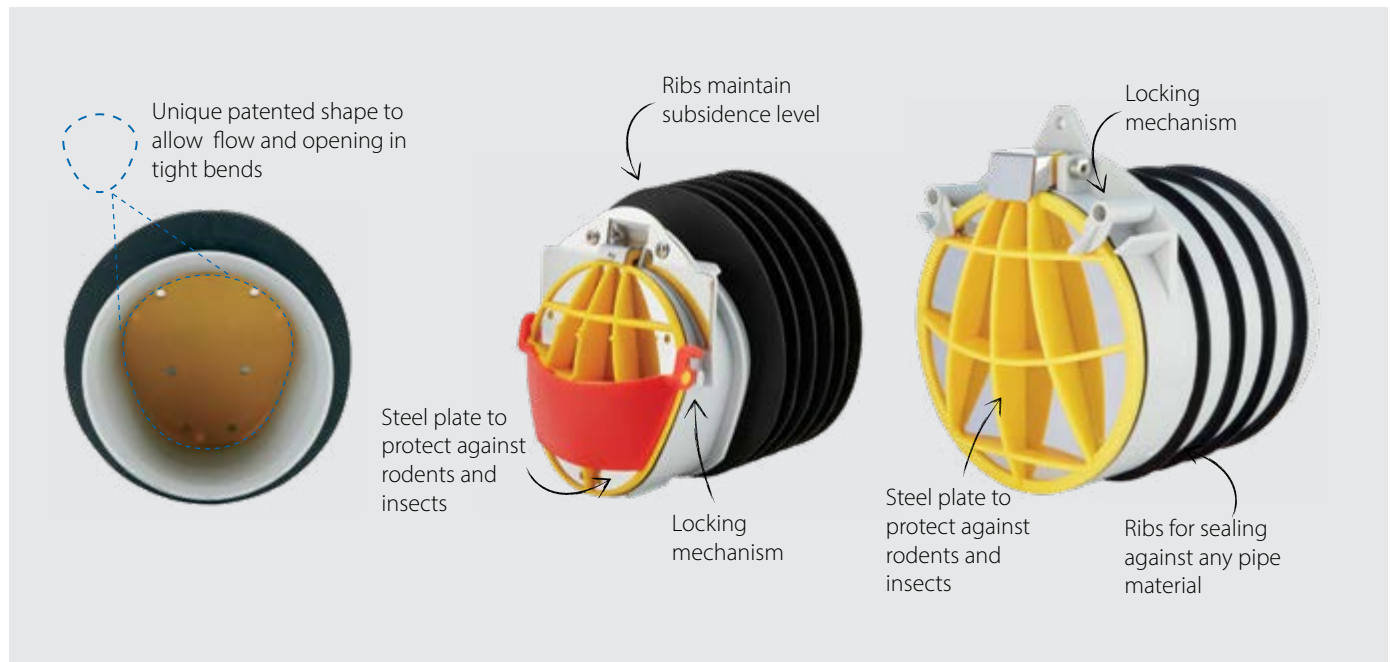
NRV100
for DN 100 pipe inlets



NRV150
for DN 150 pipe inlets

For installation in the pipe

Product Code	Size DN	Size (mm)	Description
NRV100	100	97 – 106	Retrofit Non-Return Valve for DN 100 pipe inlets
NRV150	150	148 – 153	Retrofit Non-Return Valve for DN 150 pipe inlets



for installation on the pipe spigot end



ABS Non-Return Valve with stainless steel flap for pipe spigot ends



Product Code	Size DN	Description
NRV110	110	Retrofit Non-Return Valve for DN 110 spigot ends
NRV160	160	Retrofit Non-Return Valve for DN 160 spigot ends

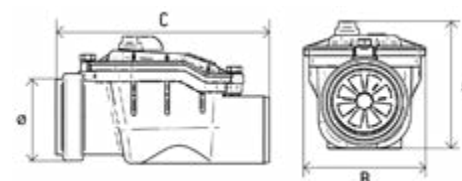
Back Water Valve BWV



Product Description:

Product Name	Back Water Valve BWV
Product Group	Flood Protection

- protect buildings from backflow of rainwater from the drainage system with an automatic closing system
- special design reduces the risk of deposits building up and blocking the flap
- Reliable and low-maintenance
- with manual emergency closure system
- keeps odours and rodents out
- made of ABS; high resistance to aggressive substances
- easy removal of the lid for regular maintenance
- use exclusively for faecal-free waste water (grey water)



	Product Code	Ø (mm)	Height – A (mm)	Width – B (mm)	Length – C (mm)	Net Weight (kg)
	Base Outlet, vertical, single flap – suitable for faecal-free waste water (grey water)					
	BWVBO50-1	50	132	92	140	0.3
	Single flap – suitable for faecal-free waste water (grey water)					
	BWV50-1	50	87	92	169	0.3
	BWV100-1	100	200	190	310	1.3
	BWV110-1	110	220	200	285	1.4
	BWV125-1	125	270	200	400	2.2
	BWV160-1	160	260	235	340	2.3
	BWV200-1	200	353	304	560	7.4
	Double flap – suitable for faecal-free waste water (grey water)					
	BWV110-2	110	195	205	395	2.1
	BWV125-2	125	188	209	440	2.5
	BWV160-2	160	273	304	577	5.8
	BWV200-2	200	353	204	560	8.4

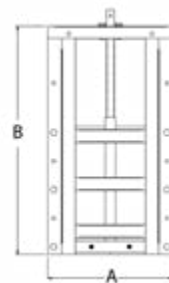
Penstock PS



Product Description:

Product Name	Penstock PS
Product Group	Flood Protection

- high-strength, wall-mounted solution for controlling the flow of water and wastewater using a spindle
- quick and easy installation – no need for grout between frame and wall
- Materials are corrosion-resistant and UV-stable
- robust, rigid construction: little to no maintenance required
- comparatively lightweight series
- manufactured to DIN 19569-4 Class 5



