

# FIRE RESISTANT & SAFE

## STRAUB-FIRE-FENCE

The original STRAUB fire protection system for applications where fire protection is required.



- Outside diameter: 26.9 up to 457.2 mm
- Temperature: -30°C up to +180°C
- Sealing sleeve: EPDM, NBR, FPM/FKM

With ISO 19921 and ISO 19922, the STRAUB-FIRE-FENCE types meet the highest global standardised requirements for fire and temperature tests.

STRAUB FIRE-FENCE is the optimum solution for fire extinguishing equipment and for many different systems with increased fire protection requirements such as in civil engineering (tunnels), for shipyards for seagoing vessels with various requirements and other applications.

The STRAUB-FIRE-FENCE system is based on the standard types of the STRAUB-GRIP and STRAUB-FLEX series. An intumescent plastic is also firmly bonded to the outside of the casing. In the event of fire, this swells and protectively encloses the pipe coupling - and retains the complete functional capability in doing so.



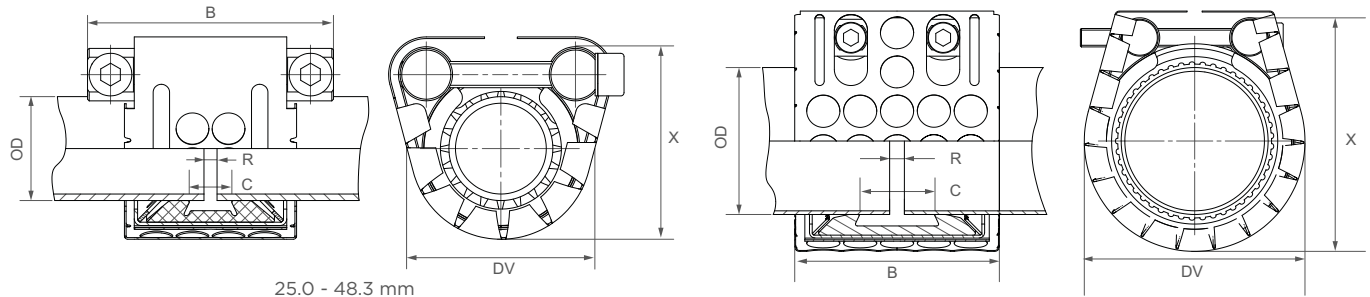
Thus all advantages of the STRAUB pipe couplings are combined with fire protection and give the user a simple, space-saving, state-of-the-art pipe connection.



Already installed STRAUB couplings can be easily and quickly converted to the STRAUB-FIRE-FENCE variant using the separately available retrofit kit; available for the STRAUB-GRIP, STRAUB-METAL-GRIP and STRAUB-FLEX product groups.

Components / Materials	W1	W2	W4	W5
Casing				AISI 316 L or similar
Bolts				A4 - 80
Bars				AISI 316 L or similar
Anchoring rings				AISI 301
Strip insert (option)				AISI 316 L / PVDF

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



25.0 - 48.3 mm

54.0 - 168.3 mm



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]	Allen head [mm]	Thread M...
25.0	24.5 - 25.5	64	16	46.5 / 75	18	51	58	5	5 - 10	10	6	8
26.9	26.4 - 27.4	58	16	46.5 / 75	18	54	61	5	5 - 10	10	6	8
28.0	27.5 - 28.5	50	16	46.5 / 75	18	55	62	5	5 - 10	10	6	8
30.0	29.5 - 30.5	42	16	46.5 / 75	18	57	65	5	5 - 10	10	6	8
33.7	33.2 - 34.2	39	16	46.5 / 75	18	61	70	5	5 - 10	10	6	8
35.0	34.5 - 35.5	37	16	46.5 / 75	18	62	71	5	5 - 10	12	6	8
38.0	37.5 - 38.5	36	16	46.5 / 75	18	65	74	5	5 - 10	12	6	8
40.0	39.5 - 40.5	35	16	46.5 / 75	18	67	76	5	5 - 10	12	6	8
42.4	41.9 - 42.9	33	16	46.5 / 75	18	70	79	5	5 - 10	12	6	8
44.5	44.0 - 45.0	30	16	46.5 / 75	18	72	81	5	5 - 10	12	6	8
48.3	47.8 - 48.8	28	16	46.5 / 75	18	75	86	5	5 - 10	12	6	8
54.0	53.5 - 54.5	24	16	65	24	81	92	5	5 - 15	15	6	8
57.0	56.4 - 57.6	23	16	65	24	84	95	5	5 - 15	15	6	8
60.3	59.7 - 60.9	23	16	65	24	87	98	5	5 - 15	15	6	8
63.0	62.4 - 63.6	23	16	65	24	90	101	5	5 - 15	15	6	8
66.6	64.9 - 67.3	22	16	65	24	94	105	5	5 - 15	15	6	8
70.0	68.9 - 70.7	22	16	65	24	97	109	5	5 - 15	15	6	8
73.0	72.3 - 73.7	21	16	65	24	100	112	5	5 - 15	15	6	8
76.1	75.3 - 76.9	35	16	100	40	110	127	5 - 10	5 - 25	20	8	10
79.5	78.7 - 80.3	32	16	100	40	113	130	5 - 10	5 - 25	20	8	10
84.0	83.2 - 84.8	29	16	100	40	117	135	5 - 10	5 - 25	20	8	10
88.9	88.0 - 89.8	26	16	100	40	122	139	5 - 10	5 - 25	20	8	10
95.0	94.0 - 96.0	24	16	100	40	127	144	5 - 10	5 - 25	25	8	10
98.0	97.0 - 99.0	24	16	100	40	131	148	5 - 10	5 - 25	25	8	10
100.6	99.6 - 101.6	23	16	100	40	134	151	5 - 10	5 - 25	25	8	10
101.6	100.6 - 102.6	23	16	100	40	135	151	5 - 10	5 - 25	25	8	10
104.0	103.0 - 105.0	23	16	100	40	137	153	5 - 10	5 - 25	25	8	10
104.8	103.8 - 105.8	23	16	100	40	138	155	5 - 10	5 - 25	25	8	10
108.0	106.9 - 109.1	22	16	100	40	142	159	5 - 10	5 - 25	25	8	10
114.3	113.2 - 115.4	22	16	100	40	148	165	5 - 10	5 - 25	25	8	10
118.0	116.9 - 119.1	22	16	100	40	152	171	5 - 10	5 - 25	25	8	10
125.0	123.7 - 126.3	21	16	115	53	162	179	5 - 10	5 - 30	40	10	12
127.0	125.7 - 128.3	21	16	115	53	164	181	5 - 10	5 - 30	40	10	12
129.0	127.7 - 130.3	21	16	115	53	166	183	5 - 10	5 - 30	40	10	12
130.2	128.9 - 131.5	21	16	115	53	167	184	5 - 10	5 - 30	40	10	12
133.0	131.7 - 134.3	21	16	115	53	170	187	5 - 10	5 - 30	40	10	12
139.7	138.3 - 141.1	20	16	115	53	176	194	5 - 10	5 - 30	40	10	12
141.3	139.9 - 142.7	20	16	115	53	178	195	5 - 10	5 - 30	40	10	12
144.0	142.6 - 145.4	20	16	115	53	181	188	5 - 10	5 - 30	50	10	12
154.0	152.5 - 155.5	18	16	115	53	191	208	5 - 10	5 - 30	50	10	12
159.0	157.4 - 160.6	18	16	115	53	196	213	5 - 10	5 - 30	50	10	12
165.0	163.4 - 166.6	16	16	115	53	202	219	5 - 10	5 - 30	50	10	12
168.3	166.6 - 170.0	16	16	115	53	205	222	5 - 10	5 - 30	50	10	12

