

# Maxi-Joint®

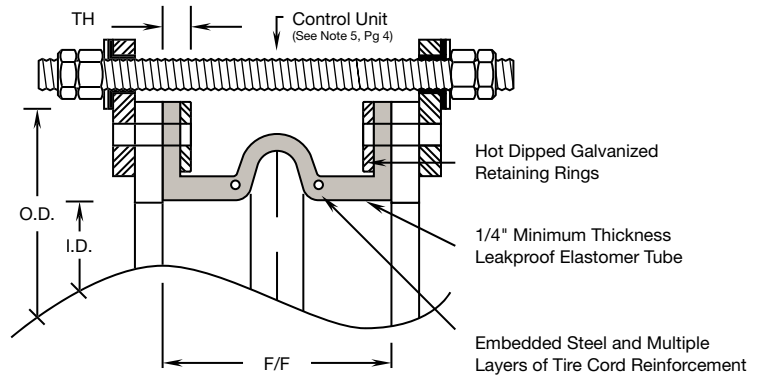
## Heavy Duty Expansion Joints

### SERIES 1100

#### 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 Style 1101 Sizes
- 250°F Continuous Service Standard, 400°F Available
- Filled Arch Design Available
- Hot Dip Galvanized Retaining Rings Standard
- Wide Variety of Tube and Cover Elastomers Available, Including Pure Gum Rubber, EPDM, Neoprene, Butyl, Nitrile, Hypalon®, Viton®, Teflon®, Food Grade, and More
- 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

### Style 1101 Single (1) Arch



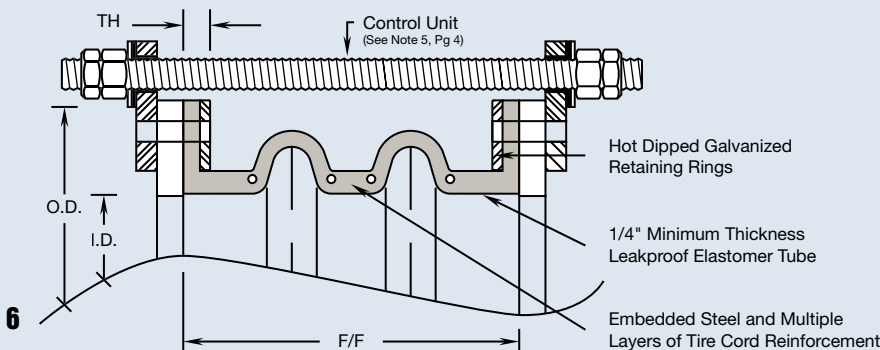
### SERIES 1200

#### Features:

- Additional Embedded Steel Reinforcement Enables the Series 1200 to Handle Full Vacuum (30" Hg) for Multiple Arch Joints in All Sizes Offered