Product Code	Diameter (mm)	Width – A (mm)	Height – B (mm)	Pressure (mwc)	Net Weight (kg)	Mounting kit
PS100	100	242	437	6	6.9	PSMS-01
PS150	150	294	537	6	9.1	PSMS-01
PS200	200	342	637	6	11.4	PSMS-02
PS225	225	375	636	6	12.8	PSMS-02
PS250	250	394	737	6	14.3	PSMS-02
PS300	300	422	837	6	17.2	PSMS-02
PS400	400	670	1150	6	35.2	PSMS-03
PS500	500	770	1650	6	47.3	PSMS-03
PS600	600	870	1550	6	61.2	PSMS-03

optionally available additional components:

PSES500	Extension Spindle Grade 316 Stainless Steel 500 – 750 mm
PSES750	Extension Spindle Grade 316 Stainless Steel 750 – 1000 mm
PSES1000	Extension Spindle Grade 316 Stainless Steel 1000 – 1500 mm
PSES1500	Extension Spindle Grade 316 Stainless Steel 1500 – 2000 mm
PSES2000	Extension Spindle Grade 316 Stainless Steel 2000 – 2500 mm
PSES2500	Extension Spindle Grade 316 Stainless Steel 2500 – 3000 mm
PSES3000	Extension Spindle Grade 316 Stainless Steel 3000 – 3500 mm
PSES3500	Extension Spindle Grade 316 Stainless Steel 3500 – 4000 mm
PSES4000	Extension Spindle Grade 316 Stainless Steel 4000 – 4500 mm
PSES4500	Extension Spindle Grade 316 Stainless Steel 4500 – 5000 mm
PSES5000	Extension Spindle Grade 316 Stainless Steel 5000 – 5500 mm
PSGB	Penstock Guide Bracket A2 304
PSHW	Penstock Hand Wheel
PSTK	Penstock Tee Key

FLOODbag FB



Product description:

Product Name	FLOODbag FB
Product Group	Flood Protection

- compact alternative to sandbags: effective protection for properties, buildings and structures
- suitable for diverting water flows and supporting riverbanks
- highly absorbent material that prevents the passage of further floodwater
- environmentally friendly: filling is biodegradable in pollutant-free water (no petrol and oils)
- absorbs water to prevent damage to buildings - up to 25 liters per bag
- quick and self-explanatory application
- space-saving, easy to transport and can be stored for at least 5 years thanks to waterproof packaging, with experience showing hardly any reduction in quality even after expiry
- UV-stable and resistant to salt water (up to max. 4%)
- disposal via household waste or recycling center
- **Minimum order quantity: 1 packaging unit / box containing 5 bags with 5 FLOODbags each**

Product Code	Material	Length (mm)	Width (mm)	Height (mm)		Weight (kg)	
				dry	soaked up	dry	soaked up
FB01	super absorbent polymer (SAP)	470	520	12	100	0.4	20 – 25*

* Depending on temperature and type of liquid



Sand bag	FLOODbag
✗ Requires time consuming manual filling ✗ Bulky and takes up space ✗ Porous over time ✗ Can deteriorate if stored for a long time ✗ Heavy to lift and position ✗ Saturated with an uneven structure	✓ Pre-filled and quick and easy to deploy ✓ Flat packed for easy storage ✓ Robust to prevent water passing through ✓ Vacuum packed for storage longevity ✓ Lightweight and easy to use ✓ Designed to retain and maintain shape ✓ Multi-purpose for indoor and outdoor usage
60 bags per pallet  will protect 10 – 12 buildings	500 bags per pallet  will protect 100 buildings

Usage:



1. Open the plastic bag, making sure not to damage the FLOODbags.
2. Saturate your FLOODbags in water for a minimum of 5 minutes.
3. Place expanded FLOODbags in layers to build a barrier outside the property.



For indoor use: use dry FLOODbags to absorb leaks from water systems & appliances inside the home

High Pressure Coupling HP



Product Description:

Product Name High Pressure Coupling HP

Product Group Industry

- for high-pressure pipe connections: pressure-tight up to 40 bar
- Areas of application: Drinking water, waste water, compressed air, gases, liquids and coolants, heating and air conditioning systems
- stainless steel always in seawater-resistant V4A (1.4571 / W5) quality
- patented seal made of EPDM, NBR or VITON
- compact design for space-saving installation of pipes
- very good damping of structure-borne noise, vibration and pressure shocks
- can be dismantled and reused

Product Code	Diameter OD (mm)	Metal to Metal	Plastic to Plastic	Metal to Plastic	axially tensile	
HP-Flex	21 – 2090	✓	✓	✓		particularly flexible: other materials possible
HP-Grip	21 – 745	✓			✓	two claw rings for reliable grip
HP-Plastgrip	39 – 640		✓		✓	two plastgrip rings for reliable grip
HP-Combogrip	39 – 640			✓	✓	one special anchoring ring each
HP-Rep	33 – 745	✓	✓	✓		repair coupling. Installation possible under pressure



HP-Flex



HP-Grip



HP-Plastgrip



HP-Combogrip



HP-Rep

Shielded Transition Coupling Proflex PRX



Product Description:

Product Name Shielded Transition Coupling Proflex PRX

Product Group Industry

- creates shear load-resistant transitions that provide both stable and durable pipe connections
- connects drainage and ventilation systems made of e.g. cast iron, plastic, steel and copper
- made of neoprene and V2A (1.4301) as standard

Product Code	OD-Range 1 (mm)	OD-Range 2 (mm)	Width – B (mm)	Pressure (bar)	Torque (Nm)	Net Weight (kg)
PRX3000-150	45 – 50	45 – 50	54	1.0	7	0.2
PRX3006-215	45 – 50	49 – 53	54	1.0	7	0.3
PRX3003-22	49 – 54	49 – 54	54	1.0	7	0.2
PRX3000-22	52 – 58	52 – 58	54	1.0	7	0.3
PRX3000-33	81 – 86	85 – 89	54	1.0	7	0.2
PRX3005-33	84 – 89	86 – 90	54	1.0	7	0.2
PRX3000-43	83 – 90	105 – 115	54	1.0	7	0.4
PRX3005-43	85 – 90	110 – 115	54	1.0	7	0.4
PRX3000-44	105 – 112	105 – 115	54	1.0	7	0.6

