

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)

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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 10³ to 10⁶ 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	DN 20-200	DN 20-200	Temperature
Pressure rate	PN 6	PN 10	
Max. perm. operating pressure	6 bar	10 bar	-30 °C to +100 °C
Bursting pressure	≥ 48 bar	≥ 48 bar	to +110 °C for brief periods*
Vacuum	0.05 bar abs.		

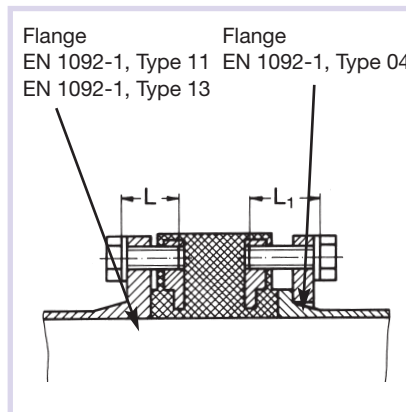
* For temps. exceeding +100 °C, the manufacturer's approval must be obtained for the corresponding operating conditions.

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 L₁ (see table).

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



Recommended screw lengths L and L₁

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		Washer DIN 125	Weight approx. kg
								Thread	L mm		
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			Washer DIN 125	Weight approx. kg
								Thread	L mm	L ₁ mm		
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

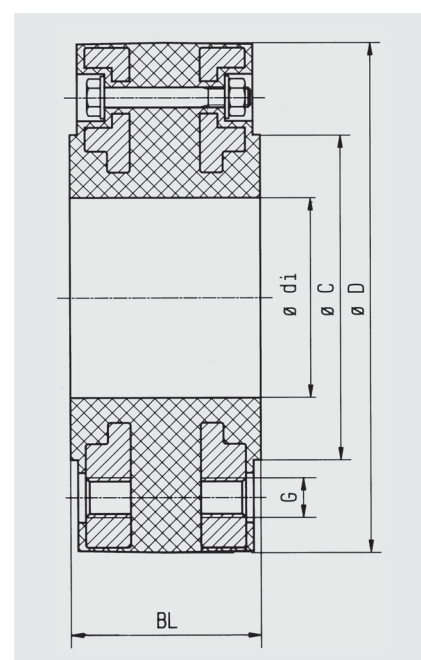
Do not use to absorb tensile force, expansion, tension; depending on temperature, STENFLEX® expansion joints made of rubber or steel should be used for this purpose.

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