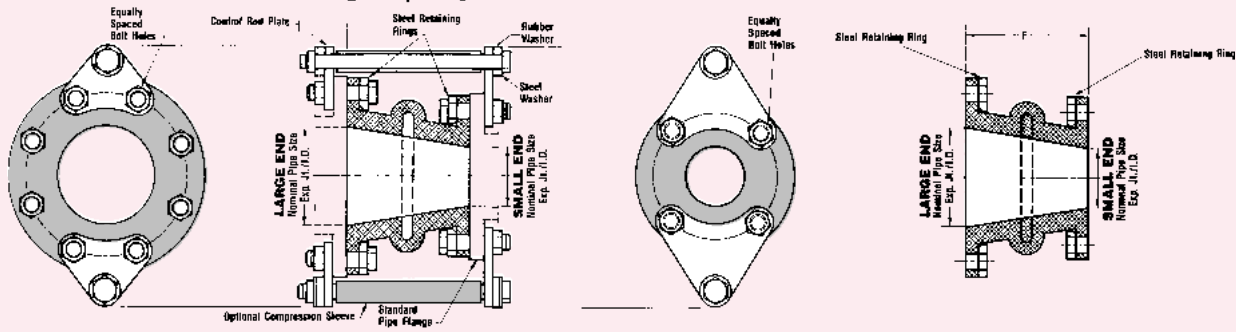


# concentric reducer expansion joints



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

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

Concentric Joint Size I.D. x I.D. x Length	Stock		RC-221 Open Arch Capacity: From Neutral Position							Weight/Pounds			Stock		RCFA-221 Filled Arch Capacity: From Neutral Position							Weight/Pounds			Pressure	
	/BB Butyl	/NN Neoprene	Axial Compression	Axial Extension	±Lateral Deflection	±Angular Deflection <sup>1</sup>	Torsional Movement <sup>2</sup>	Thrust Factor <sup>3</sup>	Expansion Joint Open Arch	Retaining Ring Set	Control Rod Set	/BB Butyl	/NN Neoprene	Axial Compression	Axial Extension	±Lateral Deflection	±Angular Deflection <sup>1</sup>	Torsional Movement <sup>2</sup>	Thrust Factor <sup>3</sup>	Expansion Joint Filled Arch	Retaining Ring Set	Control Rod Set	Positive Pressure PSIG	Vacuum In. Hg		
																									Inches	Inches
2 x 1 x 6	S	X	.25	.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	.25	.25	.5	15.9°	3°	14.32	3	3	6	X	S	.25	.125	.3	8.1°	1.8°	3.14	3	3	6	200	26		
2.5 x 1.5 x 6	S	X	.25	.25	.5	14.1°	3°	16.04	4	3	7	X	X	.25	.125	.3	7.2°	1.8°	4.97	4	3	7	200	26		
2.5 x 2 x 6	S	X	.25	.25	.5	12.5°	3°	17.87	3	4	7	S	X	.25	.125	.3	6.4°	1.8°	4.97	3	4	7	200	26		
3 x 1 x 6	X	X	.25	.25	.5	14.0°	3°	16.04	4	4	7	X	X	.25	.125	.3	6.4°	1.8°	7.06	4	4	7	200	26		
3 x 1.5 x 6	S	X	.25	.25	.5	12.5°	3°	17.87	4	4	7	S	X	.25	.125	.3	6.4°	1.8°	7.06	4	4	7	200	26		
3 x 2 x 6	S	X	.25	.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	.25	.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	.25	.25	.5	9.5°	3°	23.93	5	5	7	S	S	.25	.125	.3	4.8°	1.8°	12.57	5	5	7	200	26		
4 x 2 x 7	S	S	.25	.25	.5	9.5°	3°	23.93	5	5	7	X	S	.25	.125	.3	4.8°	1.8°	12.57	5	5	7	200	26		
4 x 2.5 x 6	S	S	.25	.25	.5	8.7°	3°	26.14	5	6	8	X	S	.25	.125	.3	4.4°	1.8°	12.57	5	6	8	200	26		
4 x 2.5 x 7	S	X	.25	.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	X	.25	.25	.5	8.1°	3°	28.46	6	6	8	X	S	.25	.125	.3	4.1°	1.8°	12.57	6	6	8	200	26		
4 x 3 x 7	S	X	.25	.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 3 x 6	S	X	.25	.25	.5	7.1°	3°	33.38	6	6	10	X	X	.25	.125	.3	3.6°	1.8°	19.63	6	6	10	190	26		
