

FLEXIBLE AND VERSATILE **STRAUB-OPEN-FLEX**

With joint, slotted casing, 2-part or 3-part, STRAUB-OPEN-FLEX can be mounted easily and quickly on existing pipes.

STRAUB-OPEN-FLEX pipe couplings have the same characteristics as STRAUB-FLEX couplings, but expand their possible uses.

The casings of the STRAUB-OPEN-FLEX product series can be hinged or available as 2-part or 3-part version. As a result, STRAUB-OPEN-FLEX couplings can be used for connecting pipes or repairs without removal of existing pipes.

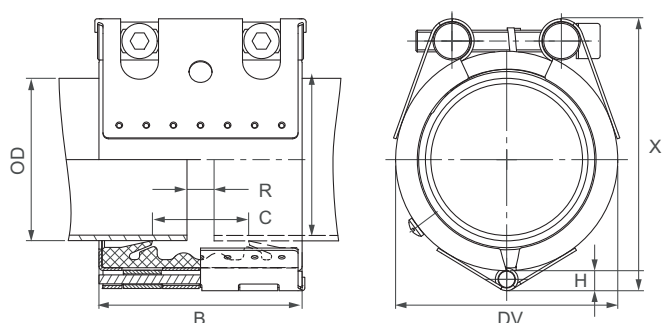


-
- Outside diameter: 48.3 up to 4064.0 mm
 - Temperature: -20°C up to +180°C
(OPEN-FLEX 3.5 + 4 up to +100°C)
 - Sealing sleeve: EPDM, NBR, FPM/FKM
-



Components / Materials	W1	W2	W4	W5
Casing		AISI 316 L or similar		AISI 316 L or similar
Bolts		AISI 4135		A4 - 80
Bars		AISI 12L14, galvanised		AISI 316 L
Strip insert (option)		AISI 316 L or similar / VDF		AISI 316 L or similar / PVDF

Sealing sleeve EPDM	Temp.: -20°C up to +100°C
	Medium: all qualities of water, waste water, air, solids and chemical products
Sealing sleeve NBR	Temp.: -20°C up to +80°C
	Medium: water, gas, oil, fuel and other hydrocarbons
Sealing sleeve FPM/ FKM	Temp.: -20°C up to +180°C
	Medium: ozone, oxygen, acids, gas, oil and fuel (only with strip insert)



OD [mm]	High H [mm]
48.3 - 60.3	7.0
73.0 - 114.3	9.0
127.0 - 168.3	9.5



OD [mm]	Clamping range [mm]	PN [bar]	PN [bar]	B [mm]	C [mm]	DV [mm]	X [mm]	R without strip insert [mm]	R with strip insert [mm]	Torque rate [Nm]
48.3	47.0 - 50.0	25	16	75	35	70	89	5	15	7.5
54.0	52.5 - 55.5	25	16	75	35	76	94	5	15	7.5
57.0	55.5 - 58.5	25	16	75	35	79	97	5	15	7.5
60.3	59.0 - 63.0	25	16	75	35	82	101	5	15	7.5
73.0	71.5 - 75.0	25	16	94	51	95	119	5	25	10
76.1	74.5 - 77.5	25	16	94	51	98	123	5	25	10
84.0	82.5 - 85.5	25	16	94	51	106	131	5	25	10
88.9	87.5 - 90.5	25	16	94	51	111	136	5	25	10
100.6	99.0 - 102.5	25	16	94	51	123	148	5	25	10
101.6	100.0 - 103.5	25	16	94	51	124	148	5	25	10
104.0	102.5 - 105.5	20	16	94	51	126	152	5	25	10
104.8	103.0 - 106.5	20	16	94	51	127	152	5	25	10
108.0	106.5 - 110.0	20	16	94	51	130	156	5	25	10
114.3	112.5 - 116.0	20	16	94	51	136	162	5	25	10
118.0	116.0 - 120.0	20	16	94	51	140	166	5	25	10
127.0	125.0 - 129.0	20	16	107	62	149	179	5	35	12
129.0	127.0 - 131.0	20	16	107	62	151	181	5	35	12
130.2	128.5 - 132.0	20	16	107	62	152	181	5	35	12
133.0	131.0 - 135.0	16	16	107	62	155	189	5	35	12
139.7	138.0 - 141.5	16	16	107	62	162	192	5	35	12
141.3	139.5 - 143.0	16	16	107	62	163	192	5	35	12
154.0	152.0 - 156.0	16	16	107	62	176	207	5	35	12
159.0	157.0 - 161.0	16	16	107	62	181	212	5	35	12
168.3	166.0 - 170.5	16	16	107	62	190	225	5	35	12