### Style 1102 & 1202 Double (2) Arch

Double the Movement with 1/2 the Spring Rate



SIZE (I.D.) (inch)	SERIES 1101		SERIES 1102/1202		SERIES 1103/1203		SERIES 1104/1204		Flange TH (inch)	Pressure (PSIG)	STYLE 1101 MOVEMENTS					STYLE 1101 SPRING RATE		
	Length (F/F)	Weight (lbs)	Length (F/F)	Weight (lbs)	Length (F/F)	Weight (lbs)	Length (F/F)	Weight (lbs)			Comp. (inch)	Ext. (inch)	Lateral (inch)	Angular (degree)	Torsional (degree)	Comp. (lbs/in)	Ext. (lbs/in)	Lateral (lbs/in)
2	6	7	10	12	14	16	18	20	7/8	220	1-3/4	7/8	1	39	4	270	340	450
2-1/2	6	8	10	14	14	19	18	23	7/8	220	1-3/4	7/8	1	33	3.8	340	420	480
3	6	10	10	17	14	22	18	27	7/8	220	1-3/4	7/8	1	28	3.7	400	510	540
4	6	14	10	21	14	28	18	35	7/8	220	1-3/4	7/8	1	22	3.6	550	710	590
5	6	17	10	24	14	33	18	41	7/8	220	1-3/4	7/8	1	18	3.4	670	880	710
6	6	20	10	29	14	48	18	48	7/8	220	1-3/4	7/8	1	15	3.2	820	1050	790
8	6	29	10	42	14	57	18	72	7/8	220	1-3/4	7/8	1	12	3.1	990	1160	960
10	8	39	12	53	16	69	20	84	7/8	220	2-1/4	1-1/8	1-1/4	17	3	960	1170	820
12	8	58	12	69	16	90	20	111	7/8	220	2-1/4	1-1/8	1-1/4	14	2.9	1010	1250	970
14	8	65	12	93	16	122	20	151	1	220	2-1/4	1-1/8	1-1/4	12	2.8	1080	1300	1140
16	8	80	12	110	16	144	20	178	1	160	2-1/4	1-1/8	1-1/4	11	2.7	1150	1390	1320
18	8	90	12	119	16	157	20	195	1	160	2-1/4	1-1/8	1-1/4	10	2.6	1220	1570	1450
20	8	101	12	143	16	189	20	234	1	130	2-1/4	1-1/8	1-1/4	9	2.5	1280	1750	1620
24	10	120	15	166	20	211	24	256	1-1/8	130	2-1/2	1-1/4	1-1/2	8	2.4	1730	2100	1740
30	10	172	15	225	20	283	24	347	1-1/8	100	2-1/2	1-1/4	1-1/2	7	2.3	2180	2660	2190
36	10	219	15	304	20	387	24	469	1-1/8	90	2-1/2	1-1/4	1-1/2	6	2.2	2660	3250	2680
42	12	290	16	378	22	469	26	560	1-1/8	90	2-1/2	1-1/4	1-1/2	4.8	2.1	3030	3650	3020
48	12	342	16	449	22	554	26	660	1-1/8	90	2-1/2	1-1/4	1-1/2	4.2	2	3390	4150	3410
54	12	405	16	547	22	680	26	812	1-1/8	85	2-1/2	1-1/4	1-1/2	3.8	1.9	4120	5020	4140
60	12	500	16	646	22	800	26	955	1-1/8	85	2-1/2	1-1/4	1-1/2	3.6	1.8	4520	5560	4580
66	12	580	16	749	22	928	26	1108	1-1/8	85	2-1/2	1-1/4	1-1/2	3.3	1.7	5250	6390	5270
72	12	650	16	826	22	1018	26	1211	1-1/4	85	2-1/2	1-1/4	1-1/2	3	1.6	5900	7180	5920
78	12	715	16	1088	22	1363	26	1638	1-1/4	80	2-1/2	1-1/4	1-1/2	2.6	1.5	6420	7850	6570
84	12	780	16	1338	22	1688	26	2038	1-1/4	80	2-1/2	1-1/4	1-1/2	2.3	1.4	6950	8670	7400
90	12	880	16	1474	22	1849	26	2224	1-1/4	80	2-1/2	1-1/4	1-1/2	2.1	1.3	7270	9200	8080
96	12	1010	16	1583	22	1983	26	2383	1-1/4	80	2-1/2	1-1/4	1-1/2	2	1.2	7650	10,100	9070
102	12	1073	16	1682	22	2106	26	2532	1-1/4	60	2-1/2	1-1/4	1-1/2	1.6	0.8	8128	10,730	9640
108	12	1136	16	1780	22	2230	26	2681	1-1/4	60	2-1/2	1-1/4	1-1/2	1.5	0.7	8606	11,360	10,200

**Notes:**

- 1.) Style 1015 Notes 2,3,5 and 6 as shown on page 4, including a **WARNING** statement, also applies to series 1100 and 1200. For full product specifications and installation instructions, see SPEC 1100-1, 1200-1 and ININ 1100-1, 1200-1. Gross weights include retaining rings.
- 2.) Style 1101, 1202, 1203 and 1204 are designed for full vacuum (30" Hg) and have a maximum test at 26" Hg due to facility altitude and equipment limitations. Style 1102, 1103 and 1104 sizes 2"-24" are designed for 15" Hg and sizes 30"-108" are designed for 10" Hg.

- 3.) Technical data shown above reflects Style 1101 single arch design, additional arches typically increases movement and decreases spring rates proportionately. Contact the factory for full details including availability of larger sizes, higher pressure and temperature ratings, as well as additional arches.
- 4.) Series 1100 and 1200 will replace Styles 1025, 1050, and 1075.
- 5.) For drilling information see 125/150 lb. chart on page 5 and note 8 on page 4.
- 6.) Self-Guiding control units may require on multiple arch joints to prevent squirm depending on diameter, number of arches, and operating pressures. Contact the factory for full details.



**Style 1103 & 1203** Triple (3) Arch  
Triple the Movement with 1/3 the Spring Rate

**Style 1104 & 1204** Quadruple (4) Arch  
Quadruple the Movement with 1/4 the Spring Rate