Chemical Coupling CC



Product Description:

Product Name	Chemical Coupling CC
Product Group	Industry



- secure connection for underground drainage systems that require high chemical resistance to a wide range of chemicals
- manufactured according to the specific requirements on site
- suitable for above-ground and underground drainage applications
- available with V2A (1.4301) or V4A (1.4404) stainless steel clamp and shear bands
- with a chemically resistant one-piece fluoropolymer (FEP) lining and expanded PTFE seals - chemically inert and solvent-resistant to most chemicals
- Exceptions:
 - molten alkali metals
 - at higher temperatures and pressures: fluorine; complex halogenated compounds, e.g. chlorine trifluoride
 - at extreme temperatures: 80 % sodium hydroxide; metal hydrides; aluminium chloride; ammonia
 - certain ammonium compounds (R-NH₂), which attack the film in a similar way to molten alkali metals

Although special testing may be required when such extreme reducing or oxidising conditions are encountered, the FEP liner and PTFE gaskets have a very wide range of chemical and thermal usability. Final selection should be based on functional evaluation or experience under actual end-use conditions.

Installation:



Bevel the pipe ends to 3 mm x 45°. Slide the FEP lining and sleeve onto the pipe. Push the pipe ends together.



Mark the positions for the PTFE seals symmetrically so that they are directly under the clamp bands.



Attach the self-adhesive seals to the pipes so that the ends of the tapes overlap.



Slide the FEP lining over the seals. Shrink evenly onto the pipe using hot air.



Place coupling in the centre over the FEP lining. Tighten to the recommended torque.

Product Code	Size Range (mm)	Min/Max Pipe-OD (mm)	Torque (Nm)	max. difference between pipe-OD (mm)	Net Weight (kg)
CC065	50 – 65	50 – 60	6	6	0.4
CC075	60 – 75	60 – 70	6	6	0.5
CC085	70 – 85	70 – 80	6	6	0.4
CC095	80 – 95	80 – 90	6	6	0.5
CC115	100 – 115	100 – 110	6	6	0.8
CC120	105 – 120	105 – 120	6	6	0.7
CC125	110 – 125	110 – 115	6	6	0.8
CC137	122 – 137	122 – 132	6	6	0.7
CC150	125 – 150	125 – 145	6	6	0.9
CC165	140 – 165	140 – 160	6	6	0.9
CC175	150 – 175	150 – 170	6	6	0.9
CC185	160 – 185	160 – 180	6	6	1.1
CC200	175 – 200	175 – 195	6	6	1.3
CC215	190 – 215	190 – 210	13	6	1.6
CC225	200 – 225	200 – 220	13	6	1.5
CC250	225 – 250	225 – 245	13	6	1.6
CC265	240 – 265	240 – 260	13	6	1.7
CC275	250 – 275	250 – 270	13	6	2.1
CC290	265 – 290	265 – 285	13	6	2.3
CC310	285 – 310	285 – 305	13	8	3.1
CC320	295 – 320	295 – 315	13	8	3.2
CC335	310 – 335	310 – 330	13	8	3.4
CC345	320 – 345	320 – 340	13	8	3.4
CC360	335 – 360	335 – 355	13	8	3.5
CC370	345 – 370	345 – 365	13	8	3.7
CC385	360 – 385	360 – 380	13	8	3.7
CC395	370 – 395	370 – 390	13	8	4.0
CC410	385 – 410	385 – 405	13	8	4.1
CC425	400 – 425	400 – 420	13	8	4.3
CC430	405 – 430	405 – 425	13	8	4.4
CC445	420 – 445	420 – 440	13	10	4.4
CC450	425 – 450	425 – 445	13	10	4.5
CC465	440 – 465	440 – 460	13	10	4.6
CC470	445 – 470	445 – 465	13	10	4.6
CC490	465 – 490	465 – 485	13	10	4.7
CC510	485 – 510	485 – 505	13	10	4.9
CC525	500 – 525	500 – 520	13	10	5.0
CC540	515 – 540	515 – 535	13	10	5.1
CC550	525 – 550	525 – 545	13	10	5.2
CC560	535 – 560	535 – 555	13	10	5.3
CC570	545 – 570	545 – 565	13	10	5.4
CC580	555 – 580	555 – 575	13	10	5.5
CC600	575 – 600	575 – 595	13	10	5.6
CC620	595 – 620	595 – 615	13	10	5.8

Drainage Coupling PQ, PVC



Product Description:

Product Name	Drainage Coupling PQ
Product Group	Industry

- for pipes with an outer diameter from 23 mm to 219 mm.
- effective solution for joining pipes with similar outside diameters, ideal for all repairs
- quick, versatile and easy to use solution for many drain, waste and vent plumbing problems
- suitable for above and below ground applications
- can be installed on any pipe material
- no special tools required
- provides a watertight seal
- clamping bands made of V2A (1.4301) stainless steel as standard

Application:

- repair of existing pipe systems by replacing short sections of pipe
- connect plain ended pipes
- ss an adapter between pipes of different materials with similar outside diameters



Product Code	Range (mm)	Torque (Nm)
black		
PQ027	23 – 27	6
PQ035	28 – 35	6
PQ041	25 – 42	6
PQ049	36 – 50	6
PQ062	50 – 65	6
PQ070	65 – 70	6
PQ086	70 – 88	6
PQ090	80 – 90	6
PQ101	95 – 101	6
PQ112	98 – 115	6
PQ121	111 – 121	6
PQ133	118 – 136	6
PQ142	136 – 142	6
PQ162	145 – 162	6
PQ188	180 – 188	6
grey		
PQ028_GREY	21 – 29	6
PQ038_GREY	30 – 39	6
PQ042_GREY	31 – 40	6
PQ045_GREY	37 – 45	6
PQ050_GREY	40 – 49	6
PQ058_GREY	50 – 59	6
PQ063_GREY	53 – 62	6
PQ068_GREY	60 – 69	6
PQ085_GREY	75 – 86	6
PQ090_GREY	78 – 89	6
PQ095_GREY	85 – 96	6
PQ112_GREY	101 – 112	6
PQ122_GREY	110 – 123	6
PQ130_GREY	120 – 130	6



