

Table 2: Sizes • Movements • Forces • Weights

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EXPANSION JOINT SIZE Nom. I.D. X Inch / (mm)	NEUTRAL LENGTH Inch / (mm)	EXPANSION JOINT STYLE	231 / 221 Movement Capability: From Neutral Position					Spring Rate Capability Based on 1" of Movement at Zero Pressure Conditions					Operating ⁴ Conditions		Weights ⁵ lbs / (kgs)				
			Axial Compression Inch / (mm)	Axial Extension Inch / (mm)	Lateral Deflection Inch / (mm)	Angular, ¹ Deflection Degrees	Torsional, ² Rotation Degrees	Force lbs per 1" rated Compression	Force lbs per 1" rated Extension	Force lbs per 1" rated Lateral Deflection	Force lbs per 1" rated Angular	Thrust Factor ³ Inz / (cm ²)	Positive PSIG/ (Bar)	Vacuum Inches of Hg/ (mm of Hg)	Expansion Joint Assembly	Retaining Ring Set	Control ⁶ Rod Assembly		
16 (400)	8 (203)	231																	
	9 (229)	231																	
	10 (254)	231	1.6 (40)	0.8 (20)	0.8 (20)	5.7	2.0			264.74 (1708)	115 (8.0)	26 (660)	47.0 (21.3)	33.5 (15.2)	15.0 (6.8)				
	12 (305)	231																	
	14 (356)	231																	
18 (450)	8 (203)	231																	
	9 (229)	231																	
	10 (254)	231	1.6 (40)	0.8 (20)	0.8 (20)	5.1	2.0			325.50 (2100)	115 (8.0)	26 (660)	56.0 (25.4)	34.0 (15.5)	16.0 (7.2)				
	12 (305)	231																	
	14 (356)	231																	
20 (500)	8 (203)	231																	
	9 (229)	231																	
	10 (254)	231	1.6 (40)	0.8 (20)	0.8 (20)	5.7	2.0			392.62 (2533)	115 (8.0)	26 (660)	67.0 (30.4)	38.0 (17.3)	16.0 (7.2)				
	12 (305)	231																	
	14 (356)	231																	
22 (550)	8 (203)	221	0.8 (20)	0.5 (13)	0.5 (13)	2.6	2.0			483.08 (3117)	100 (7.0)	26 (660)	70.0 (31.8)	44.0 (20.0)	19.0 (8.6)				
	9 (229)	221																	
22 (550)	10 (254)	231																	
	12 (305)	231	2.0 (51)	1.0 (25)	1.0 (25)	5.2	2.0			481.12 (3104)	100 (7.0)	26 (660)	70.0 (31.8)	44.0 (20.0)	19.0 (8.6)				
	14 (356)	231																	
24 (600)	8 (203)	221	0.8 (20)	0.5 (13)	0.5 (13)	2.3	2.0			562.82 (3631)	100 (7.0)	26 (660)	79.0 (35.8)	48.0 (21.8)	19.0 (8.6)				
	9 (229)	221																	
24 (600)	10 (254)	231																	
	12 (305)	231	2.0 (51)	1.0 (25)	1.0 (25)	4.8	2.0			562.03 (3626)	100 (7.0)	26 (660)	79.0 (35.8)	48.0 (21.8)	20.0 (9.0)				
	14 (356)	231																	
26 (650)	10 (254)	231																	
	12 (305)	231	2.0 (51)	1.0 (25)	1.0 (25)	4.4	2.0			649.14 (4188)	90 (6.0)	26 (660)	100.0 (45.4)	51.0 (23.1)	20.0 (9.0)				
	14 (356)	231																	
28 (700)	10 (254)	231																	
	12 (305)	231	2.0 (51)	1.0 (25)	1.0 (25)	4.1	2.0			742.45 (4790)	90 (6.0)	26 (660)	102.0 (46.3)	55.0 (25.0)	28.0 (12.6)				
30 (750)	14 (356)	231																	
	9 (229)	221	0.9 (23)	0.6 (15)	0.5 (13)	2.2	2.0			798.58 (5152)	90 (6.0)	26 (660)	117.0 (53.1)	63.0 (28.6)	29.5 (13.3)				
30 (750)	10 (254)	231																	
	12 (305)	231	2.0 (51)	1.0 (25)	1.0 (25)	3.8	2.0			842.27 (5434)	90 (6.0)	26 (660)	117.0 (53.1)	63.0 (28.6)	29.5 (13.3)				
	14 (356)	231																	

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