STENFLEX®

RUBBER EXPANSION JOINT TYPE G
CONICAL
LATERAL EXPANSION JOINT
DN 25 – DN 250

STRUCTURE TYPE G / RUBBER BELLOWS PN 6, 10, 16

- Lateral expansion joint consisting of a conical rubber bellows without convolution and rotable flanges
- 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*	EPDM	NBR
Colour code	orange	red
Possible uses	Cooling, hot, waste, brackish water, acids, lyes	hydrocarbon containing liquids

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

Technical design		
DN	DN 125:80 – DN 250:200	DN 40:25 – DN 100:80
Pressure rate	PN 10	PN 16
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	

Max. operating pressure to be set 30 % lower for shock loads.
*Please consider a decrease of pressure due to temperature (see technical annex).

FLANGES / VERSIONS

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

	Standard	**Others**
Dimensions	EN 1092	ANSI, BS etc. Connection dimensions see technical annex page 213 – 215
Materials	1.0038 (S235JR)	stainless steel etc.
Corrosion protection	electrogalvanized	hot-dip galvanized, special varnish and coating, etc.

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.

APPLICATIONS

- for compensating lateral movement
- to improve the flow 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 transition piece at
  - pumps
  - pipelines
  - engines
  - ventilating fans/blowers
  - cooling water lines
- cement industry
- conveyance technology

SPECIAL VERSIONS

Other sizes or lengths on request

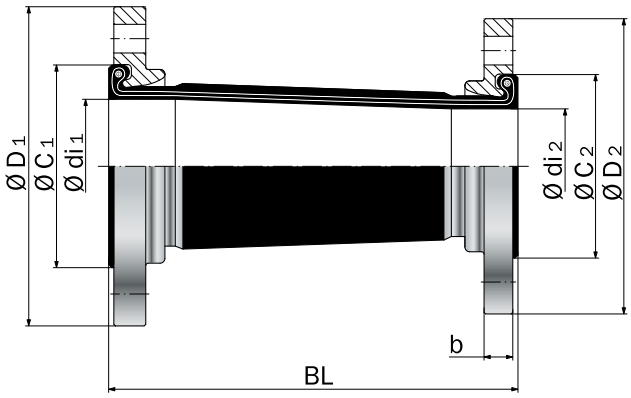
CERTIFICATES

- CE (PED 2014/68/EU)

DIMENSIONS STANDARD PROGRAM

DN	BL mm	Pressure rate bar	Ø di_1:Ø di_2 Bellows inner Ø mm	Ø C_1:Ø C_2 Raised face Ø mm	PN Flange connection EN 1902	Ø D_1:Ø D_2 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

Please contact us for further flange dimensions.



Type G

Conical lateral expansion joint with rotable flanges