Adaptor Coupling PQ, PVC



Product Description:

Product Name Adaptor Coupling PQ

Product Group Industry

- for pipes with an outer diameter from 25 mm to 162 mm
- effective solution for joining pipes with different outside diameters, ideal for all repairs
- quick, versatile and easy to use solution for many drain, waste and vent plumbing problems
- inexpensive option when a shielded coupling is not required
- can be installed on any pipe material
- no special tools required
- provides a watertight seal

Application:

- connect plain ended pipes
- repair of existing pipe systems by replacing short sections of pipe
- inexpensive option when a shielded coupling is not required



Product Code	OD – Range 1 (mm)	OD – Range 2 (mm)	Torque (Nm)
black			
PQ040-032	32 – 40	32 – 32	6
PQ049-041	36 – 50	25 – 42	6
PQ058-038	50 – 58	30 – 38	6
PQ058-045	50 – 58	38 – 45	6
PQ070-060	65 – 70	50 – 60	6
PQ084-060	75 – 90	50 – 63	6
PQ086-047	80 – 86	44 – 47	6
PQ111-085	98 – 115	75 – 88	6
PQ111-049	104 – 111	44 – 49	6
PQ113-059	106 – 113	53 – 59	6
PQ123-111	110 – 125	98 – 114	6
PQ124-118	114 – 124	104 – 118	6
PQ133-114	118 – 136	98 – 114	6
PQ133-084	111 – 133	79 – 84	6
PQ142-111	136 – 142	101 – 111	6
PQ160-133	149 – 160	111 – 133	6
PQ163-111	145 – 168	98 – 115	6
PQ190-162	177 – 190	150 – 162	6
grey			
PQ040-032_GREY	32 – 41	25 – 33	6
PQ045-038_GREY	37 – 46	30 – 39	6
PQ050-032_GREY	42 – 51	25 – 33	6
PQ050-042_GREY	40 – 49	32 – 41	6
PQ058-038_GREY	50 – 59	30 – 39	6
PQ058-045_GREY	50 – 59	37 – 46	6
PQ085-058_GREY	75 – 86	50 – 59	6
PQ085-068_GREY	75 – 86	60 – 69	6
PQ112-045_GREY	100 – 113	37 – 46	6
PQ112-050_GREY	98 – 111	40 – 49	6
PQ112-085_GREY	100 – 113	75 – 86	6
PQ122-112_GREY	110 – 123	100 – 113	6
PQ130-122_GREY	118 – 131	110 – 123	6
PQ135-115_GREY	113 – 135	107 – 115	6

Elbow Connector PQE, PVC



Product Description:

Product Name Elbow Connector PQE

Product Group Industry

- ideal for working in confined spaces e.g. under a bath or shower tray
- extra length and flexibility of the Elbows provides compensation for shortened or misaligned pipes
- quick, versatile and easy to use solution for many domestic drain, waste and vent plumbing problems
- no special tools required to install Elbows
- ideal for repairs, providing a watertight seal
- can be installed onto any pipe material
- available in V4A at extra charge; selected products available nitrile quality (oil and petrol resistant)
- The EPDM product variant can be found on page 88.

PVC Elbow 90°

Product Code	Range (mm)	Torque (Nm)
black		
PQE038	30 – 38	6
PQE048	41 – 48	6
PQE062	54 – 62	6
PQE085	80 – 89	6
PQE112	105 – 116	6
grey		
PQE038_GREY	30 – 38	6
PQE048_GREY	41 – 48	6
PQE062_GREY	54 – 62	6
PQE085_GREY	80 – 89	6
PQE112_GREY	105 – 116	6

Tee-Connector PQT, PVC



Product Description:

Product Name Tee-Connector PQT

Product Group Industry

- ideal for working in confined spaces e.g. under a bath or shower tray
- extra length and flexibility of the Tees provides compensation for shortened or misaligned pipes
- quick, versatile and easy to use solution for many domestic drain, waste and vent plumbing problems
- no special tools required to install Tees
- ideal for repairs, providing a watertight seal
- can be installed onto any pipe material
- available in V4A at extra charge; selected products available nitrile quality (oil and petrol resistant)
- The EPDM product variant can be found on page 88.

PVC Tee-Connector

Product Code	Range (mm)	Torque (Nm)
black		
PQT038	30 – 38	6
PQT048	41 – 48	6
PQT062	54 – 62	6
PQT085	80 – 89	6
PQT112	105 – 116	6
grey		
PQT038_GREY	30 – 38	6
PQT048_GREY	41 – 48	6
PQT062_GREY	54 – 62	6
PQT085_GREY	80 – 89	6
PQT112_GREY	105 – 116	6

Lateral connections overview

Scope of Application	FA150ST	FA150U	FA150B	FA200B	UA	PA	Storm-T	TA
								
Required core hole	172 ± 1 mm	172 ± 1 mm	172 +/(-) 1 mm	232 ± 1 mm	177 ± 1 mm	177 ± 1 mm	177 +1/-0.5 mm	see data sheet
DN connection pipe, regular	Every pipe DN 150 (depending on material: bush required)				PVCu / PVC DN 150			
DN Main pipe	250 N – 350H Jacking Pipe 200 – 300	DN 250 – 450	DN 300 – 1200	DN 400 – 1200	from DN 700	DN 300 – 600		DN 110, 150, 200
Minimum wall thickness	22 mm	23 mm	50 mm	50 mm	30 mm	50 mm (DN 300)*	5 mm	*
Maximum wall thickness	50 mm	ca. 50 mm	150 mm	550 – 1500	122 mm	91 mm (DN 600)*	60 mm	*
Pipe Outer Diameter (mm)	296 – 430	300 – 1500	375 – 1500	550 – 1500	depending on size		315 – 720	200 – 600
Connections of other pipe materials can be made using compensating rings								
Cast Iron / PVCu DN 150	B12-190	MB150	-	-	-	MB150	-	-
Ductile Iron / Structured Pipe / GRP DN 150	B08-170	MB150	-	-	-	MB150	-	-
PE – HD DN 150	B04-180	MB150	-	-	-	MB150	-	-
Vitrified Clay DN 150	B06-178	MB150	-	-	-	MB150	-	-
Cast Iron DN 200	-	-	-	MB200	-	-	-	-
Ductile Iron / Structured Pipe / GRP DN 200	-	-	-	MB200	-	-	-	-
PVCu-KG DN 200 (old)	-	-	-	MB200	-	-	-	-
PVCu / Cast Iron DN 200 (new)	-	-	-	MB200	-	-	-	-

