

# Maxi-Joint®

Quadruple (4) Wide Arch Expansion Joints

## Style 1104, 1204

### Features:

- Quadruple the movement with 1/4 the spring rate
- 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 joint
- Excellent chemical and abrasion resistance
- Full vacuum rating (30" Hg) for style 1204
- 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

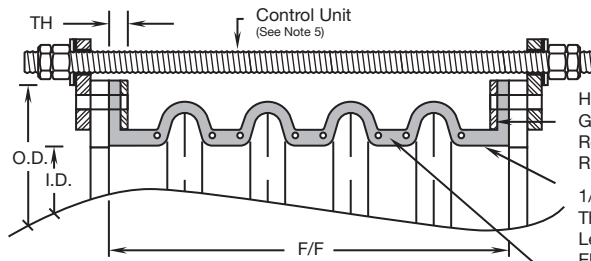


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Quadruple (4) Wide Arch Expansion Joints  
Quadruple the Movement with 1/4 the Spring Rate



Optional Filled Arch Construction Also Typical for Other Styles



Hot Dipped Galvanized Retaining Rings  
1/4" Minimum Thickness Leakproof Elastomer Tube  
Embedded Steel and Multiple Layers of Tire Cord Reinforcement

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	18	220	15	6	4-3/4	4	3/4	7/8	7	3 1/2	4	156	16	68	85	113	20
2-1/2	18	220	15	7	5-1/2	4	3/4	7/8	7	3 1/2	4	132	15.2	85	105	120	23
3	18	220	15	7-1/2	6	4	3/4	7/8	7	3 1/2	4	112	14.8	100	128	135	27
4	18	220	15	9	7-1/2	8	3/4	7/8	7	3 1/2	4	88	14.4	138	178	148	35
5	18	220	15	10	8-1/2	8	7/8	7/8	7	3 1/2	4	72	13.6	168	220	178	41
6	18	220	15	11	9-1/2	8	7/8	7/8	7	3 1/2	4	60	12.8	205	263	198	48
8	18	220	15	13-1/2	11-3/4	8	7/8	7/8	7	3 1/2	4	48	12.4	248	290	240	72
10	20	220	15	16	14-1/4	12	1	7/8	8	4	5	68	12	240	293	205	84
12	20	220	15	19	17	12	1	7/8	8	4	5	56	11.6	253	313	243	111
14	20	220	15	21	18-3/4	12	1-1/8	1	9	4 1/2	5	48	11.2	270	325	285	151
16	20	160	15	23-1/2	21-1/4	16	1-1/8	1	9	4 1/2	5	44	10.8	288	348	330	178
18	20	160	15	25	22-3/4	16	1-1/4	1	9	4 1/2	5	40	10.4	305	393	363	195
20	20	130	15	27-1/2	25	20	1-1/4	1	9	4 1/2	5	36	10	320	438	405	234
24	24	130	15	32	29-1/2	20	1-3/8	1 1/8	10	5	5 1/2	32	9.6	433	525	435	256
30	24	100	10	38-3/4	36	28	1-3/8	1 1/8	10	5	5 1/2	28	9.2	545	665	548	347
36	24	90	10	46	42-3/4	32	1-5/8	1 1/8	10	5	5 1/2	24	8.8	665	813	670	469
42	26	90	10	53	49-1/2	36	1-5/8	1 1/8	10	5	6	19.2	8.4	758	913	755	560
48	26	90	10	59-1/2	56	44	1-5/8	1 1/8	10	5	6	16.8	8	848	1038	853	660
54	26	85	10	66-1/4	62-3/4	44	2	1 1/8	10	5	6	15.2	7.6	1030	1255	1035	812
60	26	85	10	73	69-1/4	52	2	1 1/8	10	5	6	14.4	7.2	1130	1390	1145	955
66	26	85	10	80	76	52	2	1 1/8	10	5	6	13.2	6.8	1313	1598	1318	1,108
72	26	85	10	86-1/2	82-1/2	60	2	1 1/4	10	5	6	12	6.4	1475	1795	1480	1,211
78	26	80	10	93	89	64	2-1/8	1 1/4	10	5	6	10.4	6	1605	1963	1643	1,638
84	26	80	10	99-3/4	95-1/2	64	2-1/4	1 1/4	10	5	6	9.2	5.6	1738	2168	1850	2,038
90	26	80	10	106-1/2	102	68	2-3/8	1 1/4	10	5	6	8.4	5.2	1818	2300	2020	2,224
96	26	80	10	113-1/4	108-1/2	68	2-1/2	1 1/4	10	5	6	8	4.8	1913	2525	2268	2,383
102	26	60	10	120	114-1/2	72	2-5/8	1 3/8	10	5	6	6.4	3.2	2032	2683	2410	2,532
108	26	60	10	126-3/4	120-3/4	72	2-5/8	1 3/8	10	5	6	6	2.8	2152	2840	2550	2,681

- Notes:
- Series 1200 are designed for 30" Hg (full vacuum) and have a maximum test at 26" Hg due to facility altitude and equipment limitations.
  - 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.
  - All sizes can be supplied with a filled arch reducing their movements by 50% and increasing the spring rates fourfold.
  - For full product specifications and installation instructions, see SPEC 1104-1 and ININ 1104-1. Gross weights include retaining rings.
  - 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.
  - Movements are non-concurrent. Contact General Rubber for concurrent movements, and for sizes not shown up to 144" I.D.
  - Series 1100 and 1200 replace styles 1025, 1050 and 1075.
  - 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.