Remarks:

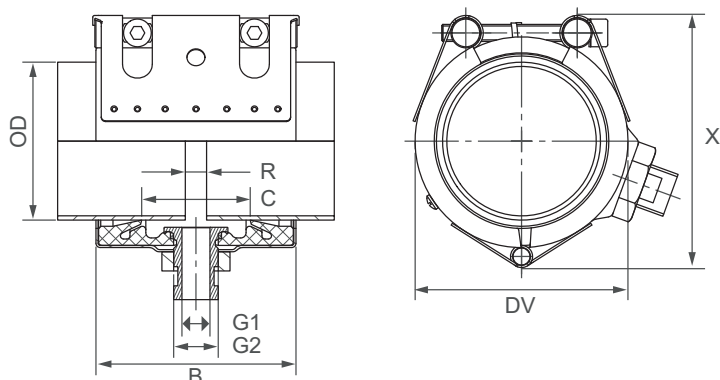
- Follow fitting instructions
- PN () = working pressure considering the application loads
Test pressure = PN () x 1.5 (for example industry, water supply etc.)
PN () = nominal pressure, includes four times safety factor (e.g. shipbuilding)
- Strip inserts are optional accessories (see page 87)
- Additional sealing sleeves, pressure and temperature ranges on request

STRAUB-OPEN-FLEX 1 GT (with side outlet)

ø 73.0 - 168.3 mm

Components / Materials	W1	W2	W4	W5
Casing		AISI 316 L or similar		AISI 316 L or similar
Bolts		AISI 4135		A4 - 80
Bars		AISI 12L14, galvanised		AISI 316 L

Sealing sleeve	Temp.: -20°C up to +70°C
EPDM	Medium: all qualities of water, waste water, air, solids and chemical products
Sealing sleeve	Temp.: -20°C up to +70°C
NBR	Medium: water, gas, oil, fuel and other hydrocarbons



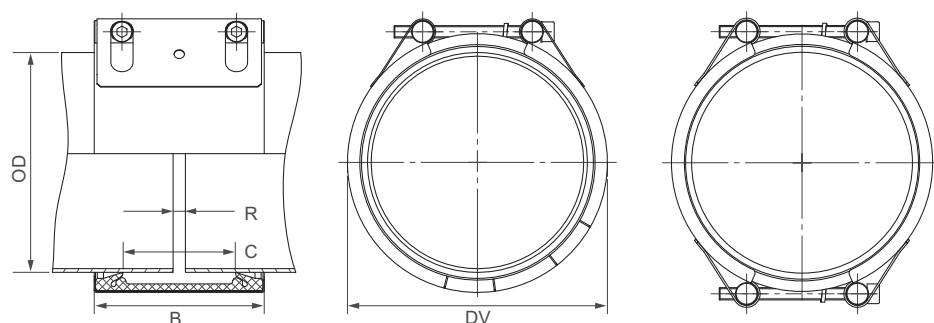
OD [mm]	Clamping range [mm]	PN [bar]	B [mm]	C [mm]	DV [mm]	X [mm]	G1 [Zoll]	G2 [Zoll]	Torque rate [Nm]
73.0	71.5 - 74.5	16	94	51	95	119	1/4	1/2	10
76.1	74.5 - 77.5	16	94	51	98	123	1/4	1/2	10
84.0	82.5 - 85.5	16	94	51	106	131	1/4	1/2	10
88.9	87.5 - 90.5	16	94	51	111	136	1/4	1/2	10
100.6	99.0 - 102.5	16	94	51	123	148	1/4	1/2	10
101.6	100.0 - 103.5	16	94	51	124	148	1/4	1/2	10
104.0	102.5 - 105.5	16	94	51	126	152	1/4	1/2	10
104.8	103.0 - 106.5	16	94	51	127	152	1/4	1/2	10
108.0	106.5 - 109.5	16	94	51	130	156	1/4	1/2	10
114.3	112.5 - 116.0	16	94	51	136	162	1/4	1/2	10
118.0	116.0 - 120.0	16	94	51	140	166	1/4	1/2	10
127.0	125.0 - 129.0	16	107	62	149	179	3/4	1	12
129.0	127.0 - 131.0	16	107	62	151	181	3/4	1	12
130.2	128.5 - 132.0	16	107	62	152	181	3/4	1	12
133.0	131.0 - 135.0	16	107	62	155	189	3/4	1	12
139.7	138.0 - 141.5	16	107	62	162	192	3/4	1	12
141.3	139.5 - 143.0	16	107	62	163	192	3/4	1	12
154.0	152.0 - 156.0	16	107	62	176	207	3/4	1	12
159.0	157.0 - 161.0	16	107	62	181	212	3/4	1	12
168.3	166.0 - 170.5	16	107	62	190	225	3/4	1	12