Pipe dimension table

Clay pipes, normal load series according to DIN EN 295

Size DN	Vitrified Clay	DN 1230	EuroCeramic EuroTrad	Gresala	Harsch	Vitrified Clay Jacking Pipe	Size DN
100	131 ± 1.5	131 ± 3	131 ± 3	131 ± 3	131 ± 3		100
125	159 ± 2	159 ± 3,5	160 ± 2	159 ± 3,5	159 ± 3,5		125
150	186 ± 2	186 ± 4	186 ± 2	186 ± 2	186 ± 4	213 +0/-4	150
200	242 ± 5	242 ± 5	243 ± 3	242 ± 3	242 ± 5	276 +0/-6	200
250	299 ± 6	296 ± 6	302 ± 3	300 ± 4	299 ± 6	360 +0/-6	250
300	355 ± 7	350 ± 7	360 ± 4	353 ± 4	355 ± 7	406 +0/-10	300
350	417 ± 7	404 ± 7		417 ± 7			350
400	486 ± 8	460 ± 8	480 ± 5	480 ± 4		556 +0/-12	400
450		524 ± 8					450
500	581 ± 9	581 ± 9	587 ± 6			661 +0/-15	500
600	687 ± 12	687 ± 12	691 ± 8	585 ± 4		766 +0/-18	600
700		790 ± 15		697 ± 5		870 +0/-24	700
800		895 ± 17		795 ± 15		970 +0/-24	800
900		1002 ± 20		895 ± 17			900
1000		1109 ± 23				1275 +0/-30	1000

Clay pipes, high load series according to DIN EN 295

Size DN	Vitrified Clay	DN 1230	EuroCeramic EuroTrad	EuroCeramic EuroTop	Gresala	Size DN
100				122 ± 1.5		100
125						125
150				178 ± 1.5		150
200	254 ± 5	262 ± 5	258 ± 5	237 ± 2	255 ± 4	200
250	318 ± 6	318 ± 6	315 ± 6	296 ± 3	324 ± 4	250
300	376 ± 7	374 ± 7	375 ± 7	357 ± 4	380 ± 4	300
350		430 ± 7				350
400	492 ± 8	490 ± 7	487 ± 8		492 ± 4	400
450		548 ± 8				450
500	609 ± 9	607 ± 9	609 ± 9		609 ± 9	500
600	725 ± 12	721 ± 12	729 ± 12			600
700	832 ± 12	831 ± 15				700
800	932 ± 12	941 ± 17				800
900						900
1000						1000

Other types of pipe

Size DN	Concrete	PVCu PVC	Cast Iron BML	Ductile Iron	GRP	HDPE	Robukan	Ultrarib II	Size DN
100	ca. 144	110	110	118	116	110			100
125		125	135	144	142	125 / 140			125
150	ca. 210	160	160	170	168	160 / 180	174	170	150
200	ca. 260	200	210	222	220	200 / 225	235	225	200
250	ca. 320	250	274	274	272	250 / 280	292	280	250
300	ca. 450	315	326	326	324	315	346	335	300
350		355		378	376	355	399		350
400	ca. 550	400	429	429	427	400	461	450	400
450		450		480	478	450			450
500	ca. 650	500	532	532	530	500 / 560	587	560	500
600	ca. 800	630	635	635	616	630	693		600
700	ca. 880	710		738	718	710			700
800	ca. 1000	800		842	820	800			800
900	ca. 1120	900		945	924	900			900
1000	ca. 1240	1000		1048	1026	1000			1000
1100	ca. 1360			1152	1099				1100
1200	ca. 1480	1200		1255	1229	1200			1200

All outside diameter specifications are given in millimetres.
We cannot guarantee the correctness of these dimensions!

Materials – Stainless Steel & Elastomers

Stainless Steel

Fernco offers two different steel grades. By default, all steel parts of the couplings are made of austenitic stainless steel according to DIN 1.4301 (V2A).

The term “stainless steel” includes a series of steel alloys whose corrosion resistance is based on their chromium content. The chromium contained in the alloy oxidizes and forms a hard, invisible surface protective layer which prevents further corrosion until the surface is damaged, after which this process repeats itself.

Research projects in various countries have shown that austenitic stainless steel, which basically contains 17% chromium and 8% nickel, has good results for the usual soil types and has a service life of up to 100 years. In poorly drained pebbles, in the presence of industrial and mining waste, and in cases where the soil and groundwater have chlorides with a concentration of

more than 1000 ppm, this steel quality tends to be pitting in some cases.

For this reason, Fernco offers two different steel grades.

For the load-bearing surfaces described on the left, as well as for special seals, we also equip our couplings with a steel quality according to DIN 1.4404 (V4A).

An increased molybdenum addition in the alloy improves the corrosion resistance of this steel by a multiple.

Standard version:

Austenitic, stainless steel DIN 1.4301 AISI 304 V2A

Special version:

Austenitic, stainless steel DIN 1.4404 AISI 316 V4A

Elastomers

Depending on the DIN specifications, our seals are manufactured from elastomers according to DIN 681-1 and DIN 681-2.

For most of our seals we use a high-quality EPDM rubber. Natural or synthetic rubbers are primarily used for the production. Our EPDM mixture contains various additives, which ensure that the properties required for the sealing technology are permanently retained.

