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Style 1201 "Flexi-Spool" Rubber Expansion Joints

Style 1201 "Flexi-Spool" rubber expansion joints are designed to handle a multitude of industrial applications. ***"Flexi-Spool"*** expansion joints are a spool-type, hand-wrapped product with several construction features that provide advantages over standard expansion joints.

The wide-arch design provides several times the movement capabilities of standard narrow-arch style joints. A high-pressure reinforcing and special arch configuration allows for high working pressures and vacuum ratings. A thick, wrapped-on rubber cover protects the reinforcing from damage and the environment. Full-face duck and rubber flanges provide an optimum sealing surface. Both tube and cover can be provided in a variety of elastomers to handle chemicals, moderate temperatures extremes, abrasion, or other conditions. Materials include Neoprene, Chlorobutyl, EPDM, Nitrile, natural rubber, Hypalon, Viton, and are also available with white PTFE liners (Style 1201TN). For applications where components are needed to convey drinking water or other food products, special FDA elastomer tubes and covers can be constructed. Open-arch is standard and filled-arch (designation FA) is available upon request.

"Flexi-Spool" expansion joints can also be constructed in concentric or eccentric tapered reducing styles (Style 1201RC or 1201RE). Special face-to-face lengths can be made to order. For greater motion requirements, Style 1202 Double Arch, Style 1203 Triple Arch, or Style 1204 4-Arch can be offered.

"Flexi-Spool" expansion joints are ideal for many demanding industrial applications such as water & waste treatment, power generation, pulp & paper, chemical handling, mine processing, and marine. Spool type expansion joints should always be installed using split steel retaining rings. Control units are always required in unanchored piping systems and are recommended in all other pressure applications as a back-up safety device in the event of anchor failure.

Materials & Temperatures:

Style Number	Cover Elastomer	Tube Elastomer	Max. Operating Temp
1201EE	EPDM	EPDM	250°F (121°C) [1]
1201BB	Chlorobutyl	Chlorobutyl	250°F (121°C) [1]
1201NN	Neoprene	Neoprene	225°F (107°C)
1201NP	Neoprene	Nitrile	212°F (100°C)
1201NR	Neoprene	Natural Rubber	180°F (82°C)
1201VN	Neoprene	Viton	225°F (107°C)
1201VV	Viton	Viton	250°F (121°C)[2]
1201FD	EPDM	FDA Black EPDM	250°F (121°C)
1201FW	White FDA EPDM	White FDA EPDM	250°F (121°C)

1) Rated 300°F (149°C) for blower service.
2) Viton tube and cover with Kevlar reinforcing is rated for 400°F (205°C).

1-800-234-2566 8040 NE 33rd Drive Portland, OR 97211 www.Unisource-Mfg.com

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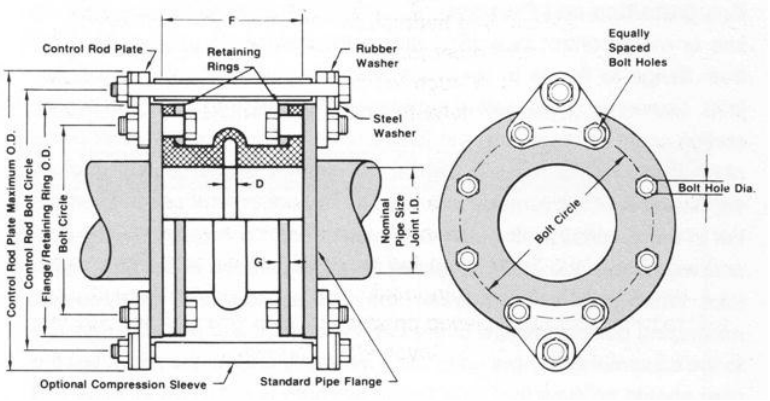
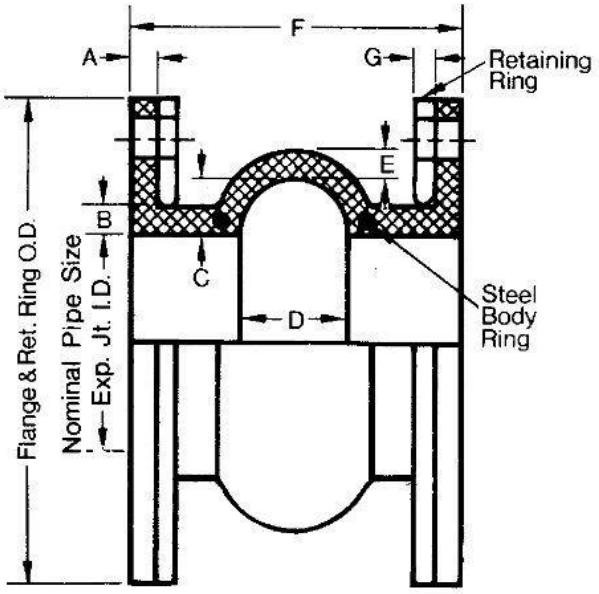
Style 1201 "Flexi-Spool"
Single Arch Expansion Joint



