CONNECT METAL PIPES WITH **STRAUB-METAL-GRIP and STRAUB-GRIP**

STRAUB-METAL-GRIP and STRAUB-GRIP pipe couplings are pipe connections with axial restraint for all metal pipes and rigid plastics.

There are countless possible uses on almost all pipe systems due to the universal connection solution. The installation is performed on smooth-ended pipes without any pipe end machining.

The compact design allows pipe routing in very confined spaces.

Unexpected secondary stresses and arising inaccuracies for the pipe routing on-site are accommodated by the couplings due to the flexible design. This enables simple and quick installation that results in noticeable cost savings.

STRAUB-METAL-GRIP

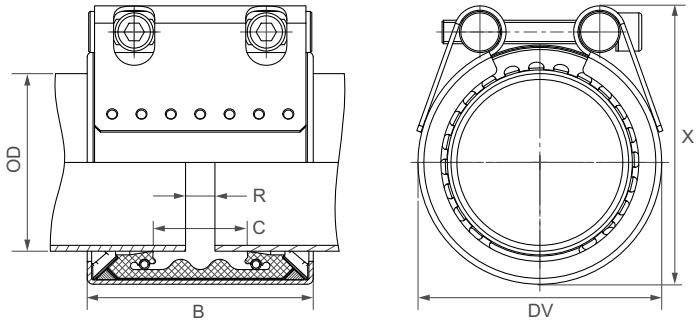
- Outside diameter: 30.0 up to 609.6 mm
- Temperature: -30°C up to +100°C
- Sealing sleeve: EPDM, NBR

STRAUB-GRIP

- Outside diameter: 25.0 up to 711.2 mm
- Temperature: -20°C up to +180°C
- Sealing sleeve: EPDM, NBR, FPM/FKM

Components / Materials	W1	W2	W4	W5
Casing		AISI 316 L	AISI 304	AISI 316 L or similar
Bolts		AISI 4135	A4 - 80	A4 - 80
Bars		AISI 12L14, galvanised	AISI 304	AISI 316 L or similar
Anchoring rings		AISI 301	AISI 301	AISI 301
Strip insert (option)		AISI 316 L or similar / PVDF	AISI 316 L / PVDF	AISI 316 L or similar / PVDF

Sealing sleeve EPDM	Temp.:	-30°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



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...
30.0	29.5 - 30.5	67	16	46/67	18	47	56	5	5	10	6	8
33.7	33.2 - 34.2	62	16	46/67	18	52	63	5	5	10	6	8
38.0	37.5 - 38.5	58	16	61	19	58	73	5	5 - 10	15	6	8
42.4	41.9 - 42.9	53	16	61	20	62	76	5	5 - 10	15	6	8
44.5	44.0 - 45.0	48	16	61	20	64	80	5	5 - 10	15	6	8
48.3	47.8 - 48.8	44	16	61	20	68	83	5	5 - 10	15	6	8
54.0	53.5 - 54.5	39	16	77	38	74	89	5	5 - 15	15	6	8
57.0	56.4 - 57.6	37	16	77	32	77	92	5 - 10	5 - 25	15	6	8
60.3	59.7 - 60.9	37	16	77	32	82	95	5 - 10	5 - 25	15	6	8
63.5	62.9 - 64.1	37	16	77	32	84	98	5 - 10	5 - 25	15	6	8
73.0	72.2 - 73.8	56	16	94	39	95	117	5 - 10	5 - 25	35	8	10
76.1	75.3 - 76.9	56	16	94	39	100	117	5 - 10	5 - 25	35	8	10
84.0	83.2 - 84.8	45	16	94	39	112	123	5 - 10	5 - 25	35	8	10
88.9	88.0 - 89.8	41	16	94	39	117	123	5 - 10	5 - 25	35	8	10
104.0	103.0 - 105.0	37	16	94	39	133	151	5 - 10	5 - 25	35	8	10
108.0	106.9 - 109.1	35	16	94	39	133	151	5 - 10	5 - 25	35	8	10
114.3	113.2 - 115.4	34	16	94	39	139	157	5 - 10	5 - 25	35	8	10
129.0	127.7 - 130.3	33	16	108	43	160	182	5 - 15	5 - 25	60	10	12
133.0	131.7 - 134.3	33	16	108	43	160	182	5 - 15	5 - 25	60	10	12
139.7	138.3 - 141.1	32	16	109	43	168	191	5 - 15	5 - 25	60	10	12
154.0	152.5 - 155.5	32	16	109	51	186	210	5 - 15	5 - 25	60	10	12
159.0	157.4 - 160.6	31	16	109	43	187	210	5 - 15	5 - 25	60	10	12
168.3	166.6 - 170.0	29	16	109	43	200	220	5 - 15	5 - 25	60	10	12
219.1	216.9 - 221.3	26	16	150	60	259	288	5 - 15	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)
- Additional sealing sleeves and temperature ranges on request

