

MULTI-PLY EXPANSION JOINTS

Series 1 for Higher Pressure

SERIES 1 - LONG



- 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"	6.00	5.78	7.75	150	1.00	567	0.75	175	50-20-S1L1	8.25	150	1.00	567	0.75	175	50-20-S1L2	14.00	150	1.00	567	0.75	175	50-20-S1L3
2-1/2"	6.00	9.51	7.75	140	1.38	562	0.75	284	50-25-S1L1	8.50	140	1.38	562	0.75	284	50-25-S1L2	14.00	140	1.38	562	0.75	284	50-25-S1L3
3"	6.00	12.47	7.75	175	1.13	1260	0.50	835	50-30-S1L1	8.63	285	1.13	1260	0.50	835	50-30-S1L2	14.00	300	1.13	1260	0.50	835	50-30-S1L3
3-1/2"	6.00	16.69	x	x	x	x	x	x	x	8.75	250	1.38	983	0.50	873	50-35-S1L2	14.00	250	1.38	983	0.50	873	50-35-S1L3
4"	9.00	20.51	10.75	120	2.00	711	1.25	344	50-40-S1L1	11.88	120	2.00	711	1.25	344	50-40-S1L2	17.00	120	2.00	711	1.25	344	50-40-S1L3
5"	9.00	30.63	10.75	175	1.75	1453	0.75	1049	50-50-S1L1	12.13	200	1.75	1453	0.75	1049	50-50-S1L2	17.00	200	1.75	1453	0.75	1049	50-50-S1L3
6"	9.00	41.83	10.75	175	2.00	1332	0.75	1341	50-60-S1L1	12.38	225	2.00	1332	0.75	1341	50-60-S1L2	17.00	225	2.00	1332	0.75	1341	50-60-S1L3
8"	9.00	69.07	11.25	175	2.00	1694	0.63	2759	50-80-S1L1	12.75	240	2.00	1694	0.63	2759	50-80-S1L2	17.00	240	2.00	1694	0.63	2759	50-80-S1L3
10"	12.00	107.9	14.25	150	3.38	1165	1.00	1681	50-100-S1L1	13.12	150	3.38	1165	1.00	1681	50-100-S1L2	20.00	150	3.38	1165	1.00	1681	50-100-S1L3
12"	12.00	148.6	14.25	160	3.25	1399	0.88	2761	50-120-S1L1	13.63	160	3.25	1399	0.88	2761	50-120-S1L2	20.00	160	3.25	1399	0.88	2761	50-120-S1L3
14"	12.00	181.1	14.12	140	3.50	1069	1.00	2570	50-140-S1L1	13.75	140	3.50	1069	1.00	2570	50-140-S1L2	20.00	140	3.50	1069	1.00	2570	50-140-S1L3
16"	12.00	231.7	14.25	150	3.75	1218	0.88	975	50-160-S1L1	14.25	150	3.75	1218	0.88	975	50-160-S1L2	20.00	150	3.75	1218	0.88	975	50-160-S1L3
18"	12.00	289.4	14.38	175	3.75	1367	0.75	5248	50-180-S1L1	14.63	175	3.75	1367	0.75	5248	50-180-S1L2	20.00	175	3.75	1367	0.75	5248	50-180-S1L3
20"	12.00	352.8	14.50	175	3.75	1516	0.63	7096	50-200-S1L1	15.00	175	3.75	1516	0.63	7096	50-200-S1L2	20.00	175	3.75	1516	0.63	7096	50-200-S1L3
22"	12.00	422.6	14.63	175	3.75	1665	0.63	9,331	50-220-S1L1	x	x	x	x	x	x	x	20.00	175	3.75	1665	0.63	9,331	50-220-S1L3
24"	12.00	498.6	14.75	175	3.75	1813	0.50	11985	50-240-S1L1	16.00	175	3.75	1813	0.50	11,985	50-240-S1L2	20.00	175	3.75	1813	0.50	11,985	50-240-S1L3

** 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