wide-arch expansion joints

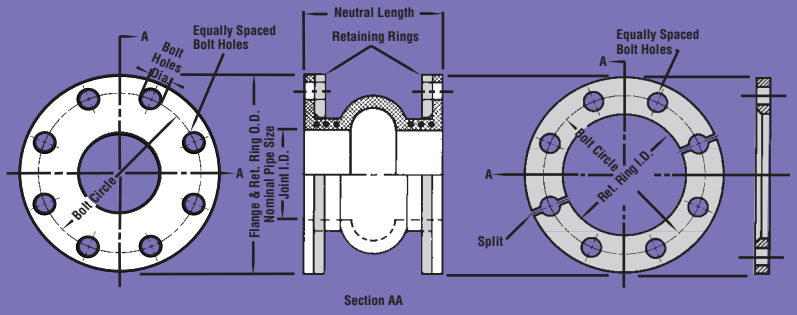


Figure 1: Detail Of Style 251

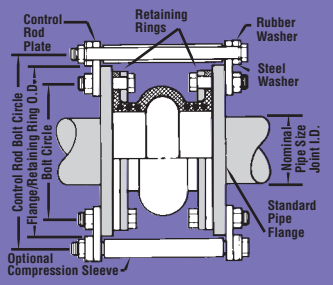
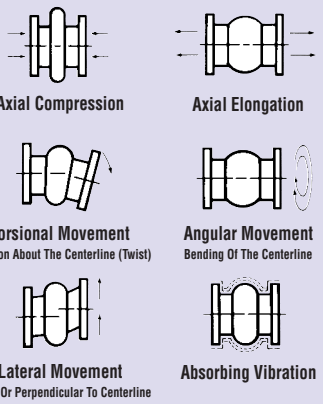


