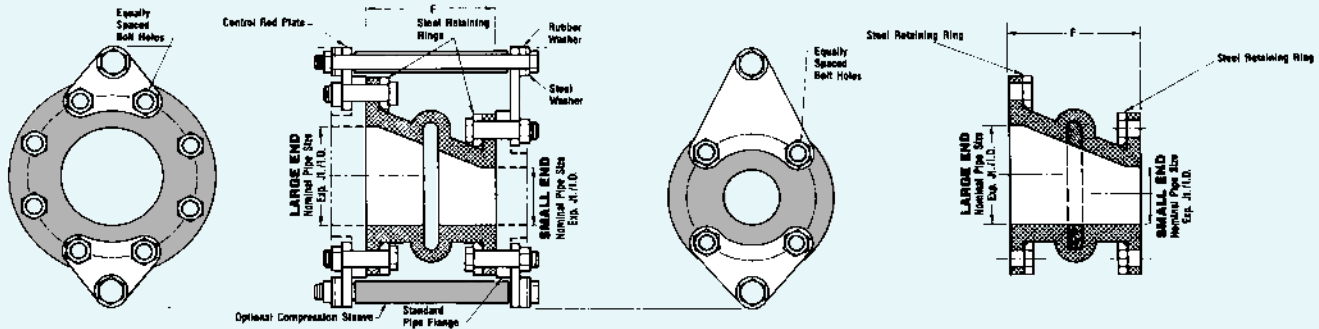


eccentric reducer expansion joints



**Figure 1: Style RE-221
Single Open Arch**

**Figure 2: Style REFA-221
Single Filled Arch**

Table 2: Sizes • Movements • Pressures • Weights

Eccentric Joint Size I.D. x I.D. x Length	Stock		RE-221 Open Arch Capacity: From Neutral Position						Weight/Pounds			Stock		REFA-221 Filled Arch Capacity: From Neutral Position						Weight/Pounds			Pressure	
	RB Butyl	/NN Neoprene	Axial Compression	Axial Extension	±Lateral Deflection	±Angular Deflection ¹	Torsional Movement ²	Thrust Factor ³	Expansion Joint Open Arch	Retaining Ring Set	Control Rod Set	RB Butyl	/NN Neoprene	Axial Compression	Axial Extension	±Lateral Deflection	±Angular Deflection ¹	Torsional Movement ²	Thrust Factor ³	Expansion Joint Filled Arch	Retaining Ring Set	Control Rod Set	Positive Pressure PSIG	Vacuum In. Hg
			Inches	Inches	Inches	Degree	Degree	Inches						Inches	Inches	Degree	Degree							
2 x 1 x 6*	X	X	.5	.25	.5	18.4°	3°	12.69	3	3	6	X	X	.25	.125	.3	9.5°	1.8°	3.14	3	3	6	200	26
2 x 1.5 x 6*	S	X	.5	.25	.5	15.9°	3°	14.32	3	3	6	X	X	.25	.125	.3	8.1°	1.8°	3.14	3	3	6	200	26
2.5 x 1.5 x 6*	S	X	.5	.25	.5	14.0°	3°	16.04	3	3	7	X	S	.25	.125	.3	6.4°	1.8°	4.97	3	3	7	200	26
3 x 1.5 x 6*	S	X	.5	.25	.5	12.5°	3°	17.87	4	4	7	X	X	.25	.125	.3	6.4°	1.8°	7.06	4	4	7	200	26
3 x 2 x 6*	S	S	.5	.25	.5	11.3°	3°	19.79	4	4	7	S	S	.25	.125	.3	5.7°	1.8°	7.06	4	4	7	200	26
3 x 2.5 x 6*	S	X	.5	.25	.5	10.3°	3°	21.81	5	5	7	X	X	.25	.125	.3	5.2°	1.8°	7.06	5	5	7	200	26
4 x 2 x 6*	S	S	.5	.25	.5	9.5°	3°	23.93	5	5	7	X	X	.25	.125	.3	4.8°	1.8°	12.57	5	5	7	200	26
4 x 2 x 8	S	X	.5	.25	.5	9.5°	3°	23.93	6	5	7	X	X	.25	.125	.3	4.8°	1.8°	12.57	6	5	7	200	26
4 x 2 x 9*	X	X	.5	.25	.5	9.5°	3°	23.93	6	5	7	X	X	.25	.125	.3	4.8°	1.8°	12.57	6	5	7	200	26
4 x 2.5 x 6*	S	X	.5	.25	.5	8.7°	3°	26.14	6	6	8	X	S	.25	.125	.3	4.4°	1.8°	12.57	6	6	8	200	26
4 x 2.5 x 8*	X	X	.5	.25	.5	8.7°	3°	26.14	6	6	8	X	X	.25	.125	.3	4.4°	1.8°	12.57	6	6	8	200	26
4 x 3 x 6*	S	S	.5	.25	.5	8.1°	3°	28.46	6	6	8	S	S	.25	.125	.3	4.1°	1.8°	12.57	6	6	8	200	26
4 x 3 x 7	S	X	.5	.25	.5	8.1°	3°	28.46	6	6	8	X	X	.25	.125	.3	4.1°	1.8°	12.57	6	6	8	200	26
5 x 4 x 6*	S	X	.5	.25	.5	6.3°	3°	38.70	9	7	10	X	X	.25	.125	.3	3.2°	1.8°	19.63	11	7	10	190	26
6 x 3 x 6	S	X	.5	.25	.5	6.3°	3°	38.70	8	7	12	S	S	.25	.125	.3	3.2°	1.8°	28.27	9	7	12	190	26
6 x 3 x 8	X	X	.5	.25	.5	6.3°	3°	38.70	9	7	13	X	X	.25	.125	.3	3.2°	1.8°	28.27	11	7	13	190	26
6 x 3 x 12*	S	S	.5	.25	.5	6.3°	3°	38.70	10	7	14	S	S	.25	.125	.3	3.2°	1.8°	28.27	13	7	14	190	26
6 x 4 x 6*	S	X	.5	.25	.5	5.7°	3°	44.41	8	7	11	X	X	.25	.125	.3	2.9°	1.8°	28.27	8	7	11	190	26
6 x 4 x 7	S	X	.5	.25	.5	5.7°	3°	44.41	9	7	12	X	X	.25	.125	.3	2.9°	1.8°	28.27	11	7	12	190	26
