

Maxi-Joint®

Single (1) Wide Arch Expansion Joints

Style 1101

Features:

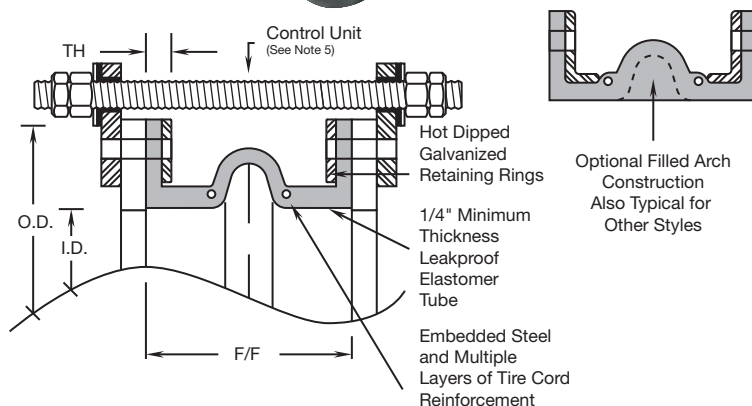
- Versatile hand-built construction. Made in the U.S.A.
- Standard or custom face to face dimensions
- Wide flowing arch design
- Exceptional all directional movement capability
- Virtually eliminates sediment buildup
- Higher pressure rating than conventional expansion joints
- Excellent chemical and abrasion resistance
- Full vacuum rating (30" Hg) in all sizes
- 250°F continuous service standard, 400°F available
- Filled arch design available
- Hot dip galvanized retaining rings standard
- Absorbs noise, vibration and shock
- Compensates for minor misalignment and offset
- Low stiffness and deflection forces
- Integrally flanged design, no gaskets required
- Simple to install and high strength
- Provides easy access to piping and equipment
- Other standard drilling available, including ASA 300, DIN, PN, JIS, API, and Navy
- Wide variety of tube and cover elastomers available, including Pure Gum Rubber, EPDM, Neoprene, Butyl, Nitrile, Hypalon®, Viton®, Teflon®, Food Grade, and more

Photo of narrow arch joint shown.



