

JF-850SG Lateral Expansion Joint (Double multiply bellows for medium pressure)

Description

Two multiply stainless steel bellows connected by intermediate tube, welded to tube end and flanges and with internal sleeve and tie-rods. Designed to accommodate lateral movement of pipeline in medium working pressure and temperature.

Feature

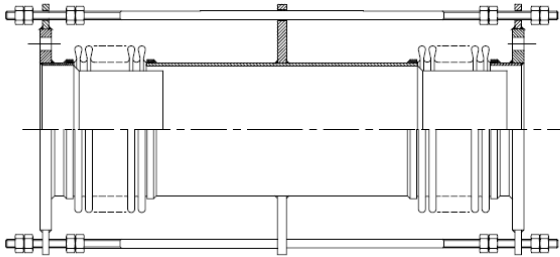
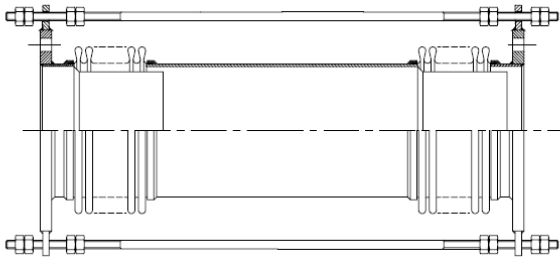
Size Range: 1”(DN25) ~ 24” (DN600)

Design Pressure: 16bar at 200 °C(390 °F)

Life Cycles > 1,000 times

CONSTRUCTION

Item	Part	850SG	Material
1	Bellows	☉	SS304/SS316
2	Internal Sleeve	☉	SS304/SS316
3	Tube End	☉	Carbon Steel/SS304/SS316
4	Seal Ring	☉	SS304/SS316
5	Flange	☉	Carbon Steel/SS304/SS316
6	Bolts	☉	Carbon Steel/SS304
7	Nuts	☉	Carbon Steel/SS304



SPECIFICATION for DIN PN16 Drilling Flanges Fitted

Nominal Bore		Bellows		Lateral ±50mm		Lateral ±75mm		Lateral ±100mm		Lateral ±150mm		Effective Area	Note
		O.D.	CORR.	Total Length	Lateral Spring Rate	Total Length	Lateral Spring Rate	Total Length	Lateral Spring Rate	Total Length	Lateral Spring Rate		
mm	inch	mm	mm	mm	N/mm	mm	N/mm	mm	N/mm	mm	N/mm	cm ²	
25	1	37.5	5	450	0.6	550	0.3	650	0.2	850	0.1	8	
32	1 1/4	47.0	5	500	0.8	650	0.4	800	0.2	1050	0.1	13	
40	1 1/2	57.0	5	550	1.2	700	0.6	850	0.3	1050	0.2	20	
50	2	72.0	5	550	2.1	700	1.0	850	0.6	1050	0.4	32	
65	2 1/2	90.0	5	550	4.8	700	2.3	850	1.4	1150	0.6	49	
80	3	103.0	5	600	5.5	800	2.4	900	1.5	1300	0.7	66	
100	4	136.6	5	650	9.6	850	4.5	1100	2.6	1400	1.3	122	
125	5	162.0	5	750	9.8	950	5.7	1150	3.2	1600	1.4	176	
150	6	196.0	6	750	17.1	950	8.9	1200	5.4	1600	2.4	258	
200	8	246.0	6	800	23.4	1000	12.7	1350	5.9	1700	3.4	415	
250	10	308.0	7	800	49.1	1050	22.9	1350	12.0	1750	6.4	658	
300	12	360.0	7	850	55.1	1100	27.2	1350	16.1	1850	7.6	909	
350	14	416.8	4	850	94.0	1100	45.3	1350	26.5	1850	12.3	1171	
400	16	472.4	5	900	156.5	1150	77.3	1400	45.8	1850	22.9	1516	
450	18	523.2	5	950	184.6	1200	95.5	1450	58.1	1950	28.0	1887	
500	20	580.0	4	1000	201.8	1300	98.7	1600	58.3	2100	30.3	2324	
600	24	681.6	5	1050	254.9	1350	126.7	1650	75.5	2150	39.6	3274	

Other movements, sizes, and pressure expansion joint available on request