5 x 4 x 6	S	X	.25	.25	.5	6.3°	3°	38.70	8	7	10	X	S	.25	.125	.3	3.2°	1.8°	19.63	8	7	10	190	26		
5 x 4 x 8	S	X	.25	.25	.5	6.3°	3°	38.70	8	7	10	X	X	.25	.125	.3	3.2°	1.8°	19.63	8	7	10	190	26		
6 x 2 x 8	S	X	.25	.25	.5	7.1°	3°	33.38	8	6	12	X	S	.25	.125	.3	3.6°	1.8°	28.27	9	6	12	190	26		
6 x 2.5 x 6	S	X	.25	.25	.5	6.7°	3°	35.99	6	7	12	X	X	.25	.125	.3	3.4°	1.8°	28.27	6	7	12	190	26		
6 x 3 x 6	S	X	.25	.25	.5	6.3°	3°	38.70	7	7	12	X	X	.25	.125	.3	3.2°	1.8°	28.27	7	7	12	190	26		
6 x 3 x 9	S	X	.25	.25	.5	6.3°	3°	38.70	9	7	13	X	X	.25	.125	.3	3.2°	1.8°	28.27	10	7	13	190	26		
6 x 4 x 6	S	S	.25	.25	.5	5.7°	3°	44.41	8	7	11	X	S	.25	.125	.3	2.9°	1.8°	28.27	10	7	13	190	26		
6 x 4 x 8	S	X	.25	.25	.5	5.7°	3°	44.41	9	7	11	X	S	.25	.125	.3	2.9°	1.8°	28.27	8	7	11	190	26		
6 x 4 x 9	S	S	.25	.25	.5	5.7°	3°	44.41	11	7	11	X	X	.25	.125	.3	2.9°	1.8°	28.27	9	7	11	190	26		
6 x 5 x 6	S	S	.25	.25	.5	5.2°	3°	50.51	9	8	11	S	S	.25	.125	.3	2.6°	1.8°	28.27	9	8	11	190	26		
6 x 5 x 9	S	S	.25	.25	.5	5.2°	3°	50.51	12	8	12	X	X	.25	.125	.3	2.6°	1.8°	28.27	13	8	12	190	26		
8 x 3 x 6	S	X	.75	.375	.5	7.8°	3°	56.64	9	9	19	X	S	.375	.188	.3	3.9°	1.8°	50.27	10	9	19	190	26		
8 x 4 x 6	S	S	.75	.375	.5	7.1°	3°	63.51	10	9	19	S	S	.375	.188	.3	3.6°	1.8°	50.27	10	9	19	190	26		
8 x 4 x 8	S	X	.75	.375	.5	7.1°	3°	63.51	11	9	20	X	S	.375	.188	.3	3.6°	1.8°	50.27	12	9	20	190	26		
8 x 4 x 10	X	X	.75	.375	.5	7.1°	3°	63.51	15	9	21	X	X	.375	.188	.3	3.6°	1.8°	50.27	17	9	21	190	26		
8 x 4 x 11	S	X	.75	.375	.5	7.1°	3°	63.51	15	9	21	X	X	.375	.188	.3	3.6°	1.8°	50.27	17	9	21	190	26		
8 x 5 x 6	S	S	.75	.375	.5	6.6°	3°	70.77	10	10	18	X	X	.375	.188	.3	3.3°	1.8°	50.27	11	10	18	190	26		
8 x 5 x 11	S	S	.75	.375	.5	6.6°	3°	70.77	15	10	21	X	X	.375	.188	.3	3.3°	1.8°	50.27	16	10	21	190	26		
8 x 6 x 6	S	S	.75	.375	.5	6.1°	3°	78.42	12	10	18	S	S	.375	.188	.3	3.1°	1.8°	50.27	12	10	18	190	26		
8 x 6 x 8	S	S	.75	.375	.5	6.1°	3°	78.42	14	10	18	S	S	.375	.188	.3	3.1°	1.8°	50.27	14	10	18	190	26		
8 x 6 x 11	S	S	.75	.375	.5	6.1°	3°	78.42	18	10	20	X	S	.375	.188	.3	3.1°	1.8°	50.27	18	10	20	190	26		
10 x 5 x 8	S	X	.75	.375	.5	5.7°	3°	86.46	19	11	27	X	X	.375	.188	.3	2.9°	1.8°	78.54	21	11	27	190	26		
10 x 6 x 8	S	X	.75	.375	.5	5.4°	3°	94.90	15	11	26	X	S	.375	.188	.3	2.8°	1.8°	78.54	15	11	26	190	26		
