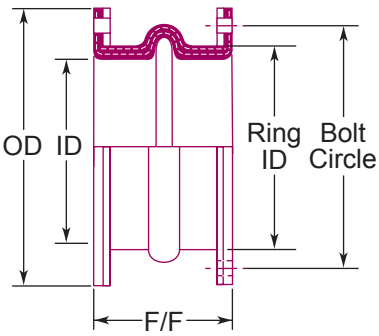
EVR Products A DEVJO COMPANY

ENGINEERED
FLEXIBLE CONNECTORS

SJ-221

EXPANSION JOINT

The SJ-221 expansion joint features a unique arch design which provides greater movement capabilities without increasing face-to-face requirements. The single arch SJ-221 provides the same movement capabilities as a traditional double arch design, while the double arch SJ-222 is equivalent to a quadruple arch product. This design also increases the flexibility of the joint, resulting in lower spring rates. This means less stress on adjacent piping system components.



Size ID	Flange OD	Bolt Circle	Holes No.	Holes Dia.	Ring ID	F/F 1	F/F 2	Work Pressure (psi) SR	LP	HP	Axial Comp.	Axial Ext.	Transverse Def.	Est. Weight Joint	Rings
2	6	4 3/4	4	3/4	3 5/8	6	10	165	15	200	1	1/2	1	3	5
2 1/2	7	5 1/2	4	3/4	4 1/8	6	10	165	15	200	1	1/2	1	3.8	6
3	7 1/2	6	4	3/4	4 5/8	6	10	165	15	200	1	1/2	1	4	7
4	9	7 1/2	8	3/4	5 7/8	6	10	165	15	200	1	1/2	1	5.5	8
5	10	8 1/2	8	7/8	6 7/8	6	10	165	15	200	1	1/2	1	5.8	9
6	11	9 1/2	8	7/8	7 7/8	6	10	165	15	200	1	1/2	1	9	10
8	13 1/2	11 3/4	8	7/8	9 7/8	6	10	140	15	190	1-1/2	3/4	1	18	15
10	16	14 1/4	12	1	12 1/8	8	16	140	15	190	1-1/2	3/4	1	27	18
12	19	17	12	1	14 1/2	8	16	140	15	190	1-1/2	3/4	1	31	25
14	21	18 3/4	12	1 1/8	16 1/2	8	16	85	15	130	2	1	1	38	27
16	23 1/2	21 1/4	16	1 1/8	18 1/2	8	16	65	15	110	2	1	1	44	33
18	25	22 3/4	16	1 1/4	20 1/2	8	16	65	15	110	2	1	1	49	33
20	27 1/2	25	20	1 1/4	22 5/8	8	16	65	15	110	2	1	1	53	38
22	29 1/2	27 1/4	20	1 3/8	24 5/8	10	16	65	15	110	2	1	1	54	44
24	32	29 1/2	20	1 3/8	26 5/8	10	16	65	15	110	2	1	1	64	48
26	34 1/4	31 3/4	24	1 3/8	28 7/8	10	16	55	15	90	2	1	1	73	57
28	36 1/2	34	28	1 3/8	30 7/8	10	16	55	15	90	2	1	1	81	62
30	38 3/4	36	28	1 3/8	32 7/8	10	16	55	15	90	2	1	1	84	66
32	41 3/4	38 1/2	28	1 5/8	35	10	16	55	15	90	2	1	1	95	75
34	43 3/4	40 1/2	32	1 5/8	37	10	16	55	15	90	2	1	1	103	78
36	46	42 3/4	32	1 5/8	39	10	18	55	15	90	2	1	1	110	81
38	48 3/4	45 1/4	32	1 5/8	41	10	18	55	15	90	2	1	1	119	95
40	50 3/4	47 1/4	36	1 5/8	43	10	18	55	15	90	2	1	1	125	106
42	53	49 1/2	36	1 5/8	45 1/4	12	18	55	15	80	2	1	1	155	116
44	55 1/4	51 3/4	40	1 5/8	47 1/4	12	18	55	15	80	2	1	1	165	127
46	57 1/4	53 3/4	40	1 5/8	49 1/4	12	18	55	15	80	2	1	1	178	132
48	59 1/2	56	44	1 5/8	51 1/4	12	18	55	15	80	2	1	1	187	138
50	61 3/4	58 1/4	44	1 7/8	53 1/4	12	18	55	15	80	2	1	1	200	154
52	64	60 1/2	44	1 7/8	55 1/4	12	18	55	15	80	2	1	1	213	157
54	66 1/4	62 3/4	44	1 7/8	57 1/4	12	18	55	15	80	2	1	1	224	160
56	68 3/4	65	48	1 7/8	59 1/4	12	18	55	15	80	2	1	1	237	174
58	71	67 1/4	48	1 7/8	61 1/4	12	18	55	15	80	2	1	1	250	182
60	73	69 1/4	52	1 7/8	63 1/4	12	18	55	15	80	2	1	1	262	190
62	75 3/4	71 3/4	52	1 7/8	65 1/4	12	18	55	15	80	2	1	1	275	212
66	80	76	52	1 7/8	69 1/4	12	18	55	15	80	2	1	1	305	236
72	86 1/2	82 1/2	60	1 7/8	75 1/4	12	18	45	15	70	2	1	1	350	278
78	93	89	64	2 1/8	81 1/4	12	18	45	15	70	2	1	1	394	296
84	99 3/4	95 1/2	64	2 1/8	87 1/2	12	18	45	15	70	2	1	1	438	336
96	113 1/4	108 1/2	68	2 3/8	99 3/8	12	18	45	15	70	2	1	1	526	480

*Sizes under 2" please contact factory.

(1) - Lengths shown are for new design. Replacement parts should be ordered to the exact F/F dimension. *Items are not normally supplied in multiple open arches, as squirm can occur. Minimum length of "face to face" can be reduced by eliminating the arch. Number of arches required depends upon anticipated total movement of the expansion joint.

2 - Multiple arch movement = single arch movement x number of arches. Filled arch construction reduces movement by 50%.

3 - Forces are based on one single open arch at zero pressure conditions, and should only be considered as approximate. Contact EVR for forces of multiple and filled arch products. Angular force is expressed in "foot pounds". For spring rates, contact EVR.

4 - Flange dimensions shown are in accordance with 125/150 pound standards of ANSI B16.1, B16.5, AWWA C-207 Table 3 Class E; AWWA C-207 Table 1 and 2 Class D. Retaining ring width is 3/8" in all sizes. Flange thickness is EVR standard.

5 - Flange drilling is also available in all international standards or custom applications. For more information, contact EVR.

Notes: Control unit assemblies are recommended for all applications. To ensure correct length, customer should provide width of mating flange or flange specification.