Maxi-Joint®

Triple (3) Wide Arch Expansion Joint

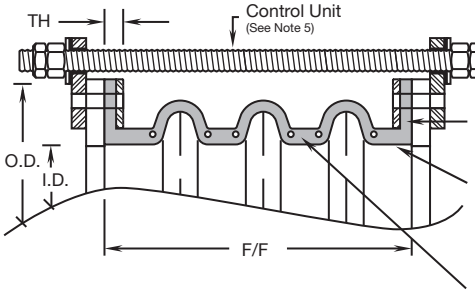
Style 1103, 1203

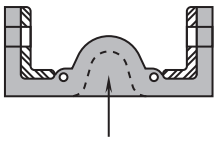
Features:

- Triple the movement with 1/3 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 joints
- Excellent chemical and abrasion resistance
- Full vacuum rating (30" Hg) for style 1203
- 250ºF continuous service standard, 400ºF 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

Style 1103, 1203

Triple (3) Wide Arch Expansion Joints
Triple the Movement with 1/3 the Spring Rate





Optional Filled Arch Construction Also Typical for Other Styles

SIZE	LENGTH	MAX	VACUUM	FLANGES – 125/150 LB. (NOTE 8)					MOVEMENTS					SPRING RATE			GROSS
I.D. (inch)	F/F (inch)	Pressure (PSIG)	Rating (inch Hg)	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)	Weight (lbs)
2	14	220	15	6	4-3/4	4	3/4	7/8	5 1/4	2 5/8	3	117	12	90	113	150	16
2-1/2	14	220	15	7	5-1/2	4	3/4	7/8	5 1/4	2 5/8	3	99	11.4	113	140	160	19
3	14	220	15	7-1/2	6	4	3/4	7/8	5 1/4	2 5/8	3	84	11.1	133	170	180	22
4	14	220	15	9	7-1/2	8	3/4	7/8	5 1/4	2 5/8	3	66	10.8	183	237	197	28
5	14	220	15	10	8-1/2	8	7/8	7/8	5 1/4	2 5/8	3	54	10.2	223	293	237	33
6	14	220	15	11	9-1/2	8	7/8	7/8	5 1/4	2 5/8	3	45	9.6	273	350	263	48
8	14	220	15	13-1/2	11-3/4	8	7/8	7/8	5 1/4	2 5/8	3	36	9.3	330	387	320	57
10	16	220	15	16	14-1/4	12	1	7/8	6	3	3 3/4	51	9	320	390	273	69
12	16	220	15	19	17	12	1	7/8	6	3	3 3/4	42	8.7	337	417	323	90
14	16	220	15	21	18-3/4	12	1-1/8	1	6 3/4	3 3/8	3 3/4	36	8.4	360	433	380	122
16	16	160	15	23-1/2	21-1/4	16	1-1/8	1	6 3/4	3 3/8	3 3/4	33	8.1	383	463	440	144
18	16	160	15	25	22-3/4	16	1-1/4	1	6 3/4	3 3/8	3 3/4	30	7.8	407	523	483	157
20	16	130	15	27-1/2	25	20	1-1/4	1	6 3/4	3 3/8	3 3/4	27	7.5	427	583	540	189
24	20	130	15	32	29-1/2	20	1-3/8	1 1/8	7 1/2	3 3/4	4 1/8	24	7.2	577	700	580	211
30	20	100	10	38-3/4	36	28	1-3/8	1 1/8	7 1/2	3 3/4	4 1/8	21	6.9	727	887	730	283
36	20	90	10	46	42-3/4	32	1-5/8	1 1/8	7 1/2	3 3/4	4 1/8	18	6.6	887	1083	893	387
42	22	90	10	53	49-1/2	36	1-5/8	1 1/8	7 1/2	3 3/4	4 1/2	14.4	6.3	1010	1217	1007	469
48	22	90	10	59-1/2	56	44	1-5/8	1 1/8	7 1/2	3 3/4	4 1/2	12.6	6	1130	1383	1137	554
54	22	85	10	66-1/4	62-3/4	44	2	1 1/8	7 1/2	3 3/4	4 1/2	11.4	5.7	1373	1673	1380	680
60	22	85	10	73	69-1/4	52	2	1 1/8	7 1/2	3 3/4	4 1/2	10.8	5.4	1507	1853	1527	800
66	22	85	10	80	76	52	2	1 1/8	7 1/2	3 3/4	4 1/2	9.9	5.1	1750	2130	1757	928
72	22	85	10	86-1/2	82-1/2	60	2	1 1/4	7 1/2	3 3/4	4 1/2	9	4.8	1967	2393	1973	1,018
78	22	80	10	93	89	64	2-1/8	1 1/4	7 1/2	3 3/4	4 1/2	7.8	4.5	2140	2617	2190	1,363
84	22	80	10	99-3/4	95-1/2	64	2-1/4	1 1/4	7 1/2	3 3/4	4 1/2	6.9	4.2	2317	2890	2467	1,688
90	22	80	10	106-1/2	102	68	2-3/8	1 1/4	7 1/2	3 3/4	4 1/2	6.3	3.9	2423	3067	2693	1,849
96	22	80	10	113-1/4	108-1/2	68	2-1/2	1 1/4	7 1/2	3 3/4	4 1/2	6	3.6	2550	3367	3023	1,983
102	22	60	10	120	114-1/2	72	2-5/8	1 3/8	7 1/2	3 3/4	4 1/2	4.8	2.4	2709	3577	3213	2,106
108	22	60	10	126-3/4	120-3/4	72	2-5/8	1 3/8	7 1/2	3 3/4	4 1/2	4.5	2.1	2869	3787	3400	2,230

Notes:

1.) Series 1200 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 1103-1 and ININ 1103-1. 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.

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