Remarks:

- Follow fitting instructions
- PN = working pressure considering the application loads
Test pressure = PN x 1.5 (for example industry, water supply etc.)
- Strip inserts not to be applied
- Not suitable for vacuum applications
- Additional sealing sleeves, pressure and temperature ranges on request

Components / Materials	W1	W2	W4	W5
Casing	S355MC, hot-dip galvanised	AISI 316 L or similar		AISI 316 L or similar
Bolts	AISI 4135	AISI 4135		A4 - 80
Bars	AISI 12L14, galvanised	AISI 12L14, galvanised		AISI 316 L or similar
Strip insert (option)	AISI 316 L or similar / HDPE	AISI 316 L or similar / HDPE		AISI 316 L or similar / HDPE

Sealing sleeve EPDM	Temp.: -20°C up to +100°C
	Medium: all qualities of water, waste water, air, solids and chemical products
Sealing sleeve NBR	Temp.: -20°C up to +80°C
	Medium: water, gas, oil, fuel and other hydrocarbons
Sealing sleeve FPM/ FKM	Temp.: -20°C up to +180°C
	Medium: ozone, oxygen, acids, gas, oil and fuel (only with strip insert)



B	⇒	138 up to 148 mm
DV	⇒	OD + 27 mm
C	⇒	91 mm
R with strip insert	⇒	35 mm
R without strip insert	⇒	10 mm

	W2 or W5
	W1, W2 or W5
	W1 or W5
	only in W1 available

OD [mm]	Clamping range [mm]	PN						PN [bar]
		2.5	6	10	16	20	25	
172.0	170 - 174							
180.0	178 - 182							
200.0	198 - 202							
219.1	217 - 222							
250.0	248 - 253							
267.0	264 - 270							
273.0	270 - 276							
304.0	301 - 307							
323.9	321 - 327							
355.6	353 - 358							
406.4	404 - 409							
457.2	454 - 460							
508.0	505 - 511							
558.8	556 - 562							
609.6	606 - 613							
711.2	708 - 715							
762.0	758 - 766							
812.8	809 - 817							
914.4	910 - 918							
1016.0	1012 - 1020							
1117.6	1114 - 1122							
1219.2	1215 - 1224							
1320.8	1316 - 1325							
1422.4	1418 - 1427							
1524.0	1519 - 1529							
1600.0	1595 - 1605							
1625.6	1621 - 1631							
1727.2	1722 - 1732							
1828.8	1824 - 1834							
1930.4	1925 - 1935							
2032.0	2027 - 2037							

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 172.0 TO 2032.0 mm ARE AVAILABLE

Pressure rates according to type approval

Remarks:

- Follow fitting instructions
- PN () = working pressure considering the application loads
Test pressure = PN () x 1.5 (for example industry, water supply etc.)
PN () = nominal pressure, includes four times safety factor (e.g. shipbuilding)
- Strip inserts are optional accessories (see page 87)
- Additional sealing sleeves, pressure and temperature ranges on request