6 x 4 x 8	S	X	.5	.25	.5	5.7°	3°	44.41	9	7	11	X	X	.25	.125	.3	2.9°	1.8°	28.27	11	7	11	190	26
6 x 4 x 9	S	X	.5	.25	.5	5.7°	3°	44.41	10	7	11	X	X	.25	.125	.3	2.9°	1.8°	28.27	12	7	11	190	26
6 x 5 x 6*	S	S	.5	.25	.5	5.2°	3°	50.51	8	8	11	S	S	.25	.125	.3	2.6°	1.8°	28.27	9	8	11	190	26
8 x 4 x 6	S	X	.75	.375	.5	7.1°	3°	63.51	8	8	19	X	X	.375	.188	.3	3.6°	1.8°	50.27	9	9	19	190	26
8 x 4 x 15*	X	X	.75	.375	.5	7.1°	3°	63.51	11	9	23	X	X	.375	.188	.3	3.6°	1.8°	50.27	11	9	23	190	26
8 x 6 x 6*	S	S	.75	.375	.5	6.1°	3°	78.42	11	10	18	X	S	.375	.188	.3	3.1°	1.8°	50.27	11	10	18	190	26
8 x 6 x 8	S	X	.75	.375	.5	6.1°	3°	78.42	14	10	18	X	X	.375	.188	.3	3.1°	1.8°	50.27	15	10	18	190	26
8 x 6 x 11	S	X	.75	.375	.5	6.1°	3°	78.42	19	10	20	X	X	.375	.188	.3	3.1°	1.8°	50.27	22	10	20	190	26
10 x 6 x 12	S	X	.75	.375	.5	5.4°	3°	94.90	23	11	28	X	X	.375	.188	.3	2.8°	1.8°	78.54	26	11	28	190	26
10 x 6 x 15*	X	X	.75	.375	.5	5.4°	3°	94.90	25	11	31	X	X	.375	.188	.3	2.8°	1.8°	78.54	29	11	31	190	26
10 x 8 x 8	S	X	.75	.375	.5	4.8°	3°	112.95	19	13	25	S	X	.375	.188	.3	2.4°	1.8°	78.54	22	13	25	190	26
10 x 8 x 9*	X	X	.75	.375	.5	4.8°	3°	112.95	19	13	25	X	X	.375	.188	.3	2.4°	1.8°	78.54	22	13	25	190	26
10 x 8 x 12	X	X	.75	.375	.5	4.8°	3°	112.95	20	13	25	X	X	.375	.188	.3	2.4°	1.8°	78.54	23	13	25	190	26
12 x 6 x 12*	X	X	.75	.375	.5	4.8°	3°	112.95	27	15	31	X	X	.375	.188	.3	2.4°	1.8°	113.10	29	15	31	190	26
12 x 8 x 8	X	S	.75	.375	.5	3.9°	3°	153.77	24	18	24	X	S	.375	.188	.3	1.9°	1.8°	113.10	25	18	24	190	26
12 x 8 x 12	S	S	.75	.375	.5	3.9°	3°	153.77	24	18	24	S	S	.375	.188	.3	1.9°	1.8°	113.10	25	18	24	190	26
12 x 10 x 8*	S	X	.75	.375	.5	3.9°	3°	153.77	24	18	24	S	S	.375	.188	.3	1.9°	1.8°	113.10	25	18	24	190	26
12 x 10 x 9*	X	X	.75	.375	.5	3.9°	3°	153.77	25	18	24	X	X	.375	.188	.3	1.9°	1.8°	113.10	27	18	24	190	26
12 x 10 x 14	S	X	.75	.375	.5	3.9°	3°	153.77	30	18	26	X	X	.375	.188	.3	1.9°	1.8°	113.10	34	18	26	190	26
14 x 10 x 8	S	X	.75	.375	.5	3.6°	2°	201.46	36	19	29	X	S	.375	.188	.3	1.8°	1.2°	153.94	38	19	29	130	26
14 x 10 x 15*	X	X	.75	.375	.5	3.6°	2°	201.46	42	19	33	X	X	.375	.188	.3	1.8°	1.2°	153.94	45	19	33	130	26
14 x 12 x 8*	S	X	.75	.375	.5	3.3°	2°	227.40	40	23	27	X	X	.375	.188	.3	1.7°	1.2°	153.94	40	23	27	130	26
14 x 12 x 9*	X	X	.75	.375	.5	3.3°	2°	227.40	41	23	28	X	X	.375	.188	.3	1.7°	1.2°	153.94	42	23	28	130	26
16 x 14 x 8*	S	X	.75	.375	.5	2.9°	2°	284.00	38	26	37	S	X	.375	.188	.3	1.4°	1.2°	201.06	40	26	37	110	26
16 x 14 x 9*	X	X	.75	.375	.5	2.9°	2°	284.00	39	26	37	X	X	.375	.188	.3	1.4°	1.2°	201.06	41	26	37	110	26
18 x 14 x 8	S	X	.75	.375	.5	2.5°	1°	346.88	43	29	34	S	X	.375	.188	.3	1.2°	0.6°	254.47	43	29	34	110	26
18 x 16 x 10*	X	X	.75	.375	.5	2.5°	1°	346.88	44	29	35	X	X	.375	.188	.3	1.2°	0.6°	254.47	45	29	35	110	26