Table 2: Sizes • Movements • Pressures • Weights • Drilling

EXPANSION JOINT SIZE Nom. I.D. x Inch / (mm)		NEUTRAL LENGTH Inch / (mm)		251 Movement Capability: From Neutral Position						Operating Conditions [4]		Weights in lbs / (kgs) [5]			Flange Dimensions and Drilling [7]			
				Axial Compression Inch / (mm)	Axial Extension Inch / (mm)	Lateral Deflection Inch / (mm)	Angular [1] Deflection Degrees	Torsional [2] Deflection Degrees	Thrust Factor [3] In2 / (cm2)	Positive PSIG / (Bar)	Vacuum Inches of Hg / (mm of Hg)	Joint Assembly	Retaining Ring Set	Control Unit [6] Assembly	O.D. of Exp. Joint / Ring Inch / (mm)	Bolt Circle Inch / (mm)	Number of Holes	Size of Holes Inch / (mm)
1	(25)	6	(150)	USE SERIES 231 PRODUCT AT THIS TIME														
1.25	(32)																	
1.5	(40)																	
2	(50)			1.06 (27)	.47 (12)	.59 (15)	25.2°	3°	3.1 (20)	200 (14.0)	26 (660)	2.9 (1.3)	4.0 (1.8)	2.8 (1.3)	6.0 (152.4)	4.75 (120.65)	4	0.750 (19.05)
2.5	(65)				.47 (12)	.59 (15)	20.6°	3°	4.9 (32)	200 (14.0)	26 (660)	3.5 (1.6)	4.5 (2.0)	2.8 (1.3)	7.0 (177.8)	5.50 (139.70)	4	0.750 (19.05)
3	(80)				.47 (12)	.59 (15)	17.4°	3°	7.1 (46)	200 (14.0)	26 (660)	4.3 (2.0)	5.5 (2.5)	2.8 (1.3)	7.5 (190.5)	6.00 (152.40)	4	0.750 (19.05)
4	(100)				.47 (12)	.59 (15)	13.2°	3°	12.6 (81)	200 (14.0)	26 (660)	5.7 (2.6)	8.0 (3.6)	2.8 (1.3)	9.0 (228.6)	7.50 (190.50)	8	0.750 (19.05)
5	(125)				.53 (14)	.66 (17)	12.0°	3°	19.6 (127)	200 (14.0)	26 (660)	7.0 (3.2)	8.5 (3.9)	4.0 (1.8)	10.0 (254.0)	8.50 (215.90)	8	0.875 (22.23)
6	(150)				.59 (15)	.74 (19)	11.1°	3°	28.3 (182)	200 (14.0)	26 (660)	8.2 (3.7)	9.5 (4.3)	4.0 (1.8)	11.0 (279.4)	9.50 (241.30)	8	0.875 (22.23)
8	(200)				.59 (15)	.74 (19)	8.4°	3°	50.3 (324)	180 (13.0)	26 (660)	11.7 (5.3)	14.5 (6.6)	8.0 (3.6)	13.5 (342.9)	11.75 (298.45)	8	0.875 (22.23)
10	(250)	8	(200)	1.65 (42)	.71 (18)	.89 (23)	8.1°	3°	78.5 (507)	150 (10.0)	26 (660)	20.1 (9.1)	17.0 (7.7)	10.0 (4.5)	16.0 (406.4)	14.25 (361.95)	12	1.000 (25.40)
12	(300)				.77 (19)	.96 (24)	7.3°	3°	113.1 (730)	150 (10.0)	26 (660)	27.8 (12.6)	24.5 (11.0)	10.0 (4.5)	19.0 (482.6)	17.00 (431.80)	12	1.000 (25.40)
14	(350)				.75 (19)	.96 (24)	6.3°	2°	153.9 (993)	130 (9.0)	26 (660)	40.0 (18.1)	27.0 (12.3)	12.0 (5.4)	21.0 (533.4)	18.75 (476.25)	12	1.125 (28.58)
16	(400)				.75 (19)	.96 (24)	5.9°	2°	201.1 (1297)	110 (8.0)	26 (660)	47.0 (21.3)	33.5 (15.2)	15.0 (6.8)	23.5 (596.9)	21.25 (539.75)	16	1.125 (28.58)
18	(450)				.75 (19)	1.0 (25)	5.3°	1°	254.5 (1642)	110 (8.0)	26 (660)	56.0 (25.4)	34.0 (15.5)	16.5 (7.2)	25.0 (635.0)	22.75 (577.85)	16	1.250 (31.75)
20	(500)				.75 (19)	1.0 (25)	4.8°	1°	314.2 (2027)	110 (8.0)	26 (660)	67.0 (30.4)	38.0 (17.3)	16.5 (7.2)	27.5 (698.5)	25.00 (635.00)	20	1.250 (31.75)
24	(600)	10	(250)	1.75 (42)	.83 (21)	1.0 (25)	3.9°	1°	452.4 (2919)	100 (7.0)	26 (660)	79.0 (35.9)	48.0 (21.8)	19.0 (8.6)	32.0 (812.8)	29.50 (749.30)	20	1.375 (34.93)
30	(750)				1.0 (25)	1.0 (25)	3.8°	1°	706.9 (4560)	90 (6.0)	26 (660)	117.0 (53.1)	63.0 (28.6)	29.5 (13.3)	38.8 (984.3)	36.00 (914.40)	28	1.375 (34.93)

Notes:
1. The degree of angular movement is based on the maximum rated extension.
2. Torsional movement is expressed when the expansion joint is a neutral length.
3. To determine "end thrust", multiply thrust factor by operating pressure of system.
4. Pressure rating is based on 170°F operating temperature. At higher temperature the pressure rating is slightly reduced.
5. Weights are approximate.
6. Control unit weight consists of one rod, four washers, three nuts and two control rod plates. Multiply number of control units needed for application (as specified in the Fluid Sealing Association Technical Handbook) to determine correct weights.
7. Dimensions shown are in accordance with 125/150# standards of ANSI B-16.1, B-16.24, B-16.5; AWWA C-207 Table 1 and 2 Class D.

PROCO™ Series 251 Products Are Designed To Absorb Different Movements Concurrently.



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