STENFLEX®

GRV/1-D15

Rubber-metal pipe connector ▪ Type GRV

Vibration and noise damper DN 20 – DN 200

TÜV type approved
for use in hot water heating systems
up to +100°C and max. 10 bar g
(TÜV Bayern, test no. 0101141)

Structure type GRV

- ☐ Rubber-metal pipe connector consisting of a cylindrical rubber body with fully embedded steel flanges
- ☐ Steel flanges with threaded holes
- ☐ Absolute metallic separation of the steel flanges
- ☐ From DN 50 elastic embedded spacing control bolts

Rubber body PN 6 / PN 10

- ☐ Cylindrical rubber body made of elastic synthetic rubber
- ☐ Smooth rubber core therefore no contact between medium and flange
- ☐ Self-sealing rubber raised face
- ☐ Electrical impedance 10^3 to 10^6 Ohm (DIN IEC 93, DIN 53 482)

Rubber grade*	Possible uses
CR	**Hot water, cold water, acids, lyes**

*Check or inquire about the resistance of the rubber grade to temperature and medium.

DN Pressure rate	DN 20-200 PN 6	DN 20-200 PN 10	Temperature
Max. perm. operating pressure	**6 bar**	**10 bar**	**-30 °C to +100 °C** **to +110 °C for brief periods***
Bursting pressure	≥ **48 bar**	≥ **48 bar**	
Vacuum	**0.05 bar abs.**		

* For temps. exceeding +100 ° C, the manufacturer's approval must be obtained for the corresponding operating conditions.

Flanges / screw lengths

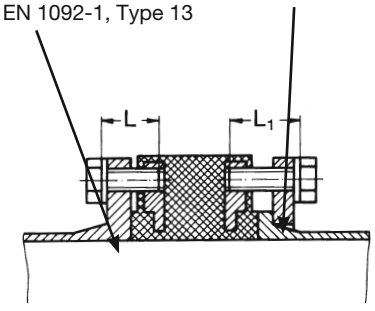
Do not choose the screws to be too long; overlong screws damage the rubber body.

Please note the recommended screw length L and L_1 (see table).

Detailled installation instructions indicating the necessary torques are included with every pipe connector.

Flange
EN 1092-1, Type 11
EN 1092-1, Type 13

Flange
EN 1092-1, Type 04



Recommended screw lengths L and L_1

Applications

- ■ **for interrupting unwanted sound and noise transmission**
  - ■ **in pipeline systems**
  - ■ **in heating systems**
  - ■ **at pumps**
  - ■ **at control fittings**
  - ■ **at machines**
  - ■ **at fittings and appliances**
- ■ **in domestic industry**
  - ■ **in residential properties**
  - ■ **in hospitals**
  - ■ **in schools**
  - ■ **in public buildings**
- ■ **in industrial applications**

Certificates

- ☐ Suitability approval for warm water and heating systems

STENFLEX® type GRV at pumps in a heating system

Dimensions PN 6 standard program

DN	BL* mm	ø di inner ø mm	ø C Raised face ø mm	ø D Outer ø mm	G Thread- ø mm	L Threaded length mm	PN Flange connection EN 1092	Screws DIN 933 Thread	Screws DIN 933 L mm	Washer DIN 125	Weight approx. kg
20	76	23	50	94	4 x M 10	14	6	M 10	25	10.5	1.4
25	76	29	60	104	4 x M 10	16	6	M 10	25	10.5	1.9
32	76	38	70	124	4 x M 12	16	6	M 12	30	13.0	2.5
40	76	44	80	134	4 x M 12	16	6	M 12	30	13.0	3.0
50	76	55	88	144	4 x M 12	16	6	M 12	30	13.0	3.1
65	76	71	108	164	4 x M 12	16	6	M 12	30	13.0	3.8
80	76	81	128	194	4 x M 16	18	6	M 16	35	17.0	6.0
100	76	108	148	214	4 x M 16	18	6	M 16	35	17.0	6.3
125	76	133	178	244	8 x M 16	18	6	M 16	35	17.0	7.8
150	76	160	202	270	8 x M 16	18	6	M 16	35	17.0	8.5
200	96	209	258	325	8 x M 16	20	6	M 16	40	17.0	13.2

*The measure BL (length) is approx. 6 mm shorter when fitted.

Dimensions PN 10 standard program

DN	BL* mm	ø di inner ø mm	ø C Raised face ø mm	ø D Outer ø mm	G Thread- ø mm	L Threaded length mm	PN Flange connection EN 1092	Screws DIN 933 Thread	Screws DIN 933 L mm	Screws DIN 933 L_1 mm	Washer DIN 125	Weight approx. kg
20	76	23	60	109	4 x M 12	14	10	M 12	30	40	13	2.0
25	76	29	70	119	4 x M 12	16	10	M 12	30	45	13	2.5
32	76	38	80	144	4 x M 16	16	10	M 16	35	45	17	3.8
40	76	44	90	154	4 x M 16	16	10	M 16	35	45	17	4.3
50	76	55	100	169	4 x M 16	16	10	M 16	35	50	17	4.7
65	76	71	115	189	4 x M 16	16	10	M 16	35	50	17	5.8
80	76	81	130	204	8 x M 16	18	10	M 16	40	55	17	6.8
100	76	108	158	224	8 x M 16	18	10	M 16	40	55	17	7.2
125	76	133	180	255	8 x M 16	18	10	M 16	40	55	17	9.0
150	76	160	210	291	8 x M 20	18	10	M 20	45	60	21	11.0
200	96	209	265	345	8 x M 20	20	10	M 20	45	65	21	16.8

*The measure BL (length) is approx. 6 mm shorter when fitted.

Note

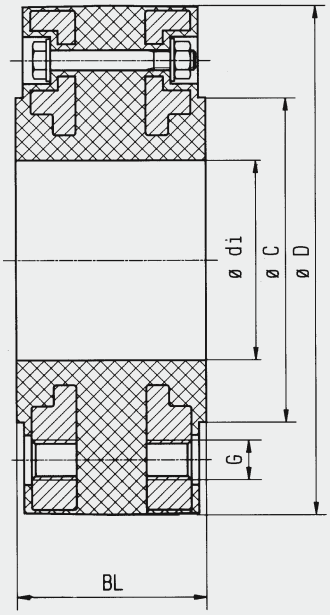
Do not use to absorb tensile force, expansion, tension; depending on temperature, STENFLEX® expansion joints made of rubber or steel should be used for this purpose.

Elastic elements in pipelines separate the rigid system and release the reaction force, produced by pipeline inner pressure. For the rubber-metal pipe connectors to work safely and reliably, it is presumed that the pipes are routed properly and the fixed points (HFP) are adequately rated to the reaction force.

Chemicals used for water treatment (particularly in heating systems and coolant systems) can corrode the materials of pipe connector. According to VDI Directive 2035, DIN 4809 part 1 and VGB R 455P, the manufacturer of the chemicals must state that the materials used in the pipe connector will not be damaged by the chemicals.

Please comply with the general technical instructions. Subject to technical alterations and deviations resulting from the manufacturing process.

Versions



Type GRV
Rubber-metal pipe connector with elastic embedded spacing control bolt