

# Teflon-rubber joint expansioners DN50-DN300

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### Description:

Expansion joints made in rubber-teflon technology are used to damp vibrations and compensate the displacements resulting from stress and thermal elongation of pipelines. PTFE due to good chemical resistance is mainly used for aggressive media at working temperatures in range from -20 °C to 120 °C. compensators with PTFE lining is characterized by a high level of safety, high chemical resistance, high pressure resistance, high vacuum resistance, high flexibility, low permeability, high compensation, long service life.

### CERTIFICATES



### Motion compensation



### Technical Data:

- range of diameter: DN25-DN300
- working pressure: 0,6 MPa, 1,0 MPa, 1,6 MPa
- max. working temperature od -30°C do +130°C
- flange openings: PN6 PN10 PN16

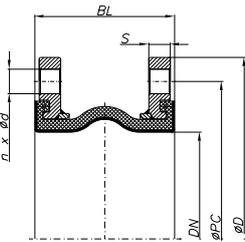
### Construction:

#### bellow:

- internal layer : PTFE
- external : rubber EPDM, HTEPDM, NBR, SBR, CR, NR or any others kinds of rubber according to requirements (Hypalon, Viton , Butyl)

#### flange:

- carbon steel with anti-corrosion coating (hot dip galvanization)
- stainless steel, 1.4031
- acid resistant steel 1.4401, 1.4404, 1.4571



- BL – bellows length
- φA – bellows diameter
- φD – external diameter of the flange
- φPC – pitch diameter of openings
- φd – screw holes diameter
- n – number of the holes in a flange
- s – flange thickness

DN	BL [mm]	Bellow		Flanges PN 6					Motion compensation			
		ØA [mm]	pow. czynna [cm <sup>2</sup> ]	ØD [mm]	PC [mm]	Ød [mm]	n	s [mm]	axial		lateral ± mm	alfa ±°
									-mm	+ mm		
50	130	96	32	165	125	18	4	16	20	20	25	20
65	130	111	53	185	145	18	4	16	20	20	25	20
80	130	122	85	200	160	18	8	18	20	20	25	20
100	130	142	128	220	180	18	8	18	20	20	25	20
125	130	168	187	250	210	18	8	18	20	20	25	20
150	130	192	259	285	240	23	8	20	20	20	25	15
200	130	252	410	340	295	23	8	20	20	20	25	10
250	130	302	596	395	350	23	12	20	20	20	25	10
300	130	354	822	445	400	23	12	20	20	20	25	8

DN	BL [mm]	Bellow		Flanges PN 10					Motion compensation			
		ØA [mm]	Active surface [cm <sup>2</sup> ]	ØD [mm]	PC [mm]	Ød [mm]	n	s [mm]	axial		lateral ±mm	alfa ±
									-mm	+mm		
50	130	96	32	165	125	18	4	16	20	20	25	20
65	130	111	53	185	145	18	8	16	20	20	25	20
80	130	122	85	200	160	18	8	18	20	20	25	20
100	130	142	128	220	180	18	8	18	20	20	25	20
125	130	168	187	250	210	18	8	18	20	20	25	20
150	130	192	259	285	240	22	8	20	20	20	25	15
200	130	252	410	340	295	22	12	20	20	20	25	10
250	130	302	596	405	355	26	12	20	20	20	25	10
300	130	354	822	460	410	26	12	20	20	20	25	8

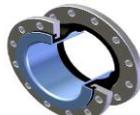
DN	BL [mm]	Bellow		Flanges PN 16					Motion compensation			
		ØA [mm]	Active surface [cm <sup>2</sup> ]	ØD [mm]	PC [mm]	Ød [mm]	n	s [mm]	axial		lateral ± mm	alfa ±
									-mm	+ mm		
50	130	96	32	165	125	18	4	16	20	20	25	20
65	130	111	53	185	145	18	4	16	20	20	25	20
80	130	122	85	200	160	18	8	18	20	20	25	20
100	130	142	128	220	180	18	8	18	20	20	25	20
125	130	168	187	250	210	18	8	18	20	20	25	20
150	130	192	259	285	240	23	8	20	20	20	25	15
200	130	252	410	340	295	23	8	20	20	20	25	10
250	130	302	596	395	350	23	12	20	20	20	25	10
300	130	354	822	445	400	23	12	20	20	20	25	8

\* mentioned above diameters and building lengths are standard values. It is possible to make expansion joints with different dimensions than displayed in the table

### Auxiliary equipment:



Anti- fouling cover



Deflector



Vacuum bellow



Motion limiter