Versions:

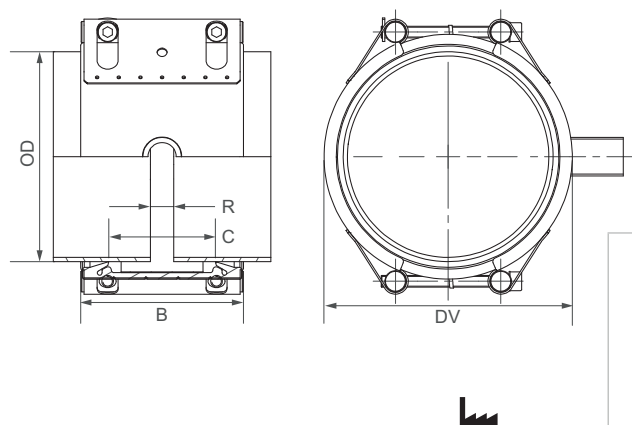
PN						1 piece (slotted)	2 piece casing
2.5	6	10	16	20	25	[mm]	[mm]
x	x					≤1219.1	on order
x	x						> 1219.1
		x				172.0 - 355.6	on order
		x					355.6 - 457.2
		x				457.2 - 711.2	on order
		x					> 711.2
			x			≤219.1	on order
			x				219.1 - 1524.0
				x			172.0 - 1016.0
					x		180.0 - 762.0

STRAUB-OPEN-FLEX 2 GT

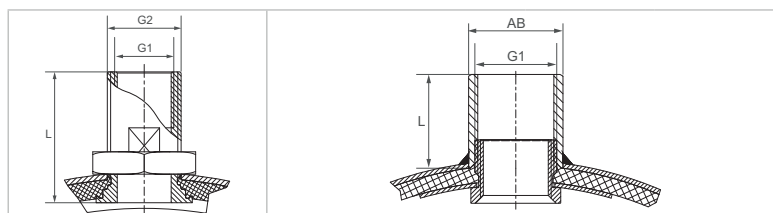
(with side outlet)

ø 172.0 - 2032.0 mm

Components / Materials	W1	W2	W4	W5
Casing	S355MC, hot-dip galvanised	AISI 316 L or similar		AISI 316 L or similar
Bolts	AISI 4135	AISI 4135		A4 - 80
Bars	AISI 12L 14, galvanised	AISI 12L 14, galvanised		AISI 316 L or similar
Strip insert (on request)	AISI 316 L / HDPE	AISI 316 L / HDPE		AISI 316 L / HDPE
GT side outlet	AISI 316 L	AISI 316 L		AISI 316 L
Sealing sleeve EPDM	Temp.: -20°C up to +70°C Medium: all qualities of water, waste water, air, solids and chemical products			
Sealing sleeve NBR	Temp.: -20°C up to +70°C Medium: water, gas, oil, fuel and other hydrocarbons			



DV ⇒ OD + 27 mm
C ⇒ 91 mm
R with strip insert ⇒ 35 mm
R without strip insert ⇒ 10 mm



