

PROCO

STYLE

231/221

**single wide arch spool type
rubber expansion joints**



Table 2: Sizes • Movements • Forces • Weights

See Notes Page 7

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 ft-lbs per 1° rated Angular	Thrust Factor ³ In ² / (cm ²)	Positive PSIG / (Bar)	Vacuum Inches of Hg/ (mm of Hg)	Expansion Joint Assembly	Retaining Ring Set	Control ⁶ Rod Assembly			
1	(25)	6 (152)	231	1.2 (30)	0.6 (15)	0.6 (15)	50.4	2.0	U	N	D	E	R	5.12 (33)	200 (14.0)	26 (660)	2.0 (0.8)	2.0 (0.8)	2.3 (1.0)		
1.25	(32)	6 (152)	231	1.2 (30)	0.6 (15)	0.6 (15)	43.1	2.0						6.20 (40)	200 (14.0)	26 (660)	2.5 (1.1)	2.5 (1.1)	2.3 (1.0)		
1.5	(40)	6 (152)	231	1.2 (30)	0.6 (15)	0.6 (15)	38.1	2.0						7.44 (48)	200 (14.0)	26 (660)	3.0 (1.4)	2.5 (1.1)	2.3 (1.0)		
2	(50)	6 (152)	231	1.4 (35)	0.7 (18)	0.6 (15)	34.2	2.0		C	U	R	E	R	12.40 (80)	200 (14.0)	26 (660)	4.0 (1.8)	4.0 (1.8)	2.8 (1.3)	
		7 (178)	231																		
		8 (203)	231																		
		9 (229)	231							T	E	N	T	T	15.66 (101)	200 (14.0)	26 (660)	4.5 (2.0)	4.5 (2.0)	2.8 (1.3)	
		10 (254)	231																		
		12 (305)	231																		
2.5	(65)	6 (152)	231	1.4 (35)	0.7 (18)	0.6 (15)	27.6	2.0		C	U	R	E	R							
		7 (178)	231																		
		8 (203)	231																		
		9 (229)	231							T	E	N	T	T							
		10 (254)	231																		
		12 (305)	231																		
3	(80)	6 (152)	231	1.4 (35)	0.7 (18)	0.6 (15)	23.0	2.0		C	U	R	E	R							
		7 (178)	231																		
		8 (203)	231																		
		9 (229)	231							T	E	N	T	T							
		10 (254)	231																		
		12 (305)	231																		
3.5	(90)	6 (152)	221	0.6 (15)	0.3 (8)	0.56 (14)	9.0	2.0		T	E	N	T	T							
		7 (178)	221																		
		8 (203)	221																		
		9 (229)	221							T	E	N	T	T							
		10 (254)	221																		
		12 (305)	221																		
4	(100)	6 (152)	231	1.4 (35)	0.7 (18)	0.6 (15)	18.8	2.0		T	I	N	G	T							
		7 (178)	231																		
		8 (203)	231																		
		9 (229)	231							T	I	N	G	T							
		10 (254)	231																		
		12 (305)	231																		

Series 231
Part No. 6110

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