

Rubber Bellow EPSC-2 Highly flexible twin-convoluted rubber bellows DN300-DN3600

EPDM, Perbunan & Butyl Untied

Specification

- Engineered Products & Solutions rubber bellows type EPSC-2
- Universal compensator consisting of a rubber bellows of EPDM, Perbunan or Butyl with press-on retaining flanges
- Outer stabilising ring between the convolutions
- Available in special lengths
- Twin-convoluted highly elastic robust bellows in various rubber grades rated PN2.5, PN6 & PN10
- Full faced self-sealing rubber flanges with drilling for through bolts
- Synthetic fibre reinforcement

Materials

- Liner: EPDM, Perbunan or Butyl
- Reinforcement: Synthetic Fibre
- Flanges: Press-on retaining flanges with stabilising collars PN2.5, PN6 & PN10

Identification

- Colour Code: Colour Code: EPDM-Orange, Perbunan-Red, Butyl-White

Applications

- For compensating large axial, lateral & angular movements
- For reducing thermal & mechanical tension in pipes & their system components, e.g. pumps & condensers
- To compensate for ground and foundation settlement
- For compensating simultaneous movement in cooling water pipes
- To compensate for installation inaccuracies
- Power Station technology
- Process plant engineering

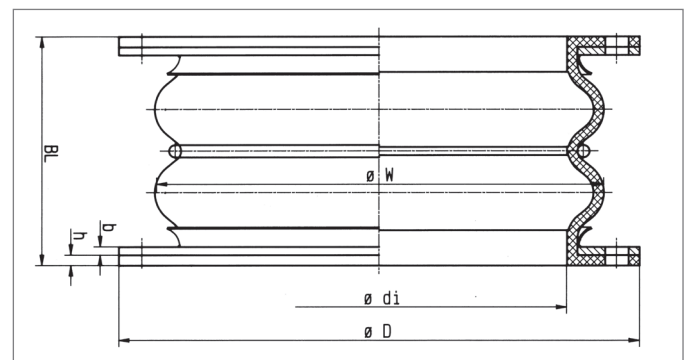
Accessories

- Vacuum support ring
- Internal guide sleeve
- Protective tube

Technical Data

	DN300-3600 PN2.5	DN300-2800 PN6	DN300-2800 PN10
Max Op Pressure	2.5 Bar*	6 Bar*	10 Bar*
Max Op Temperature	+100°C	+100°C	+100°C
Burst Pressure	>10 Bar	>20 Bar	>30 Bar
Vacuum	With vacuum supports on request (horizontal installation only)		

*Maximum operating pressure to be set 30% lower for shock loads



Version Drawing

STENFLEX TYPE C-2

Data Tables

EPSC-2 Standard Program

		Bellows			Steel Flange				
Size	Pressure Rating	∅ diBellows inner ∅	∅ W Convoluted ∅	h Rubber Flange	∅ D Flange outer ∅	∅ D Flange outer	b Flange	BL	Weight
DN mm	Bar	Tolerance +/-1% mm	Unpressurised mm	Thickness mm	(PN6 EN1092) mm	(PN10 EN1092) mm	Thickness mm	mm	Approx kg
300	2.5/4/6/10	300	410	15	440	445	20	400	45
350	2.5/4/6/10	350	460	15	490	505	20	400	49
400	2.5/4/6/10	400	510	15	540	565	20	400	52
450	2.5/4/6/10	450	560	15	595	615	20	400	56
500	2.5/4/6/10	500	610	15	645	670	20	400	62
600	2.5/4/6/10	600	710	15	755	780	20	400	83
700	2.5/4/6/10	700	810	15	860	895	20	400	90
750	2.5/4/6/10	750	860	15	925	965	20	400	103
800	2.5/4/6/10	800	920	20	975	1015	20	400	135
900	2.5/4/6/10	900	1020	20	1075	1115	20	400	140
1000	2.5/4/6/10	1000	1120	20	1175	1230	20	400	165
1100	2.5/4/6/10	1100	1255	20	1290	1345	20	550	230
1200	2.5/4/6/10	1200	1355	20	1405	1455	20	550	265
1300	2.5/4/6/10	1300	1455	20	1520	1565	20	550	285
1400	2.5/4/6/10	1400	1555	20	1630	1675	20	550	320
1500	2.5/4/6/10	1500	1655	20	1730	1795	20	550	370
1600	2.5/4/6/10	1600	1755	20	1830	1915	20	550	400
1700	2.5/4/6/10	1700	1855	20	1940	2015	20	550	435
1800	2.5/4/6/10	1800	1955	20	2045	2115	20	550	440
2000	2.5/4/6/10	2000	2155	20	2265	2325	20	550	520
2100	2.5/4/6	2100	2255	20	2375	2440	20	550	570
2200	2.5/4/6	2200	2355	25	2475	2550	20	550	645
2300	2.5/4/6	2300	2455	25	2590	2650	20	550	680
2400	2.5/4/6	2400	2555	25	2685	2760	20	550	750
2500	2.5/4/6	2500	2655	25	2795	2860	20	550	775
2600	2.5/4/6	2600	2755	25	2905	2960	20	550	800
2800	2.5	2800	2955	25	3115	3180	20	550	835
3000	2.5	3000	3155	25	3315	3405	20	550	900
3200	2.5	3200	3355	25	3525		20	550	940
3400	2.5	3400	3555	25	3735		20	550	990
3600	2.5	3600	3755	25	3975		20	550	1040

Other lengths (BL) & pressure ratings available upon request

Data Tables

EPSC-2 Movement compensation/bellows cross sectional area

Size	Axial Movement	Axial Movement ³	Lateral	Angular	Effective bellows cross
DN	Compression	Elongation	Movement	Movement	Sectional area
mm	mm -	mm +	mm +/-	mm degrees	mm
300	80	60	60	21.8	1015
350	80	60	60	18.9	1300
400	80	60	60	16.7	1615
450	80	60	60	15.0	1970
500	80	60	60	13.5	2360
600	80	60	60	11.3	3240
700	80	60	60	9.8	4250
750	80	60	60	9.1	4820
800	80	60	60	8.6	5410
900	80	60	60	7.6	6700
1000	80	60	60	6.9	8140
1100	120	70	70	7.3	10500
1200	120	70	70	6.7	12300
1300	120	70	70	6.2	14200
1400	120	70	70	5.7	16300
1500	120	70	70	5.4	18500
1600	120	70	70	5.0	20800
1700	120	70	70	4.7	23300
1800	120	70	70	4.5	25900
2000	120	70	70	4.0	31500
2100	120	70	70	3.8	34500
2200	120	70	70	3.7	37700
2300	120	70	70	3.5	41000
2400	120	70	70	3.4	44500
2500	120	70	70	3.2	48000
2600	120	70	70	3.1	51800
2800	120	70	70	2.9	59600
3000	120	70	70	2.7	68000
3200	120	70	70	2.5	77000
3400	120	70	70	2.4	86500
3600	120	70	70	2.3	96600