The EPDM rubber is vulcanized by heating. After this process, it is extremely elastic. Deformations can be carried out as often as desired without changing the initial shape. When the forces acting on the rubber decrease, EPDM almost returns to its initial shape.

EPDM is resistant to most acids and bases found in sewage (detailed inventory is available upon request).

EPDM (Ethylen Propylen-Dien-Monomer)

PDM is a terpolymer elastomer and belongs to the copolymers with a saturated polymer backbone. It has very good aging resistance also with UV- and ozone-load. It is resistant to dilute acids and thus the ideal sealing material for civil engineering applications.

NBR (Nitril-Butadien-Rubber)

NBR is always used when the seal comes into contact with oils and fuels. However, in this material the elastic behaviour deteriorates.

ATTENTION: If you want to use our NBR seals for wastewater purposes, please contact our Technical Sales Department. There you will be informed if this seal is suitable for this purpose.

NR (Natural Rubber)

NR essentially consists of polyisoprene and is obtained from the white milk juice (latex) of certain species of plants growing in tropical areas, mainly from the family of the wolfs milk plants. It has very good elastic properties, but ages very quickly.

SBR (Styrol-Butadien-Rubber)

As one of the best known synthetic rubbers, SBR possesses similar properties as NR (Natural Rubber) but loses its elasticity considerably.

Characteristics	EPDM	NBR	SBR	NR
Ozone Resistance	excellent	adequate	adequate	adequate
Acid Resistance	excellent	adequate	satisfactory	satisfactory
Liquor Resistance	excellent	adequate	satisfactory	satisfactory
Electric Resistance	good	poor	good	excellent
Impact Rebound	satisfactory	satisfactory	satisfactory	good
Elongation at Break	satisfactory	good	good	excellent
Permeability	adequate	good	adequate	poor
Oil Resistance	adequate	good	poor	unsatisfactory
Fuel Resistance	poor	good	unsatisfactory	unsatisfactory
Temperature Window	-40 to +120 °C	-30 to +100 °C	-60 to +80 °C	-40 to +80 °C
Short-term Peak Temperature	+160 °C	+130 °C	+130 °C	+130 °C

Performance & Accreditations

Performance

Due to the high quality of the material used, our couplings are suitable both for pipe laying and in the ground!

Your expected lifetime is 100 years! Additional protection measures may be necessary for sealing sleeves made of stainless steel of grade V2A (1.4301), when they are laid in a filled floor,

e.g. In landfills of industry, mud walls of mines, and in cases where the soil or ground water has a high chloride content. For these applications, sealing sleeves with V4A (1.4404) steel components should be used.

Pressure Table: If properly installed, our sleeves will withstand the following pressures:

Designation	Size	Pressure-tight up to
TC (Type 2A)	all	0.6 bar
SC (Type 2B)	all	2.5 bar
2B1 ALL-IN-ONE (Type 2B)	all	2.5 bar
LC (Type 2B)	up to LC980	1.5 bar
LC (Type 2B)	up to LC1380	1.0 bar
LC (Type 2B)	up to LC1780	0.6 bar
EWC (Type 2B)	all	2.5 bar
EWLC (Type 2B)	up to EWLC980	1.5 bar
EWLC (Type 2B)	up to EWLC1380	1.0 bar
EWLC (Type 2B)	up to EWLC1780	0.6 bar
MAG (Type 2B)	up to MAG385	4.0 bar
MAG (Type 2B)	up to MAG620	2.5 bar
MAG (Type 2B)	up to MAG980	1.5 bar
MAG (Type 2B)	up to MAG1380	1.0 bar
MAG (Type 2B)	up to MAG1780	0.6 bar
WRC (Type 2B)	all	o. G.
MAGWRC (Type 2B)	all	o. G.
IC (ICON)	all	0.5 bar
ICP	all	2.5 bar
IA	all	1.0 bar
DC / PC / TDC (Type 1)	all	0.6 bar
AC / PAC / TAC	all	0.6 bar

Accreditations:

All products of Fernco GmbH are subject to constant quality control by our quality management. In doing so, intensive tests are carried out at the critical points in the production cycle, based on the valid guidelines and our production standards.

Our quality management is documented and certified according to ISO 9001: 2015.

Since Fernco is a worldwide supplier, we are, of course, in possession of the necessary certificates and certificates for the most important countries.



This image shows a full page of blank graph paper. The background is a solid light gray color. Overlaid on this background is a precise grid of thin, light blue horizontal and vertical lines. These lines intersect to form a series of small, identical squares that cover the entire area of the page, leaving no margins or other markings.

Terms and Conditions of Sale

1. Definitions

In these Conditions the following words have the following meanings: "Buyer" the person(s), firm or company from whom an order to supply Products is received by the Company; "Company" Fernico GmbH whose registered address is Hesselnering 31, D-37260 Eschwege, Germany; "Conditions" the standard terms and conditions of sale as set out in this document; "Contract" any contract between the Company and the Buyer for the sale and purchase of the Products; "Delivery Point" the place where delivery of the Products is to take place under Condition 12.1; "Products" any goods agreed in the Contract to be supplied to the Buyer by the Company (including any part of parts of them).

2. Application of the Terms

2.1 Subject to any variation under Condition 2.3, the Contract will be on these Conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document), or which are implied by trade, custom, practice or course of dealing.

2.2 No terms or conditions endorsed upon, delivered with or contained in the Buyer's purchase order, confirmation of order, specification or other document will form part of the Contract simply as a result of such document being referred to in the Contract.

2.3 These Conditions apply to all the Company's sale of Products and any variation to these Conditions and any representations about the Products shall have no effect unless expressly agreed in writing signed by an authorised representative of each party.

2.4 The Contract constitutes the entire agreement and understanding between the parties.

2.5 The Buyer acknowledges that it has not relied on, and shall have no remedy in respect of, any statement, promise, warranty or representation (whether made innocently or negligently) made or given by or on behalf of the Company which is not expressly set out in the Contract. An action for breach of contract is the only remedy for any statement, promise, warranty or representation set out in the Contract (whether made innocently or negligently). Nothing in this Condition 2.5 shall limit or exclude liability for fraud.

