

MULTI-PLY EXPANSION JOINTS

Series 1 for Higher Pressure

SERIES 1 - SHORT



- 1- MULTI-PLY T-321 S/S BELLOWS
- 2- 150# A-36 C/S PLATE FLANGES (FF)
- 3- T-304 S/S FLOW LINER (OPTIONAL)
- 4- DESIGN PER EJMA 10TH EDITION
- 5- WELDING PER ASME SECTION IX



- 1- MULTI-PLY T-321 S/S BELLOWS
- 2- 150# A-105 C/S FORGED FLANGES (RF)
- 3- T-304 S/S FLOW LINER (OPTIONAL)
- 4- DESIGN PER EJMA 10TH EDITION
- 5- WELDING PER ASME SECTION IX



- 1- MULTI-PLY T-321 S/S BELLOWS
- 2- STD. WALL A-53 C/S WELD ENDS
- 3- T-304 S/S FLOW LINER (OPTIONAL)
- 4- DESIGN PER EJMA 10TH EDITION
- 5- WELDING PER ASME SECTION IX

BELLOWS			PLATE FLANGES A-36 C/S							FORGED FLANGES A-105 STEEL							BEVELED WELD ENDS A-53 STD.						
SIZE	BELLOWS LIVE LENGTH (IN)	EFFECTIVE AREA (SQ-IN)	OVERALL LENGTH (IN)	WORKING PSIG @ 70°F	AXIAL COMPRESSION ** (IN)	AXIAL SPRING RATE (LB/IN)	LATERAL OFFSET ** (IN)	LATERAL SPRING RATE (LB/IN)	PART NUMBER	OVERALL LENGTH (IN)	WORKING PSIG @ 70°F	AXIAL COMPRESSION ** (IN)	AXIAL SPRING RATE (LB/IN)	LATERAL OFFSET ** (IN)	LATERAL SPRING RATE (LB/IN)	PART NUMBER	OVERALL LENGTH (IN)	WORKING PSIG @ 600°F	AXIAL COMPRESSION ** (IN)	AXIAL SPRING RATE (LB/IN)	LATERAL OFFSET ** (IN)	LATERAL SPRING RATE (LB/IN)	PART NUMBER
2"	3.00	5.78	4.75	175	0.50	1135	0.19	1397	50-20-S1S1	5.25	285	0.50	1135	0.19	1397	50-20-S1S2	11.00	300	0.50	1135	0.19	1397	50-20-S1S3
2-1/2"	3.00	9.51	4.75	175	0.75	624	0.19	1251	50-25-S1S1	5.50	285	0.75	624	0.19	1251	50-25-S1S2	11.00	275	0.75	624	0.19	1251	50-25-S1S3
3"	3.00	12.47	4.75	175	0.50	2520	0.13	6683	50-30-S1S1	5.63	285	0.50	2520	0.13	6683	50-30-S1S2	11.00	350	0.50	2520	0.13	6683	50-30-S1S3
3-1/2"	3.00	16.69	x	x	x	x	x	x	x	5.75	285	0.63	1824	0.13	6478	50-35-S1S2	11.00	350	0.63	1824	0.13	6478	50-35-S1S3
4"	4.50	20.51	6.25	175	1.00	1422	0.25	2751	50-40-S1S1	7.38	285	1.00	1422	0.25	2751	50-40-S1S2	12.50	300	1.00	1422	0.25	2751	50-40-S1S3
5"	4.50	30.63	6.25	175	0.88	2906	0.19	8396	50-50-S1S1	7.63	275	0.88	2906	0.19	8396	50-50-S1S2	12.50	275	0.88	2906	0.19	8396	50-50-S1S3
6"	4.50	41.83	6.25	175	1.00	2665	0.19	10729	50-60-S1S1	7.88	260	1.00	2665	0.19	10729	50-60-S1S2	12.50	260	1.00	2665	0.19	10729	50-60-S1S3
8"	4.50	69.07	6.75	175	1.00	3389	0.13	22073	50-80-S1S1	8.25	260	1.00	3389	0.13	22073	50-80-S1S2	12.50	260	1.00	3389	0.13	22073	50-80-S1S3
10"	6.00	107.9	8.25	175	1.50	2439	0.25	14126	50-100-S1S1	10.13	250	1.50	2439	0.25	14126	50-100-S1S2	14.00	250	1.50	2439	0.25	14126	50-100-S1S3
12"	6.00	148.6	8.25	175	1.50	2926	0.19	23045	50-120-S1S1	10.63	250	1.50	2926	0.19	23045	50-120-S1S2	14.00	250	1.50	2926	0.19	23045	50-120-S1S3
14"	6.00	181.1	8.13	150	1.75	2137	0.25	20560	50-140-S1S1	10.75	200	1.75	2137	0.25	20560	50-140-S1S2	14.00	200	1.75	2137	0.25	20560	50-140-S1S3
16"	6.00	231.7	8.25	150	1.88	2436	0.19	30016	50-160-S1S1	11.25	200	1.88	2436	0.19	30016	50-160-S1S2	14.00	200	1.88	2436	0.19	30016	50-160-S1S3
18"	6.00	289.4	8.38	150	2.00	1950	0.19	29908	50-180-S1S1	11.63	200	2.00	1950	0.19	29908	50-180-S1S2	14.00	200	2.00	1950	0.19	29908	50-180-S1S3
20"	6.00	352.8	8.50	150	1.75	3033	0.13	56766	50-200-S1S1	12.00	200	1.75	3033	0.13	56766	50-200-S1S2	14.00	200	1.75	3033	0.13	56766	50-200-S1S3
22"	6.00	422.6	8.63	150	1.75	3330	0.13	74,644	50-220-S1S1	x	x	x	x	x	x	x	14.00	195	1.75	3330	0.13	74,644	50-220-S1S3
24"	6.00	498.6	8.75	150	1.75	3625	0.13	95882	50-240-S1S1	13.00	195	1.75	3625	0.13	95,882	50-240-S1S2	14.00	195	1.75	3625	0.13	95,882	50-240-S1S3

- ** Movements are non-concurrent-minimum 3000 cycles
- Custom lengths and pressure available on request
 - Stainless flanges available on request
 - Tie rods available on request
 - Flow liners may be required. See EJMA 10 guidelines
 - T-316, T-304, C-276, Inconel 625 and other alloys available