Components / Materials	W1	W2	W4	W5
Casing	AISI A738, hot-dip galvanised			
Bolts	AISI 4135			
Bars	AISI 12L14, galvanised			
Anchoring rings	AISI 301			
Strip insert (option)	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
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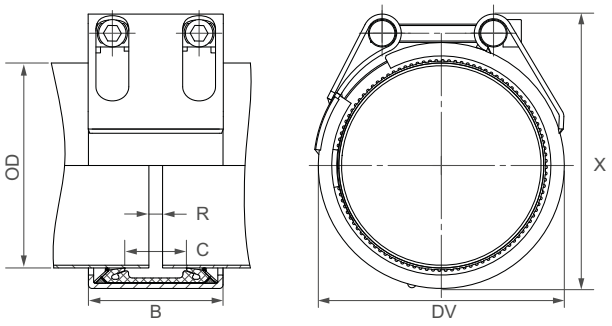

OD [mm]	Clamping range [mm]	PN [bar]	PN [bar]	B [mm]	C [mm]	DV [mm]	X [mm]	R without strip insert [mm]	R with strip insert [mm]	Torque rate [Nm]	Allen head [mm]	Thread M...
180.0	178.0 - 182.0	29	16	148	67	225	256	5 - 15	5 - 35	150	17	20
193.7	192.0 - 195.5	29	16	148	67	239	270	5 - 15	5 - 35	150	17	20
200.0	198.0 - 202.0	28	15	148	67	245	276	5 - 15	5 - 35	180	17	20
206.0	204.0 - 208.0	28	15	148	67	251	282	5 - 15	5 - 35	180	17	20
244.5	242.0 - 247.0	27	14	148	67	290	330	5 - 15	5 - 35	180	17	20
267.0	264.5 - 269.5	24	12	148	67	312	352	5 - 15	5 - 35	180	17	20
273.0	270.5 - 275.5	21	12	148	67	318	359	5 - 15	5 - 35	180	17	20
323.9	320.5 - 327.0	18	10	148	67	369	411	5 - 15	5 - 35	230	17	20
355.6	352.0 - 359.0	17	8	148	67	401	444	5 - 15	5 - 35	230	17	20
406.4	402.5 - 410.5	14	8	148	67	451	494	5 - 15	5 - 35	230	17	20
457.2	452.5 - 462.0	8	6	148	67	502	546	5 - 15	5 - 35	250	17	20
508.0	503.0 - 513.0	6	5	148	67	553	598	5 - 15	5 - 35	250	17	20
558.8	554.0 - 564.0	6	4.5	148	67	604	649	5 - 15	5 - 35	300	17	20
609.6	604.5 - 614.5	5	4	148	67	655	701	5 - 15	5 - 35	300	17	20

CONTINUOUSLY VARIABLE INTERMEDIATE SIZES FROM 180.0 TO 609.6 mm ARE AVAILABLE
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)
- Additional sealing sleeves and temperature ranges on request