

RUBBER-METAL PIPE CONNECTOR TYPE GRV

VIBRATION AND NOISE DAMPER DN 20 – DN 200



STRUCTURE TYPE GRV / RUBBER BODY PN 6, PN 10

- 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
- 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 bis 10^6 Ohm (DIN IEC 93, VDE 0303-30)

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

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

| Technical design | | |
|-------------------------------|--|--------|
| DN | DN 20 – 200 | |
| Pressure rate | PN 6 | PN 10 |
| Max. perm. operating pressure | 6 bar | 10 bar |
| Max. perm. Temperature | -30 °C bis +100 °C / to +110 °C for brief periods* | |
| Bursting pressure | ≥ 48 bar | |
| Vacuum operation | ≥ 0,05 bar abs. | |

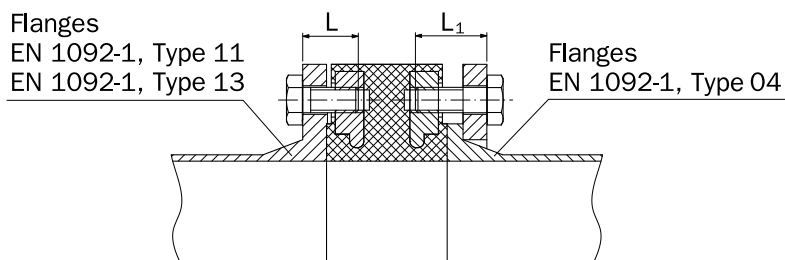
* For temps. exceeding +100 °C, the manufacturer's approval must be obtained for the corresponding operating conditions..

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.



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.

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

DIMENSIONS STANDARD PROGRAM PN 6

| DN | BL* | Ø d _i 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 | 3.1 |
| 50 | 76 | 55 | 88 | 144 | 4 x M 12 | 16 | 6 | M 12 | 30 | 13,0 | 3.3 |
| 65 | 76 | 71 | 108 | 164 | 4 x M 12 | 16 | 6 | M 12 | 30 | 13,0 | 4.0 |
| 80 | 76 | 81 | 128 | 194 | 4 x M 16 | 18 | 6 | M 16 | 35 | 17,0 | 6.3 |
| 100 | 76 | 108 | 148 | 214 | 4 x M 16 | 18 | 6 | M 16 | 35 | 17,0 | 6.6 |
| 125 | 76 | 133 | 178 | 244 | 8 x M 16 | 18 | 6 | M 16 | 35 | 17,0 | 8.2 |
| 150 | 76 | 160 | 202 | 270 | 8 x M 16 | 18 | 6 | M 16 | 35 | 17,0 | 8.9 |
| 200 | 96 | 209 | 258 | 325 | 8 x M 16 | 20 | 6 | M 16 | 40 | 17,0 | 13.9 |

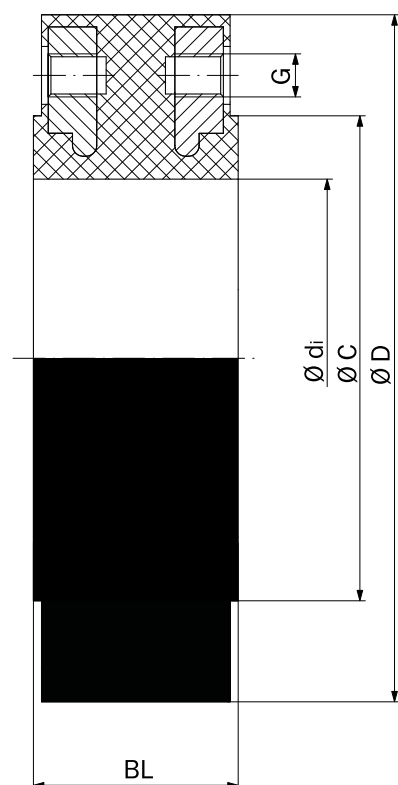
*The measure BL (length) is approx. 6 mm shorter when fitted.

DIMENSIONS STANDARD PROGRAM PN 10

| DN | BL* | Ø d _i 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 | 2.1 |
| 25 | 76 | 29 | 70 | 119 | 4 x M 12 | 16 | 10 | M 12 | 30 | 45 | 13 | 2.7 |
| 32 | 76 | 38 | 80 | 144 | 4 x M 16 | 16 | 10 | M 16 | 35 | 45 | 17 | 3.9 |
| 40 | 76 | 44 | 90 | 154 | 4 x M 16 | 16 | 10 | M 16 | 35 | 45 | 17 | 4.4 |
| 50 | 76 | 55 | 100 | 169 | 4 x M 16 | 16 | 10 | M 16 | 35 | 50 | 17 | 5.0 |
| 65 | 76 | 71 | 115 | 189 | 4 x M 16 | 16 | 10 | M 16 | 35 | 50 | 17 | 6.0 |
| 80 | 76 | 81 | 130 | 204 | 8 x M 16 | 18 | 10 | M 16 | 40 | 55 | 17 | 7.1 |
| 100 | 76 | 108 | 158 | 224 | 8 x M 16 | 18 | 10 | M 16 | 40 | 55 | 17 | 7.6 |
| 125 | 76 | 133 | 180 | 255 | 8 x M 16 | 18 | 10 | M 16 | 40 | 55 | 17 | 9.5 |
| 150 | 76 | 160 | 210 | 291 | 8 x M 20 | 18 | 10 | M 20 | 45 | 60 | 21 | 11.6 |
| 200 | 96 | 209 | 265 | 345 | 8 x M 20 | 20 | 10 | M 20 | 45 | 65 | 21 | 17.7 |

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

VERSIONS



Type GRV

Rubber-metal pipe connector
with elastic embedded spacing
control bolt