

# series 240 single sphere expansion joints

**Table 2: Sizes • Movements • Pressures • Flange Standards • Weights**

NOMINAL PIPE	PROCO	240 Movement Capability: From Neutral Position <sup>2</sup>						Pressure <sup>4</sup>		Standard Flange Bolting Dimensions					Weight in lbs <sup>8</sup>			
		Size I.D.	Neutral Length	Style Number <sup>1</sup>	Axial Compression Inches	Axial Extension Inches	Lateral Deflection Inches	Angular Deflection Degrees	Thrust <sup>3</sup> Factor	Positive <sup>5</sup> PSIG	Vacuum <sup>6</sup> Inches of Hg	Flange O.D. Inches	Bolt Circle Inches	Number of Holes	Size of Holes Inches	Bolt Hole <sup>7</sup> Thread	Exp. Joint & Flanges	Control Unit Set (2 Rod)
<b>1</b>	<b>240-AV</b>	6.00	240-AV	0.500	0.375	0.500	37	4.43	225	26	4.25	3.13	4	0.625	1/2-13 UNC	3.8	3.3	
<b>1.25</b>	240-D	3.74	240-D	0.312	0.188	0.312	17	6.34	235	26	4.63	3.5	4	0.625	—	4.6	3.3	
	240-C	5.00	240-C	1.063	1.250	1.188	45		225	21				0.625	—			5.0
	240-E	5.00	240-E	0.500	0.375	0.500	31		225	26				0.625	—			5.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.500	0.375	0.500	31		225	26				0.625	1/2-13 UNC			5.0
<b>1.5</b>	240-D	3.74	240-D	0.375	0.188	0.312	14	6.49	225	26	5.0	3.88	4	0.625	—	5.4	4.6	
	240-M	4.00	240-M	0.375	0.188	0.312	14		225	26				0.625	—			5.5
	240-C	5.00	240-C	1.063	1.250	1.188	45		235	18				0.625	—			5.1
	240-E	5.00	240-E	0.500	0.375	0.500	27		225	26				0.625	—			6.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.500	0.375	0.500	27		225	26				0.625	1/2-13 UNC			6.1
<b>2</b>	240-M	4.00	240-M	0.375	0.188	0.312	11	7.07	225	26	6.0	4.75	4	0.750	—	8.3	6.3	
	240-D	4.13	240-D	0.375	0.188	0.312	11		225	26				0.750	—			8.5
	240-C	5.00	240-C	1.063	1.250	1.188	45		235	18				0.750	—			7.1
	240-E	5.00	240-E	0.375	0.375	0.500	20		225	26				0.750	—			8.5
	240-A	6.00	240-A	1.188	1.188	1.188	45		235	18				0.750	—			7.1
	240-HW	6.00	240-HW	0.500	0.375	0.500	20		300	26				0.750	—			11.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.500	0.375	0.500	20		225	26				0.750	5/8-11 UNC			12.3
<b>2.5</b>	240-M	4.00	240-M	0.375	1.188	0.375	8	11.05	225	26	7.0	5.5	4	0.750	—	12.0	7.6	
	240-D	4.53	240-D	0.500	0.250	0.375	11		225	26				0.750	—			12.3
	240-C	5.00	240-C	1.063	1.250	1.188	45		235	18				0.750	—			10.6
	240-E	5.00	240-E	0.500	0.375	0.500	17		225	26				0.750	—			12.0
	240-A	6.00	240-A	1.188	1.188	1.188	43		235	18				0.750	—			12.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.500	0.375	0.500	17		225	26				0.750	5/8-11 UNC			12.3
<b>3</b>	240-C	5.00	240-C	1.063	1.250	1.188	40	13.36	235	15	7.5	6.0	4	0.750	—	13.3	8.3	
	240-E	5.00	240-E	0.375	0.375	0.500	14		225	26				0.750	—			14.0
	240-D	5.14	240-D	0.500	0.375	0.500	14		225	26				0.750	—			14.0
	240-A	6.00	240-A	1.188	1.188	1.188	38		235	15				0.750	—			13.8
	240-HW	6.00	240-HW	0.500	0.375	0.500	14		300	26				0.750	—			17.5
	<b>240-AV</b>	8.00	<b>240-AV</b>	0.500	0.375	0.500	14		225	26				0.750	5/8-11 UNC			14.0
<b>3.5</b>	<b>240-AV</b>	6.00	<b>240-AV</b>	0.500	0.375	0.500	12	18.67	225	26	8.5	7.0	8	0.750	5/8-11 UNC	17.6	7.4	
	<b>240-AV</b>	8.00	<b>240-AV</b>	0.500	0.375	0.500	14	225	26	0.750	5/8-11 UNC	19.3						
<b>4</b>	240-C	5.00	240-C	1.063	1.250	1.188	32	22.69	235	15	9.0	7.5	8	0.750	—	16.5	7.4	
	240-E	5.00	240-E	0.750	0.500	0.500	14		225	26				0.750	—			17.0
	240-D	5.32	240-D	0.750	0.500	0.500	14		225	26				0.750	—			17.1
	240-A	6.00	240-A	1.188	1.188	1.188	30		235	15				0.750	—			17.5
	240-HW	6.00	240-HW	0.750	0.500	0.500	14		300	26				0.750	—			26.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.750	0.500	0.500	14		225	26				0.750	5/8-11 UNC			18.3