G1								G ¼"	G ¾"	G 1"	G 1¼"	G 1½"	G 2"				
G2 / AB								G ½"	G 1"	39.5 mm	48.3 mm	54.5 mm	66.3 mm				
L														43.0 mm	48.0 mm	48.0 mm	56.0 mm
OD [mm]	Clamping range [mm]	PN						version 1 screwed	version 2 screwed	version 3 welded	version 4 welded	version 5 welded	version 6 welded				
		2.5	6	10	16	20	25										
172.0	170 - 174							x	x								
180.0	178 - 182							x	x	x							
200.0	198 - 202							x	x	x							
219.1	217 - 222							x	x	x							
250.0	248 - 253							x	x	x							
267.0	264 - 270							x	x	x							
273.0	270 - 276							x	x	x	x						
304.0	301 - 307							x	x	x	x						
323.9	321 - 327							x	x	x	x						
355.6	353 - 358							x	x	x	x						
406.4	404 - 409							x	x	x	x	x					
457.2	454 - 460							x	x	x	x	x					
508.0	505 - 511							x	x	x	x	x					
558.8	556 - 562							x	x	x	x	x	x				
609.6	606 - 613							x	x	x	x	x	x				
711.2	708 - 715							x	x	x	x	x	x				
762.0	758 - 766							x	x	x	x	x	x				
812.8	809 - 817							x	x	x	x	x	x				
914.4	910 - 918							x	x	x	x	x	x				
1016.0	1012 - 1020							x	x	x	x	x	x				
1117.6	1114 - 1122							x	x	x	x	x	x				
1219.2	1215 - 1224							x	x	x	x	x	x				
1320.8	1316 - 1325							x	x	x	x	x	x				
1422.4	1418 - 1427							x	x	x	x	x	x				
1524.0	1519 - 1529							x	x	x	x	x	x				
1600.0	1595 - 1605							x	x	x	x	x	x				
1625.6	1621 - 1631							x	x	x	x	x	x				
1727.2	1722 - 1732							x	x	x	x	x	x				
1828.8	1824 - 1834							x	x	x	x	x	x				
1930.4	1925 - 1935							x	x	x	x	x	x				
2032.0	2027 - 2037							x	x	x	x	x	x				

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 172.0 TO 2032.0 mm ARE AVAILABLE
STRAUB-OPEN-FLEX 3 GT, 3.5 GT AND 4 GT WITH OUTLET G3/4"/1" AVAILABLE AS WELL

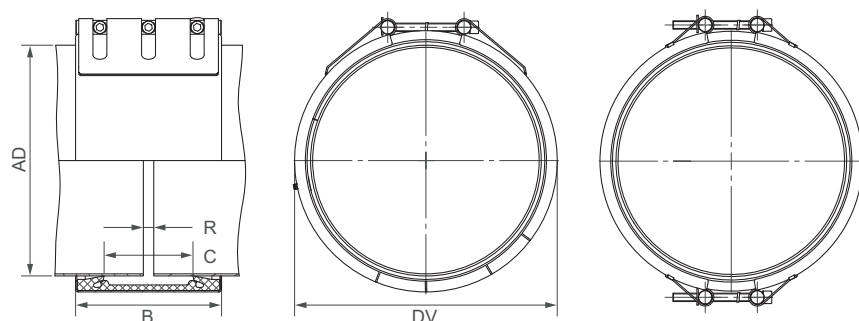
Remarks:

- Follow fitting instructions
- PN = working pressure considering the application loads
Test pressure = PN x 1.5 (for example industry, water supply etc.)
- Version 1 + 2 with outside- and inside thread
- Version 3 - 6 with inside thread and outside blank (AB)
- Only in two-piece version available

Typing errors may occur. Technical details are subject to change.

Components / Materials	W1	W2	W4	W5
Casing	S355MC, hot-dip galvanised	AISI 316 L or similar		AISI 316 L or similar
Bolts	AISI 4135	AISI 4135		A4 - 80
Bars	AISI 12L14, galvanised	AISI 12L14, galvanised		AISI 316 L or similar
Strip insert (option)	AISI 316 L or similar / HDPE	AISI 316 L or similar / HDPE		AISI 316 L or similar / HDPE

Sealing sleeve EPDM	Temp.: -20°C up to +100°C
	Medium: all qualities of water, waste water, air, solids and chemical products
Sealing sleeve NBR	Temp.: -20°C up to +80°C
	Medium: water, gas, oil, fuel and other hydrocarbons
Sealing sleeve FPM/ FKM (on request)	Temp.: -20°C up to +180°C
	Medium: ozone, oxygen, acids, gas, oil and fuel (only with strip insert)



B	⇒	210 up to 218 mm
DV	⇒	OD + 38 mm
C	⇒	127 mm
R with strip insert	⇒	60 mm
R without strip insert	⇒	15 mm

