

Style 1201RC & RE Concentric & Eccentric Reducing Expansion Joints



Style 1201RC Concentric & 1201RE Eccentric

"Flexi-Spool" reducing rubber expansion joints are ideal for instances where piping must be reduced and expansion joints are also needed. **"Flexi-Spool"** expansion joints are a spool-type, hand-wrapped product designed to accommodate piping movements, and act as an absorber for equipment start-up and shut-down shock and to handle ongoing equipment vibration. **Style 1201RC Concentric & 1201RE Eccentric Reducing Expansion Joints** can save money and space by combining the job of both a pipe reducer and a straight expansion joint.

The arch design can take up moderate amounts of pipe motion axially, laterally, and in the angular plane. 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, and Viton. 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.

Style 1201RC & RE "Flexi-Spool" expansion joints can be constructed in special face-to-face lengths longer than shown on these tables. For greater motion requirements, Style 1202RC or RE Double 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.

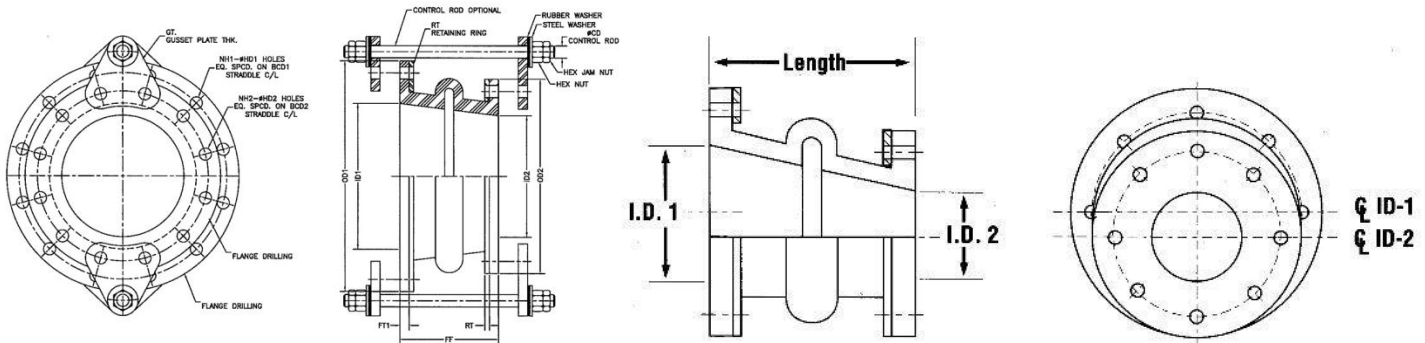
Materials & Temperatures:

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

Style 1201RC & RE Concentric & Eccentric Reducing Expansion Joints – Size Combinations



Style 1201RC Showing Control Units

Style 1201REC Showing Parallel I.D. Axis

STYLE 1201RC & RE REDUCING SINGLE ARCH – SIZES, MOVEMENTS, PRESSURE RATINGS, WEIGHTS
 (Sizes are examples – other size combinations may be available. Check with factory for form availability.)

Large End I.D. (In.)	Small End I.D. (In.)	F/F (In.)	Allowable Movements From Neutral Face-to-Face (In.)				Pressure Ratings		Approx. Weights (Lbs.)		
			Axial Comp	Axial Ext	Lateral Deflection	Angular Rotation	Positive (PSIG)	Vacuum (in. Hg.)	Exp Jt.	Ret Rings	Control Rods ³
3	2	8	½	¼	½	16 Deg	165	15	6	5	16
4	2	8	½	¼	½	14 Deg	165	15	7	6	16
4	3	8	½	¼	½	10 Deg	165	15	11	7	16
6	3	8	½	¼	½	6 Deg	150	15	16	8	28
6	4	8	½	¼	½	6 Deg	150	15	17	9	28
6	5	8	½	¼	½	6 Deg	150	15	18	9	28
8	4	10	¾	3/8	½	6 Deg	150	15	19	10	42
8	6	8	¾	3/8	½	6 Deg	150	15	20	11	46
10	6	8	¾	3/8	½	6 Deg	150	15	34	13	62
10	8	10	¾	3/8	½	6 Deg	150	15	36	14	62
12	8	10	¾	3/8	½	5 Deg	150	15	42	17	68
12	10	10	¾	3/8	½	5 Deg	150	15	44	19	58
14	8	14	¾	3/8	½	4 Deg	90	15	55	19	68
14	12	10	¾	3/8	½	4 Deg	90	15	57	24	62
16	10	10	¾	3/8	½	3 Deg	70	15	64	22	90
16	12	10	¾	3/8	½	3 Deg	70	15	66	25	84
18	12	10	¾	3/8	½	3 Deg	70	15	72	26	96
18	14	10	¾	3/8	½	3 Deg	70	15	75	27	86

- 1) For double arch, see Unisource 1202RC & RE style.
- 2) See chart on opposite page for temperature ratings.
- 3) Control unit weight is based on a two-rod set.
- 4) For filled arch, 1201RC/FA or 1201RE/FA, movement ratings will be 50% of those listed above.
- 5) Style 1201 single arch expansion joints can be specially manufactured for higher pressures and vacuum ratings if required.