3. Description

All samples, drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Products described in them. They will not form part of the Contract.

4. Prices

In the case of all Products sold unless the Contract expressly provides otherwise the price payable by the Buyer for each delivery shall be the Company's ruling price at the date of dispatch. The price for the Products shall be exclusive of any Value Added Tax or any other Tax or duty relating to the manufacture, transportation, import, sale or delivery of the Products together with any appropriate freight, carriage or related charges specified in the relevant carriage tariff at the date of dispatch.

5. Quotations

5.1 Any quotation is given on the basis that no Contract will come into existence until the Company dispatches an acknowledgement of order to the Buyer or (if earlier) the Company delivers the Products to the Buyer. Unless it is stated otherwise in writing, a quotation is valid for a period of twenty-eight days only from the date thereof, provided that the Company has not previously withdrawn it.

5.2 Any acceptance of the quotation received late may be accepted by the Company in its discretion in which case it shall be binding upon the Buyer.

5.3 Clerical errors and/or omissions in the Company's quotation acknowledgement or invoice shall be rectified by the Company as soon as discovered and such errors and omissions shall not be binding upon the Company nor permit the Buyer to vary the Contract or any of its terms.

6. Acceptance of Orders

6.1 Each order for Products by the Buyer to the Company shall be deemed to be an offer by the Buyer to purchase Products subject to these Conditions.

6.2 No order placed by the Buyer shall be deemed to be accepted by the Company until the Company issues a written acknowledgement of order or (if earlier) the Company delivers the Products to the Buyer.

7. Payment of Accounts

7.1 Unless otherwise agreed in writing, payment of the price of the Products is due:

7.1.1 in the case of deliveries to a Buyer in the United Kingdom at the end of the month following that in which the Products are dispatched; or

7.1.2 in the case of deliveries to a Buyer outside the United Kingdom the price is payable in full against receipt of a shipping document by the Buyers agents.

7.2 Any delay or default by the Buyer in making payment in accordance with condition 7.1 shall render all sums owing to the Company on any account whatsoever including the costs of recovery of such sums, due and payable forthwith without requirement for any notice to be given to the Buyer, and interest will be charged in accordance with condition 7.6 with immediate effect until the date of actual payment.

7.3 No payment shall be deemed to have been received until the Company has received cleared funds.

7.4 All payments payable to the Company under the Contract shall become due immediately upon termination of this Contract despite any other provision.

7.5 The Buyer shall make all payments due under the Contract without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Buyer has a valid court order requiring an amount equal to such deduction to be paid by the Company to the Buyer.

7.6 If the Buyer fails to pay the Company any sum due pursuant to the Contract the Buyer will be liable to pay interest to the Company on such sum from the due date for payment at the rate of 8% above The Bank of England's base rate then in force, accruing on a daily basis until payment is made, whether before or after any judgment.

7.7 The Company may at any time or times without notice to the Buyer, set off any liability of the Company to the Buyer against any liability of the Buyer to the Company. 7.8 Credit facilities may be withdrawn or reduced at any time at the Company's sole discretion. 7.9 The Company may accept payment of account by credit card subject to a 2.5 % surcharge.

8. Title and Risk

8.1 The risk in the Product shall pass to the Buyer when the Product is loaded on to the Buyer's or the Buyer's carrier's vehicle or when delivered to the Buyer's order whichever is the sooner. 8.2 The ownership of the Product shall not pass to the Buyer until the Company has received in full (in cash or cleared funds) all sums due in respect of:

8.2.1 the Products; and 8.2.2 all other sums which are or which become due to the Company from the Buyer on any account.

8.3 Until ownership of the Products has passed to the Buyer, the Buyer must: 8.3.1 hold the Products on a fiduciary basis as the Company's bailee; 8.3.2 store the Products (at no cost to the Company) separately from all other goods of the Buyer or any third party in such a way that they remain readily identifiable as the Company's property; 8.3.3 not destroy, deface or obscure any identifying mark or packaging on or relating to the Products; 8.3.4 maintain the Products in satisfactory condition insured on the Company's behalf for their full price against all risks to the reasonable satisfaction of the Company. On request the Buyer shall produce the policy of insurance to the Company; and 8.3.5 hold the proceeds of the insurance referred to in Condition 8.3.4 on trust for the Company and not mix them with any other money, nor pay the proceeds into an overdrawn bank account.

8.4 The Buyer may resell the Products before ownership has passed to it solely on the following conditions: 8.4.1 any sale shall be effected in the ordinary course of the Buyer's business at full market value; and 8.4.2 any such sale shall be a sale of the Company's property on the Buyer's own behalf and the Buyer shall deal as principal when making such a sale.

8.5 The Buyer's right to possession of the Products shall terminate immediately if: 8.5.1 the Buyer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any Act for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or a resolution is passed or a petition presented to any court for the winding up of the Buyer or for the granting of an administration order in respect of the Buyer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Buyer; or 8.5.2 the Buyer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe/performs any of his/its obligations under the Contract or any other contract between the Company and the Buyer, or is unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or the Buyer ceases to trade; or 8.5.3 the Buyer encumbers or in any way charges any of the Products.

8.6 The Company shall be entitled to recover payment for the Products notwithstanding that ownership of any of the Products has not passed from the Company.

8.7 The Buyer grants the Company, its agents and employees an irrevocable license at any time to enter any premises where the Products are or may be stored in order to inspect them, or where the Buyer's right to possession has terminated, to recover them.

9. Delivery by Instalments

In all cases where the Contract provides for delivery by instalments or part deliveries each instalment or part delivery shall be deemed to be a separate contract and cancellation of any one instalment or part delivery shall not avoid or affect contracts as to the other instalments or part deliveries.

10. Buyer's Default

The Company, may at its option, cancel or withhold all further deliveries under the Contract in the event that any debt is due and payable to the Company by the Buyer but is unpaid or upon the commencement of any act or proceeding in which the Buyer's solvency is involved.