For Sizes Not Shown: I.D. x I.D. • U-Type, Double or Triple Arch • Contact Factory for Proco Series 100.



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NOTES: *This length meets length required by ANSI B-16, B-16.24 and B-16.5. Lengths of all sizes meet E.S.A. specifications.

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- The amount of Angular Movement is based on the maximum allowable Extension Movement from Neutral. Angular Movement can be increased, if it is in conjunction with Compression Movement.
- Torsional Movement is expressed when the expansion joint is at Neutral.
- To determine End-Thrust: multiply Thrust Factor by operating pressures of system. This total is End Thrust in PS.I.G.
- Pressure rating is based on 170°F Operating Temperature. At higher temperatures, the pressure is slightly reduced. Minimum Burst Pressures is 4:1.

WARNING: Expansion joints may operate in pipelines or equipment carrying fluids and or gases at elevated temperatures and pressures. Normal precautions should be taken to make sure these parts are installed correctly and inspected regularly. Precautions should be taken to protect personnel in the event of leakage or splash. Note: Piping must be properly aligned and anchored to prevent damage to an expansion joint. Movement must not exceed specified ratings and control units are always recommended to prevent damage in the event other anchoring in this system fails. Properties applications shown throughout this data sheet are typical. This information does not constitute a warranty or representation and we assume no legal responsibility or obligation with respect thereto and the use to which such information may be put. Your specific application should not be undertaken without independent study and evaluation for suitability.



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