

MULTI-PLY EXPANSION JOINTS

Series 1 for Higher Pressure

SERIES 1 - XL



- 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"	x	5.78	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2-1/2"	x	9.51	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
3"	9.00	12.47	10.75	140	1.63	840	1.00	248	50-30-S1XL1	11.63	140	1.63	840	1.00	248	50-30-S1XL2	17.00	140	1.63	840	1.00	248	50-30-S1XL3
3-1/2"	9.00	16.69	x	x	x	x	x	x	x	11.75	100	2.00	639	1.38	251	50-35-S1XL2	17.00	100	2.00	639	1.38	251	50-35-S1XL3
4"	12.00	20.51	13.75	65	2.50	527	2.00	144	50-40-S1XL1	14.88	65	2.50	527	2.00	144	50-40-S1XL2	20.00	65	2.50	527	2.00	144	50-40-S1XL3
5"	12.00	30.63	13.75	125	2.38	1090	1.25	443	50-50-S1XL1	15.13	125	2.38	1090	1.25	443	50-50-S1XL2	20.00	125	2.38	1090	1.25	443	50-50-S1XL3
6"	12.00	41.83	13.75	125	2.75	999	1.00	566	50-60-S1XL1	15.38	125	2.75	999	1.00	566	50-60-S1XL2	20.00	125	2.75	999	1.00	566	50-60-S1XL3
8"	12.00	69.07	14.25	150	2.75	1271	1.00	1164	50-80-S1XL1	15.75	150	2.75	1271	1.00	1164	50-80-S1XL2	20.00	150	2.75	1271	1.00	1164	50-80-S1XL3
10"	15.00	107.9	17.25	100	4.25	958	1.63	884	50-100-S1XL1	19.13	100	4.25	958	1.63	884	50-100-S1XL2	23.00	100	4.25	958	1.63	884	50-100-S1XL3
12"	15.00	148.6	17.25	120	4.13	1150	1.50	1451	50-120-S1XL1	19.63	120	4.13	1150	1.50	1451	50-120-S1XL2	23.00	120	4.13	1150	1.50	1451	50-120-S1XL3
14"	15.00	181.1	17.12	85	4.75	855	1.50	1316	50-140-S1XL1	19.75	85	4.75	855	1.50	1316	50-140-S1XL2	23.00	85	4.75	855	1.50	1316	50-140-S1XL3
16"	15.00	231.7	17.25	100	5.00	975	1.25	1921	50-160-S1XL1	20.25	100	5.00	975	1.25	1921	50-160-S1XL2	23.00	100	5.00	975	1.25	1921	50-160-S1XL3
18"	15.00	289.4	17.38	110	4.75	1094	1.25	2687	50-180-S1XL1	20.63	110	4.75	1094	1.25	2687	50-180-S1XL2	23.00	110	4.75	1094	1.25	2687	50-180-S1XL3
20"	15.00	352.8	17.50	125	4.75	1213	1.00	3633	50-200-S1XL1	21.00	125	4.75	1213	1.00	3633	50-200-S1XL2	23.00	125	4.75	1213	1.00	3633	50-200-S1XL3
22"	15.00	422.6	17.63	135	4.75	1332	1.00	4,777	50-220-S1XL1	x	x	x	x	x	x	x	23.00	135	4.75	1332	1.00	4,777	50-220-S1XL3
24"	6.00	498.6	17.75	150	4.75	1450	0.88	6136	50-240-S1XL1	22.00	150	4.75	1450	0.88	6,136	50-240-S1XL2	23.00	150	4.75	1450	0.88	6,136	50-240-S1XL3

** 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