11. Delivery

11.1 Unless otherwise agreed in writing by the Company delivery of the Products shall take place at the Buyer's place of business or at a specified delivery address stated on the Buyer's purchase order.

11.2 Dates for delivery are approximate and unless the parties agree in writing otherwise time shall not be of the essence. If no dates are so specified, delivery will be within a reasonable time.

11.3 Subject to any other provisions of these Conditions, the Company shall not be liable for any loss (including loss of profits), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of the Products (even if caused by the Company's negligence).

11.4 In the event of a delivery of any Products as a result of any cause beyond the Company's reasonable control, the Buyer shall have no right to terminate or rescind the Contract unless such delay exceeds 30 days.

11.5 Where a delay in delivery is due to a cause within the Company's reasonable control the Company's liability and the Buyer's exclusive remedy shall be limited to the right to cancel the Contract in respect of the Products so affected.

11.6 If for any reason the Buyer will not accept delivery of any of the Products when they are ready for delivery, or the Company is unable to deliver the Products on time because the Buyer has not provided appropriate instructions, documents, licenses or authorisations: 11.6.1 risk in the Products will pass to the Buyer (including for loss or damage caused by the Company's negligence); 11.6.2 the Products will be deemed to have been delivered; and 11.6.3 the Company may store the Products until delivery whereupon the Buyer will be liable for all related costs and expenses (including without limitation storage and insurance). 11.7 The Buyer will provide at its expense at the Delivery Point adequate and appropriate equipment and manual labour for loading the Products.

12. Non Delivery

12.1 The quantity of any consignment of Products as recorded by the Company upon dispatch from the Company's place of business shall be conclusive evidence of the quantity received by the Buyer on delivery unless the Buyer can provide conclusive evidence proving the contrary.

12.2 The Company shall not be liable for any non-delivery of Products (even if caused by the Company's negligence) unless written notice is given to the Company within 14 days of the date when the Products would in the ordinary course of events have been received.

12.3 Any liability of the Company for non-delivery of the Products shall be limited to replacing the Products within a reasonable time or issuing a credit note at the pro rata Contract rate against any invoice raised for such Products.

13. Loss or Damage in Transit

13.1 Save in cases where the Company is responsible for the delivery of the Product it shall not be liable for any damage, shortage or loss in transit or in respect of any claim consequential thereto.

13.2 In cases where the Company is responsible for the delivery of the Product the Buyer shall notify the Company in writing of any shortage, damage or loss in transit within 3 days of the date of receipt.

13.3 In cases where notice is given under Condition 14.2 hereof the Company's liability shall be limited to the cost of the Product so damaged lost or in short supply. The Company shall not be liable for any consequential loss save in cases where the Buyer has given notice in writing to the Company at the time of placing the order of the nature and extent of any claim liable to arise from loss or damage in transit.

13.4 In cases where the Company is responsible for delivery of the Product the Buyer shall be responsible for providing labour for the purpose of unloading and such unloading shall be at the Buyer's risk. In the event of unloading being undertaken by the Company's employees either (a) pursuant to the Buyer's instructions or (b) in the absence of instructions from the Buyer, such unloading shall be at the Buyer's risk.

14. Defects

14.1 Any defects in the Product howsoever arising must be notified in writing to the Company by the Buyer within 14 days of their receipt. 14.2 In the event of such notice being received in accordance with Condition 14.1 the Buyer must make available the defective Product for the Company's examination. Should the Company find the Product is defective, the Company shall at its option either rectify the defects free of charge, or replace the defective Product free of charge or allow to the Buyer a credit in the amount of the defective Product.

14.3 If the Company complies with Condition 14.2 it shall have no further liability for defects in the Products.

15. Conformity

Goods supplied by the Company will be of satisfactory quality and free from any material defects. The Company also confirms that all goods supplied conform in all respects with all relevant specifications.

16. Limitation of Liability

16.1 The following provisions of this Condition 18 set out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and subcontractors) to the Buyer in respect of:

16.1.1 any breach of these Conditions; and

16.1.2 any representation, statement or tortious act or omission including negligence arising under or in connection with the Contract. 16.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

16.3 Nothing in these Conditions excludes or limits the liability of the Company for:

16.3.1 death or personal injury caused by the Company's negligence, or the negligence of its employees, agents or sub-contractors;

16.3.2 fraud or fraudulent misrepresentation; or

16.3.3 any other liability which cannot be legally excluded or limited. (The Buyer's attention is drawn to the provisions of Condition 18.4 below)

16.4 Subject to Conditions 18.2 and 18.3:

16.4.1 the Company's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation or otherwise, arising in connection with the performance or contemplated performance of this Contract shall be limited to the cost of the Product to which any complaint relates save where written notice is given by the Buyer to the Company prior to delivery of the Products indicating the nature of any potential claim arising out of the said delivery; and

16.4.2 the Company shall not be liable to the Buyer for any indirect or consequential loss or damage (whether for loss of profit, loss of business, depletion of goodwill or otherwise), costs, expenses or other claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.

17. Assignment

17.1 The Buyer shall not be entitled to assign the Contract or any part of it without prior written consent of the Company. 17.2 The Company may assign the Contract or any part of it to any person, firm or company.

18. General

18.1 Each right or remedy of the Company under the Contract is without prejudice to any other right or remedy of the Company whether under the Contract or not. 18.2 If any provision of the Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability unenforceability or unreasonableness be deemed severable and the remaining provisions of the Contract and the remainder of such provision shall continue in full force and effect. 18.3 Failure or delay by the Company in enforcing or partially enforcing any provisions of the Contract and the remainder of such provision shall continue in full force and effect. 18.4 Any waiver by the Company or any breach of, or any default under, any provision of the Contract by the Buyer will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of the Contract. 18.5 The parties to this Contract do not intend that any term of this Contract will be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it. 18.6 The formation, existence, construction, performance, validity and all aspects of the Contract, including the legal relationships established by the Contract shall be governed by the laws of Germany and the parties submit to the exclusive jurisdiction of the court of Eschwege / Germany.

For Your Notes

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