	W2 or W5
	W1, W2 or W5
	W1 or W5
	only in W1 available

OD [mm]	Clamping range [mm]	PN					
		2.5	6	10	16	20	25
219.1	216 - 222						
250.0	247 - 253						
267.0	264 - 270						
273.0	270 - 276						
304.0	301 - 307						
323.9	321 - 327						
355.6	352 - 358						
406.4	403 - 409						
457.2	454 - 460						
508.0	504 - 512						
558.8	555 - 562						
609.6	606 - 613						
711.2	707 - 715						
762.0	758 - 766						
812.8	809 - 817						
914.4	910 - 918						
1016.0	1012 - 1020						
1117.6	1113 - 1122						
1219.2	1215 - 1224						
1320.8	1316 - 1325						
1422.4	1418 - 1427						
1524.0	1519 - 1529						
1600.0	1595 - 1605						
1625.6	1621 - 1631						
1727.2	1722 - 1732						
1828.8	1824 - 1834						
1930.4	1925 - 1935						
2032.0	2027 - 2037						
2268.0	2263 - 2273						
2540.0	2535 - 2545						
2794.0	2789 - 2799						
3048.0	3043 - 3053						
3302.0	3296 - 3308						
3556.0	3548 - 3562						
3810.0	3804 - 3816						
4064.0	4058 - 4070						

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 219.1 TO 4064.0 mm ARE AVAILABLE

Remarks:

- Follow fitting instructions
- PN = working pressure considering the application loads
Test pressure = PN x 1.5 (for example industry, water supply etc.)
- Strip inserts are optional accessories (see page 87)
- Additional sealing sleeves, pressure and temperature ranges on request

Versions:

PN						1 piece (slotted) [mm]	2 piece casing [mm]	3 piece casing [mm]
2.5	6	10	16	20	25			
x						219.1 - 1219.2 (2 pc casing on order)	1219.2 - 3048.0	> 3048.0
	x					508.0 - 914.4 (2 pc casing on order)	219.1 - 508.0	> 3048.0
		x				508.0 (2 pc casing on order)	914.4 - 3048.0	> 3048.0
			x	x	x		219.1 - 3048.0	
							219.1 - 2540.0	

⇒ pressure rating definition, see above

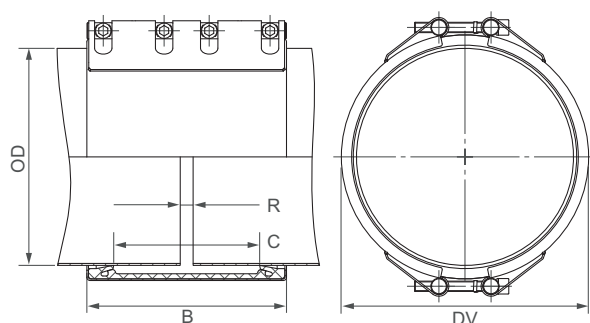
Typing errors may occur. Technical details are subject to change.



Components / Materials	W1	W2	W4	W5
Casing	S355MC, hot-dip galvanised			AISI 316 L or similar
Bolts	AISI 4135			A4 - 80
Bars	AISI 12L14, galvanised			AISI 316 L or similar
Strip insert	AISI 316 L or similar / HDPE			AISI 316 L or similar / HDPE

Sealing sleeve EPDM
Temp.: -20°C up to +100°C
Medium: all qualities of water, waste water, air, solids and chemical products

Sealing sleeve NBR
Temp.: -20°C up to +80°C
Medium: water, gas, oil, fuel and other hydrocarbons



B ⇒ 310 up to 311 mm
DV ⇒ OD + 38 mm
C ⇒ 227 mm

R with strip insert ⇒ 120 mm
R without strip insert ⇒ 20 mm

	W1 or W5
	only in W5 available



OD [mm]	Clamping range [mm]	PN					
		2.5	6	10	16	20	25
323.9	320 - 327						
355.6	352 - 370						
406.4	402 - 410						
457.2	453 - 461						
508.0	504 - 512						
558.8	555 - 563						
609.6	605 - 614						
655.0	651 - 659						
711.2	707 - 715						
762.0	758 - 766						
812.8	809 - 817						
914.4	910 - 918						
1016.0	1011 - 1021						
1117.6	1112 - 1123						
1219.2	1214 - 1224						
1320.8	1316 - 1325						
1422.4	1417 - 1427						
1524.0	1519 - 1529						
1600.0	1595 - 1605						
1625.0	1620 - 1630						
1727.2	1722 - 1732						
1828.8	1824 - 1834						
1930.4	1925 - 1935						
2032.0	2026 - 2038						
2268.0	2262 - 2274						
2540.0	2534 - 2546						
2794.0	1788 - 2800						
3048.0	3042 - 3054						
3302.0	3296 - 3308						
3556.0	3550 - 3562						
3810.0	3804 - 3816						
4064.0	4058 - 4070						