RETAINING RINGS & CONTROL UNITS



STYLE 1201 SINGLE ARCH – SIZES, MOVEMENTS, PRESSURE RATINGS, WEIGHTS

Size (I.D.) (In.)	F/F (In.)	Allowable Movements From Neutral Face-to-Face (In.)				Effective Area (Sq. In.)	Pressure Ratings		Weights		
		Axial Comp	Axial Ext	Lateral Deflection	Angular Rotation		Positive (PSIG)	Vacuum [6] (in. Hg.)	Exp Jt.	Ret Rings	Control Rods[4]
1-1/2	6	1.75	.75	.75	15 Deg	7.4	225	26	3	3	6
2	6	1.75	.75	.75	15 Deg	12.4	225	26	4	4	7
2-1/2	6	1.75	.75	.75	15 Deg	15.7	225	26	4.5	5.6	7
3	6	1.75	.75	.75	15 Deg	19.4	225	26	5.5	6	7
4	6	1.75	.75	.75	15 Deg	27.9	225	26	8	7.5	8
5	6	1.75	.75	.75	15 Deg	38.1	225	26	9	8	8
6	6	1.75	.75	1	13 Deg	49.9	225	26	11	9	9
8	6	1.75	.75	1	10 Deg	78.0	225	26	15	12	12
10	8	1.75	.75	1	9 Deg	120	225	26	23	16	16
12	8	1.75	.75	1	8 Deg	162	225	26	34	22	16
14	8	1.75	.75	1	7 Deg	210	225	26	40	25	20
16	8	1.75	.75	1	6 Deg	265	160	15	47	27	20
18	8	1.75	.75	1	5 Deg	326	160	15	56	29	21
20	8	1.75	.75	1	6 Deg	393	130	15	67	35	21
24	10	1.75	1	1	5 Deg	562	130	15	79	46	32
26	10	1.75	1	1	4 Deg	649	110	15	100	50	32
28	10	1.75	1	1	4 Deg	743	110	15	102	55	32
30	10	1.75	1	1	4 Deg	842	95	15	117	58	32
36	10	2.25	1	1	3 Deg	1179	90	15	143	99	43
42	12	2.25	1	1	3 Deg	1628	90	15	193	110	44
48	12	2.25	1	1	3 Deg	2086	90	15	211	154	87
54	12	2.25	1.25	1	3 Deg	2599	85	15	265	185	87
60	12	2.25	1.25	1	3 Deg	3209	85	15	309	215	87
72	12	2.25	1.25	1	2 Deg	4527	85	15	385	300	87

1) For concentric and eccentric reducing style, See Unisource 1201RC and 1201 RE specification pages.
2) For double arch , see Unisource 1202 style. For triple arch, see Unisource 1203 style. For 4-arch, see Unisource 1204 style.
3) See chart on opposite page for temperature ratings.
4) Control unit weight is based on a two-rod set up to 48" diameter, and 3-rod set for 54" diameter and larger.
5) For filled arch, 1201FA, movement ratings will be 50% of those listed above.
6) Style 1201 single arch expansion joints can be specially manufactured for 30 In. Hg vacuum if required.

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