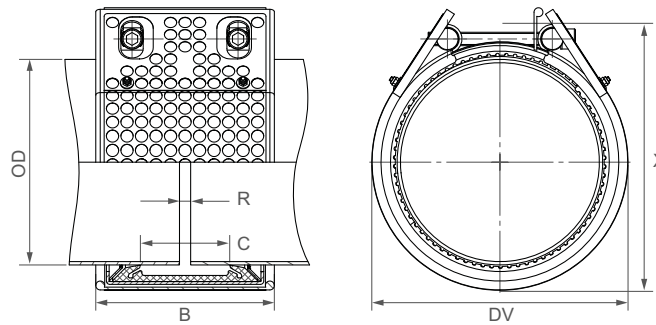
REFER TO MINIMUM WALL THICKNESS (see page 105)

- Follow fitting instructions
- According to DIN 86128

- 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)
- The pressure values are valid on radial rigid carbon steel pipes under static loads
- Strip inserts are optional accessories (see page 87)
- Additional sealing sleeves and temperature ranges on request

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 or similar
Anchoring rings		AISI 301		AISI 301
Strip insert (option)		AISI 316 L or similar / HDPE		AISI 316 L or similar / HDPE

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



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]	Allen head [mm]	Thread M...
180.0	178.0 - 182.0	16	10	158	80	260	238	5 - 10	5 - 35	50	10	12
193.7	192.0 - 195.5	16	10	158	80	275	248	5 - 10	5 - 35	50	10	12
200.0	198.0 - 202.0	15	10	158	80	280	254	5 - 10	5 - 35	50	10	12
204.0	202.0 - 206.0	14	10	158	80	285	258	5 - 10	5 - 35	50	10	12
206.0	204.0 - 208.0	14	5.5	158	80	234	258	5 - 10	5 - 35	50	10	12
219.1	216.9 - 221.3	16	10	142	80	250	274	5 - 10	5 - 30	60	10	12
244.5	242.0 - 247.0	9	5.5	158	80	325	299	5 - 10	5 - 35	50	10	12
250.0	247.5 - 252.5	9	5.5	158	80	330	304	5 - 10	5 - 35	50	10	12
254.0	251.5 - 256.5	9	5.5	158	80	330	308	5 - 10	5 - 35	50	10	12
256.0	253.5 - 258.5	9	5.5	158	80	284	308	5 - 10	5 - 35	50	10	12
267.0	264.5 - 269.5	8	5	158	80	345	321	5 - 10	5 - 35	50	10	12
273.0	270.5 - 275.5	7	4	158	80	350	327	5 - 10	5 - 35	60	10	12
306.0	303.0 - 309.0	6	3	158	80	334	358	5 - 10	5 - 35	60	10	12
323.9	320.5 - 327.0	5	3	158	80	400	378	5 - 10	5 - 35	60	10	12
355.6	352.0 - 359.0	10	2.5	158	67	430	410	5 - 10	5 - 35	90	14	16
406.4	402.5 - 410.5	7	2	158	67	475	460	5 - 10	5 - 35	100	14	16

REFER TO MINIMUM WALL THICKNESS (see page 105)

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)
- The pressure values are valid on radial rigid carbon steel pipes under static loads
- Strip inserts are optional accessories (see page 87)
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