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 323.9 TO 4064.0 mm ARE AVAILABLE

Remarks:

- Follow fitting instructions
- PN = working pressure considering the application loads
Test pressure = PN x 1.5 (for example industry, water supply etc.)
- Strip inserts included
- Additional sealing sleeves, pressure and temperature ranges on request

Versions:

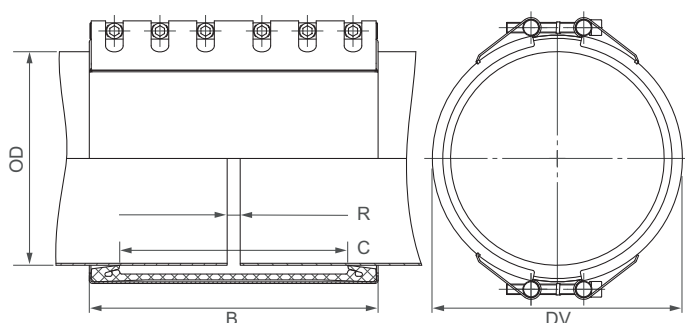
PN						2 piece casing [mm]	3 piece casing [mm]
2.5	6	10	16	20	25		
x	x	x	x	x	x	≤ 3048.0	> 3048.0

⇒ pressure rating definition, see above

Components / Materials	W1	W2	W4	W5
Casing	S355MC, hot-dip galvanised			AISI 316 L or similar
Bolts	AISI 4135			A4 - 80
Bars	AISI 12L14, galvanised			AISI 316 L or similar
Strip insert	AISI 301 / HDPE			AISI 316 L or similar / HDPE

Sealing sleeve
EPDM

Temp.: -20°C up to +100°C
 Medium: all qualities of water, waste water, air, solids and chemical products



B ⇒ 443 up to 444 mm
 DV ⇒ OD + 48 mm
 C ⇒ 350 mm
 R with strip insert ⇒ 200 mm
 R without strip insert ⇒ 20 mm

	W1 or W5
	only in W5 available



OD [mm]	Clamping range [mm]	PN					
		2.5	6	10	16	20	25
323.9	320 - 327						
355.6	352 - 359						
406.4	403 - 409						
457.2	454 - 460						
508.0	505 - 512						
558.8	555 - 562						
609.6	606 - 613						
655.0	652 - 658						
711.2	707 - 715						
762.0	758 - 766						
812.8	809 - 817						
914.4	910 - 918						
1016.0	1012 - 1020						
1117.6	1113 - 1122						
1219.2	1215 - 1224						
1320.8	1316 - 1325						
1422.4	1418 - 1427						
1524.0	1519 - 1529						
1600.0	1595 - 1605						
1625.0	1621 - 1631						
1727.2	1722 - 1732						
1828.8	1824 - 1834						
1930.4	1925 - 1935						
2032.0	2027 - 2037						
2268.0	2263 - 2273						
2540.0	2535 - 2545						
2794.0	2798 - 2799						
3048.0	3043 - 3053						
3302.0	3296 - 3308						
3556.0	3548 - 3562						
3810.0	3804 - 3816						
4064.0	4058 - 4070						

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 323.9 TO 4064.0 mm ARE AVAILABLE

Remarks:

- Follow fitting instructions
- PN = working pressure considering the application loads
Test pressure = PN x 1.5 (for example industry, water supply etc.)
- Strip inserts included
- Additional sealing sleeves, pressure and temperature ranges on request

Versions:

PN						2 piece casing [mm]	3 piece casing [mm]
2.5	6	10	16	20	25		
x	x	x	x	x	x	≤3048.0	>3048.0

⇒ pressure rating definition, see above