10 x 6 x 12	S	X	.75	.375	.5	5.4°	3°	94.90	21	11	28	X	S	.375	.188	.3	2.8°	1.8°	78.54	22	11	28	190	26		
10 x 8 x 6	S	X	.75	.375	.5	4.8°	3°	112.95	14	13	25	X	S	.375	.188	.3	2.4°	1.8°	78.54	14	13	25	190	26		
10 x 8 x 8	S	X	.75	.375	.5	4.8°	3°	112.95	18	13	25	X	S	.375	.188	.3	2.4°	1.8°	78.54	20	13	25	190	26		
10 x 8 x 12	S	X	.75	.375	.5	4.8°	3°	112.95	20	13	28	X	X	.375	.188	.3	2.4°	1.8°	78.54	23	13	28	190	26		
12 x 6 x 8	S	S	.75	.375	.5	4.8°	3°	112.95	19	15	29	S	S	.375	.188	.3	2.4°	1.8°	113.10	22	15	29	190	26		
12 x 6 x 14	S	X	.75	.375	.5	4.8°	3°	112.95	30	15	31	X	X	.375	.188	.3	2.4°	1.8°	113.10	35	15	31	190	26		
12 x 8 x 6	S	S	.75	.375	.5	4.3°	3°	132.57	19	17	28	S	S	.375	.188	.3	2.2°	1.8°	113.10	19	17	28	190	26		
12 x 8 x 8	S	S	.75	.375	.5	4.3°	3°	132.57	24	17	29	S	S	.375	.188	.3	2.2°	1.8°	113.10	24	17	29	190	26		
12 x 8 x 14	S	X	.75	.375	.5	4.3°	3°	132.57	30	17	30	X	X	.375	.188	.3	2.2°	1.8°	113.10	35	17	30	190	26		
12 x 10 x 8	S	S	.75	.375	.5	3.9°	3°	153.77	23	18	24	S	S	.375	.188	.3	1.9°	1.8°	113.10	24	18	24	190	26		
12 x 10 x 14	S	X	.75	.375	.5	3.9°	3°	153.77	35	18	26	X	X	.375	.188	.3	1.9°	1.8°	113.10	38	18	26	190	26		
14 x 8 x 8	S	X	.75	.375	.5	3.9°	2°	177.09	22	18	29	X	X	.375	.188	.3	1.9°	1.2°	153.94	22	18	29	130	26		
14 x 10 x 8	S	X	.75	.375	.5	3.6°	2°	201.46	30	19	29	S	S	.375	.188	.3	1.8°	1.2°	153.94	32	19	29	130	26		
14 x 10 x 10	X	X	.75	.375	.5	3.6°	2°	201.46	31	19	30	X	X	.375	.188	.3	1.8°	1.2°	153.94	25	19	30	130	26		
14 x 12 x 8	S	S	.75	.375	.5	3.3°	2°	227.40	32	23	27	S	X	.375	.188	.3	1.7°	1.2°	153.94	33	23	27	130	26		
16 x 10 x 8	S	X	.75	.375	.5	3.3°	2°	227.40	31	21	36	S	X	.375	.188	.3	1.7°	1.2°	201.06	31	21	36	110	26		
16 x 10 x 10	X	X	.75	.375	.5	3.3°	2°	227.40	34	21	39	X	X	.375	.188	.3	1.7°	1.2°	201.06	35	21	39	110	26		
16 x 12 x 8	S	X	.75	.375	.5	3.1°	2°	254.92	36	25	36	S	S	.375	.188	.3	1.5°	1.2°	201.06	39	25	36	110	26		
16 x 14 x 8	S	X	.75	.375	.5	2.9°	2°	284.00	38	26	37	S	S	.375	.188	.3	1.4°	1.2°	201.06	42	26	37	110	26		
18 x 12 x 8	S	X	.75	.375	.5	2.9°	1°	284.00	37	26	37	S	X	.375	.188	.3	1.4°	0.6°	254.47	37	26	37	110	26		
18 x 12 x 12	X	X	.75	.375	.5	2.9°	1°	284.00	41	27	42	X	X	.375	.188	.3	1.4°	0.6°	254.47	41	27	42	110	26		
18 x 14 x 8	S	X	.75	.375	.5	2.7°	1°	314.65	41	27	37	X	S	.375	.188	.3	1.3°	0.6°	254.47	41	27					