Style 1101

Single (1) Wide Arch, Pool Type, Expansion Joints



SIZE I.D. (inch)	LENGTH F/F (inch)	MAX Pressure (PSIG)	VACUUM Rating (inch Hg)	FLANGES – 125/150 LB. (NOTE 8)					MOVEMENTS					SPRING RATE			GROSS Weight (lbs)	
				O.D. (inch)	B.C. (inch)	Hole (no.)	Hole (inch)	TH. (inch)	Comp. (inch)	Ext. (inch)	Lateral (inch)	Angular (degree)	Torsional (degree)	Comp. (lbs/in)	Ext. (lbs/in)	Lateral (lbs/in)		
2	6	225	30	6	4-3/4	4	3/4	7/8	1	3/4	7/8	1	39	4	270	340	450	7
2-1/2	6	225	30	7	5-1/2	4	3/4	7/8	1	3/4	7/8	1	33	3.8	340	420	480	8
3	6	225	30	7-1/2	6	4	3/4	7/8	1	3/4	7/8	1	28	3.7	400	510	540	10
4	6	225	30	9	7-1/2	8	3/4	7/8	1	3/4	7/8	1	22	3.6	550	710	590	14
5	6	225	30	10	8-1/2	8	7/8	7/8	1	3/4	7/8	1	18	3.4	670	880	710	17
6	6	225	30	11	9-1/2	8	7/8	7/8	1	3/4	7/8	1	15	3.2	820	1050	790	20
8	6	225	30	13-1/2	11-3/4	8	7/8	7/8	1	3/4	7/8	1	12	3.1	990	1160	960	29
10	8	225	30	16	14-1/4	12	1	7/8	2	1	1 1/4	17	3	960	1170	820	39	
12	8	225	30	19	17	12	1	7/8	2	1	1 1/4	14	2.9	1,010	1,250	970	58	
14	8	220	30	21	18-3/4	12	1-1/8	1	2 1/4	1 1/8	1 1/4	12	2.8	1,080	1,300	1,140	65	
16	8	160	30	23-1/2	21-1/4	16	1-1/8	1	2 1/4	1 1/8	1 1/4	11	2.7	1,150	1,390	1,320	80	
18	8	160	30	25	22-3/4	16	1-1/4	1	2 1/4	1 1/8	1 1/4	10	2.6	1,220	1,570	1,450	90	
20	8	130	30	27-1/2	25	20	1-1/4	1	2 1/4	1 1/8	1 1/4	9	2.5	1,280	1,750	1,620	101	
24	10	130	30	32	29-1/2	20	1-3/8	1 1/8	2 1/2	1 1/4	1 3/8	8	2.4	1,730	2,100	1,740	120	
30	10	100	30	38-3/4	36	28	1-3/8	1 1/8	2 1/2	1 1/4	1 3/8	7	2.3	2,180	2,660	2,190	172	
36	10	90	30	46	42-3/4	32	1-5/8	1 1/8	2 1/2	1 1/4	1 3/8	6	2.2	2,660	3,250	2,680	219	
42	12	90	30	53	49-1/2	36	1-5/8	1 1/8	2 1/2	1 1/4	1 1/2	4.8	2.1	3,030	3,650	3,020	290	
48	12	90	30	59-1/2	56	44	1-5/8	1 1/8	2 1/2	1 1/4	1 1/2	4.2	2	3,390	4,150	3,410	342	
54	12	85	30	66-1/4	62-3/4	44	2	1 1/8	2 1/2	1 1/4	1 1/2	3.8	1.9	4,120	5,020	4,140	405	
60	12	85	30	73	69-1/4	52	2	1 1/8	2 1/2	1 1/4	1 1/2	3.6	1.8	4,520	5,560	4,580	500	
66	12	85	30	80	76	52	2	1 1/8	2 1/2	1 1/4	1 1/2	3.3	1.7	5,250	6,390	5,270	580	
72	12	85	30	86-1/2	82-1/2	60	2	1 1/4	2 1/2	1 1/4	1 1/2	3	1.6	5,900	7,180	5,920	650	
78	12	80	30	93	89	64	2-1/8	1 1/4	2 1/2	1 1/4	1 1/2	2.6	1.5	6,420	7,850	6,570	715	
84	12	80	30	99-3/4	95-1/2	64	2-1/4	1 1/4	2 1/2	1 1/4	1 1/2	2.3	1.4	6,950	8,670	7,400	780	
90	12	80	30	106-1/2	102	68	2-3/8	1 1/4	2 1/2	1 1/4	1 1/2	2.1	1.3	7,270	9,200	8,080	880	
96	12	80	30	113-1/4	108-1/2	68	2-1/2	1 1/4	2 1/2	1 1/4	1 1/2	2	1.2	7,650	10,100	9,070	1,010	
102	12	60	30	120	114-1/2	72	2-5/8	1 3/8	2 1/2	1 1/4	1 1/2	1.6	0.8	8,128	10,730	9,640	1,073	
108	12	60	30	126-3/4	120-3/4	72	2-5/8	1 3/8	2 1/2	1 1/4	1 1/2	1.5	0.7	8,606	11,360	10,200	1,136	

- Notes:
- 1.) All parts listed are designed for 30" Hg (full vacuum) and have a maximum test at 26" Hg due to facility altitude and equipment limitations.
 - 2.) Maximum operating temperature of 250 deg F for EPDM, Butyl, Hypalon, and Viton; 225 deg F for Neoprene; 210 deg F for Nitrile; 180 deg F for Pure Gum Rubber; 300 deg F for EPDM and Butyl in air service at 25 PSI maximum; higher pressure and temperature ratings available.
 - 3.) All sizes can be supplied with a filled arch reducing their movements by 50% and increasing the spring rates fourfold.
 - 4.) For full product specifications and installation instructions, see SPEC 1101-1 and ININ 1101-1. Gross weights include retaining rings.
 - 5.) **WARNING:** Control units (sold separately) must be used when piping is not properly anchored. Number of rods are dependent upon maximum field test pressures. Expansion joints may operate in pipelines carrying fluids at elevated temperatures and pressures, so precaution should be taken to ensure proper installation and regular inspection. Care is required to protect personnel in the event of leakage or splash. Adequate floor drains are always recommended.
 - 6.) Movements are non-concurrent. Contact General Rubber for concurrent movements, and for sizes not shown up to 144" I.D.
 - 7.) Series 1100 and 1200 replace styles 1025, 1050 and 1075.
 - 8.) Standard 125/150 lb. drilling includes, 1"-24" with ANSI B16.1 Class 125 lb./B16.5 Class 150 lb., 30"-60" with ANSI B16.1 Class 125 lb./ B16.47 series A, Class 150 lb., 72"- 108" with ANSI B16.1 Class 125 lb./ AWWA C207 Class B.

