

STENFLEX®



G-D15

Rubber expansion joint - Type G

Conical lateral expansion joint DN 25 – DN 250



Type G

Structure type G

Lateral expansion joint consisting of a conical rubber bellows without convolution and rotatable flanges.

Rubber bellows PN 6 / PN 10 / PN 16

- Conical bellows without convolution in various rubber grades
- Synthetic fibre reinforcement
- Wire-reinforced self-sealing rubber rim
- Electrical impedance 10^3 to 10^6 Ohm (DIN IEC 93, VDE 0303-30)

Rubber grade*	Colour code	Possible uses
EPDM	orange	Cooling, hot, waste, brackish water, acids, lyes
NBR	red	Oil

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

Technical design	DN 125:80 - DN 250:200 PN 10	DN 40:25 - DN 100:80 PN 16
DN		
Pressure rate		
Max. perm. operating pressure	10 bar*	16 bar*
Max. perm. temperature	+100 °C	+100 °C
Bursting pressure	≥ 30 bar	≥ 48 bar
Vacuum operation	not suitable	not suitable

Max. operating pressure to be set 30 % lower for shock loads.

*Please consider a decrease of pressure due to temperature (see technical annex).

Flanges

Version

- Special machined groove for rubber rim
- Flange drilling for through bolts

Dimensions

Standard: DN 25 - DN 150 (PN 16)
 DN 200 - DN 250 (PN 10)
 according to EN 1092

Others: DIN EN, ANSI, BS etc.

Connection dimensions see technical annex

Materials

Standard: 1.0038 (S235JR)
 Others: stainless steel, etc.

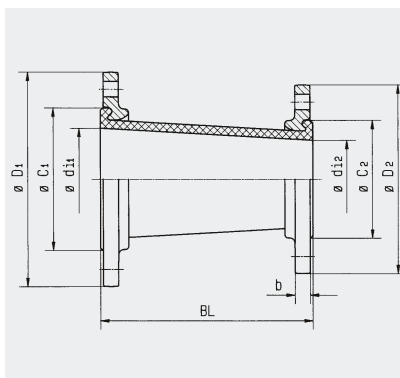
Corrosion protection

Standard: electrogalvanized
 Others: hot-dip galvanized, special varnish, special coating, etc.

Applications

- for compensating lateral movement
- to improve flowing of media (smooth passage)
- for deposit-free passage of solid matter, e.g. at pumps for gypsum suspension
- for muffling vibration and noise
- as conical, elastic reducing adapter at
 - pumps
 - pipelines
 - motors
 - ventilating fans/blowers
 - cooling water lines
 - cement industry
 - conveyance technology

Versions



Type G

Conical lateral expansion joint with rotatable flanges

Special versions

Other sizes or lengths on request

Certificates

- CE (DGR 97/23/EC)

Note

Please comply with the general technical instructions regarding reaction force, moving force, fixed point load, installation instructions etc.

Reaction force, moving force and fixed point load have to be calculated as for universal expansion joints (no tie rod restraints available).

Subject to technical alterations and deviations resulting from the manufacturing process.

Dimensions standard program type G

DN	BL	Pressure rate bar	ø d1:ø d2 Bellows inner ø mm	ø C1:ø C2 Raised face ø mm	PN Flange connection EN 1092	ø D1:ø D2 Flange outer ø mm	b Flange thickness mm	Δ lat Lateral movement ±mm	Weight approx. kg
40 : 25	250	16	45 : 30	81 : 51	16/16	150 : 115	16 : 16	30	3.2
40 : 32	250	16	45 : 39	81 : 72	16/16	150 : 140	16 : 16	30	3.7
50 : 32	250	16	56 : 39	95 : 72	16/16	165 : 140	16 : 16	30	4.1
50 : 40	250	16	56 : 45	95 : 81	16/16	165 : 150	16 : 16	30	4.4
65 : 40	250	16	72 : 45	115 : 81	16/16	185 : 150	18 : 16	30	5.2
65 : 50	250	16	72 : 56	115 : 95	16/16	185 : 165	18 : 16	30	5.6
80 : 50	250	16	84 : 56	127 : 95	16/16	200 : 165	20 : 16	30	6.3
80 : 65	250	16	84 : 72	127 : 115	16/16	200 : 185	20 : 18	30	7.1
100 : 65	250	16	109 : 72	151 : 115	16/16	220 : 185	20 : 18	30	7.5
100 : 80	250	16	109 : 84	151 : 127	16/16	220 : 200	20 : 20	25	8.2
125 : 80	250	10	133 : 84	178 : 127	16/16	250 : 200	22 : 20	25	9.7
125 : 100	250	10	133 : 109	178 : 151	16/16	250 : 220	22 : 20	25	10.0
150 : 80	250	10	161 : 84	206 : 127	16/16	285 : 200	22 : 20	25	10.9
150 : 100	250	10	161 : 109	206 : 151	16/16	285 : 220	22 : 20	25	11.4
150 : 125	250	10	161 : 133	206 : 178	16/16	285 : 250	22 : 22	25	12.8
200 : 125	250	10	209 : 133	260 : 178	10/16	340 : 250	25 : 22	25	16.0
200 : 150	250	10	209 : 161	260 : 206	10/16	340 : 285	25 : 22	25	17.2
250 : 150	250	10	262 : 161	313 : 206	10/16	395 : 285	25 : 22	25	19.3
250 : 200	250	10	262 : 209	313 : 260	10/10	395 : 340	25 : 25	25	22.4