	<b>240-AV</b>	8.00	<b>240-AV</b>	0.750	0.500	0.500	14		225	26				0.750	5/8-11 UNC			19.3
<b>5</b>	240-C	5.00	240-C	1.063	1.250	1.188	27	30.02	235	10	10.0	8.5	8	0.875	—	20.3	8.3	
	240-E	5.00	240-E	0.750	0.500	0.500	11		225	26				0.875	—			22.0
	240-A	6.00	240-A	1.188	1.188	1.188	25		235	10				0.875	—			21.8
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.750	0.500	0.500	11		225	26				0.875	3/4-10 UNC			22.8
	240-D	6.69	240-D	0.750	0.500	0.500	11		225	10				0.875	—			23.6
	<b>240-AV</b>	8.00	<b>240-AV</b>	0.750	0.500	0.500	11		225	26				0.875	3/4-10 UNC			25.0
<b>6</b>	240-C	5.00	240-C	1.063	1.250	1.188	23	41.28	225	8	11.0	9.5	8	0.875	—	22.6	10.4	
	240-E	5.00	240-E	0.750	0.500	0.500	9		225	26				0.875	—			26.0
	240-A	6.00	240-A	1.188	1.188	1.188	21		235	10				0.875	—			24.0
	240-HW	6.00	240-HW	0.750	0.500	0.500	9		300	26				0.875	—			39.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.750	0.500	0.500	9		225	26				0.875	3/4-10 UNC			26.8
	240-D	7.09	240-D	0.750	0.500	0.500	9		225	26				0.875	—			29.0
	<b>240-AV</b>	8.00	<b>240-AV</b>	0.750	0.500	0.500	9		225	26				0.875	3/4-10 UNC			29.1
<b>8</b>	240-C	5.00	240-C	1.063	1.188	1.188	17	63.62	235	8	13.5	11.75	8	0.875	—	35.5	13.4	
	240-E	5.00	240-E	0.750	0.500	0.500	7		225	26				0.875	—			40.0
	240-A	6.00	240-A	1.188	1.188	1.188	16		235	8				0.875	—			38.5
	240-HW	6.00	240-HW	0.750	0.500	0.500	7		300	26				0.875	—			70.0
	<b>240-AV</b>	6.00	<b>240-AV</b>	0.750	0.500	0.500	7		225	26				0.875	3/4-10 UNC			40.6
	240-D	8.07	240-D	1.000	0.563	0.875	8		225	26				0.875	—			41.3
<b>10</b>	240-C	5.00	240-C	1.063	1.188	1.188	14	103.87	235	6	16.0	14.25	12	1.000	—	49.3	21.0	
	240-E	5.00	240-E	1.000	0.625	0.750	7		225	26				1.000	—			56.0
	240-A	8.00	240-A	1.188	1.188	1.188	13		235	6				1.000	—			53.6
	<b>240-AV</b>	8.00	<b>240-AV</b>	1.000	0.625	0.750	7		225	26				1.000	7/8-9 UNC			56.6
	240-HW	8.00	240-HW	1.000	0.625	0.750	7		225	26				1.000	7/8-9 UNC			57.0
	240-D	9.45	240-D	1.000	0.625	0.875	7		225	26				1.000	—			56.0
	<b>240-AV</b>	10.00	<b>240-AV</b>	1.000	0.625	0.750	7		225	26				1.000	7/8-9 UNC			58.5
	<b>240-AV</b>	10.00	<b>240-AV</b>	1.000	0.625	0.750	7		225	26				1.000	7/8-9 UNC			60.5
<b>12</b>	240-C	5.00	240-C	1.063	1.250	1.188	12	137.89	235	6	19.0	17.0	12	1.000	—	73.4	26.5	
	240-E	5.00	240-E	1.000	0.625	0.750	6		225	26				1.000	—			74.0
	240-A	8.00	240-A	1.188	1.188	1.188	11		235	6				1.000	—			80.0
	240-HW	8.00	240-HW	1.000	0.625	0.750	6		225	26				1.000	—			100.0
	<b>240-AV</b>	8.00	<b>240-AV</b>	1.000	0.625	0.750	6		225	26				1.000	7/8-9 UNC			83.0
	240-D	10.24	240-D	1.000	0.625	0.875	6		225	26				1.000	—			88.0
<b>14</b>	240-HW	8.00	240-HW	1.000	0.625	0.750	5	182.65	200	26	21.0	18.75	12	1.125	—	162.0	28.0	
	<b>240-AV</b>	8.00	<b>240-AV</b>	1.000	0.625	0.750	5		150	26				1.125	—			115.0
	240-M	9.00	240-M	1.000	0.625	0.750	5		150	26				1.125	—			117.0
	240-D	10.43	240-D	1.000	0.625	0.875	5		150	26				1.125	—			120.0
<b>16</b>	240-C	8.00	240-C	1.000	1.063	1.188	8	240.53	145	6	23.5	21.25	16	1.125	—	136.0	26.8	
	240-HW	8.00	240-HW	1.000	0.625	0.750	4		175	26				1.125	—			186.0
	<b>240-AV</b>	8.00	<b>240-AV</b>	1.000	0.625	0.750	4		125	26				1.125	—			165.0
	240-M	9.00	240-M	1.000	0.625	0.750	4		125	26				1.125	—			168.0
	240-D	10.43	240-D	1.000	0.625	0.975	4		125	26				1.125	—			170.0
<b>18</b>	240-HW	8.00	240-HW	1.000	0.625	0.750	4	298.65	175	26	25.0	22.75	16	1.250	—	209.0	31.4	
	<b>240-AV</b>	8.00	<b>240-AV</b>	1.000	0.625	0.750	4		125	26				1.250	—			168.0
	240-M	9.00	240-M	1.000	0.625	0.750	4		125	26				1.250	—			169.0
	240-D	10.43	240-D	1.000	0.625	0.875	4		125	26				1.250	—			170.0
<b>20</b>	240-C																	