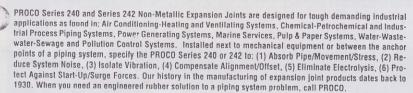
## 240/24

0



Spherical Shapes-Stronger-More Efficient. Featuring an engineered molded style single or twin sphere designed bellows, the PROCO Series 240 and Series 242 are inherently stronger than the conventional hand-built Spool Type arch. Internal pressure within a sphere is exerted in all directions, distributing forces evenly over a larger area The spheri-cal design "flowing-arch" reduces turbulence, sediment buildup, thrust area and the effects of thrust on the piping system equipment when compared to the "high-arch" design of hand-built standard products

Greater Movements Are Available with the PROCO Series 240 and Series 242 when compared to the movements of conventional hand-built products. Axial compression, elongation, deflection and angular movements in the system are more readily absorbed by spherical types. These products are more forgiving and can be compressed or extended to install in non-standard openings, caused by equipment shifting or settling (Pre-compressing/extending the expansion joints for installation, may result in reduced pressure, vacuum and movement capabilities of the expansion joints. See Tables 2 and 3.)

Easy Installation With Alignable Metallic Flanges. The floating metallic flanges freely rotate on the bellows, compensating for mating flange misalignment, thus speeding up installation time (see Figures 1, 2, 3 & 4). Gaskets are also not required with the Series 240 or Series 242, provided the expansion joints are mated against a flat face flange as required in the installation instructions.

Less System Strain With Thin Wall Design. Manufactured by high pressure molding of elastomer and high-tensile fabric reinforcement, the Series 240 and Series 242 have a thinner wall section and lighter weight when compared to conventional hand-built products. Lower spring forces are therefore required, reducing piping/flange/equipment stress-strain-damage. PROCO Styles 240-C and 240-A are acceptable for use with plastic piping systems where even lower deflection forces are required.

Specifications Met. The PROCO Series 240 and Series 242 are designed to meet or exceed the pressure, movement and dimensional rating of the Spool Type arch as shown in the Rubber Expansion Joint Division, Fluid Sealing Association "Technical Handbook" Sixth Edition" Tables IV & V.

Toble 1. Available Chile

Absorbs Vibration-Noise-Shock. The PROCO quiet operating Series 240 and Series 242 are a replacement for "sound transmitting" metallic expansion joints. Sound loses energy traveling axially through the elastomer bellows. Water hammer pumping impulses and water-borne noises are cushioned and absorbed by the molded lightweight thin-wall structure. Install the Series 240 or Series 242 in a system to enable isolated equipment to move freely on its vibration mountings; or to reduce vibration transmission when the piping section beyond the expansion joint is anchored or sufficiently rigid.

Flange Materials/Drilling. All PROCO Spherical 240 and 242 connectors are furnished complete with plated carbon steel flanges for corrosion protection. Series 240 and 242 Neoprene connectors — 12\* and below — are tapped to ANSI 125/150# drilling. All other connectors come with standard drilled holes to the ANSI 125/150# standards (see Table 7 and Figures 3 & 4). Stainless steel flanges and other drilling standards such as: ANSI 250/300#, BS-10, DIN NP-10 and DIN NP-16 are also available from stock and are listed on Table 7. JIS-5K and JIS-10K are also available upon request.

Chemical Service Capability At Minimal Cost. Expensive, exotic metal expansion joints for ciremical service can be replaced with the PROCO Series 240 or Series 242. Molded with low cost chemical resistant elastomers such as Neoprene, Nitrile, Hypalon®, EPDM and Chlorobutyl insures an expansion joint is compatible with the fluid being pumped or piped. (See Table 1 below). Use the PROCO "Chemical/Rubber Guide" to specify an elastomer recommendation compatible for your requirement.

Wide Service Range With Low Cost. Engineered to operate up to 300 PSIG and 265°F, the PROCO Series 240 and Series 242 can be specified for a wide range of piping requirements. Compared to conventional hand-built Spool Type arch, you will invest less money when specifying the mass-produced, consistent high quality, molded single or twin sphere expansion joints

Large Inventories Mean Same-Day Shipment. PROCO maintains the largest inventory of spherical expansion joints in the Americas. Every size listed is in stock in several elastomers and comes with a choice of drilling patterns. Shipment is based on customer need. PROCO can ship same day as order placement. In fact, when it comes to rubber expansion joints, if PROCO doesn't have your requirement...nobody does!

Information • Ordering • Pricing • Delivery. Day or night, weekends and holidays ... the PROCO phones are monitored 24 hours around the clock. When you have a question, you can call us.

Toll-Free Phone 800 / 344-3246 USA/CANADA International Calls 209 / 943-6088 209 / 943-0242 E-mail sales@procoproducts.com Website ..... www.procoproducts.com

Weekday office hours are 5:30 a.m. to 5:15 p.m. (Pacific Time)

For S	Specific	Elaston		ne Styles • Materials PROCO™ "Chemical To Elastomer Guide"													
240-A	240-C	240-AV,D,E,M	242-A,B,C	PROCOTI Material Code 1	Cover Electioner 2	Tube Eastomer	Maximum Operating Temp. °F	Identifying Golor Band/Label									
	X X X	X	X	/BB /EE /EE-9 /ET-9 <sup>8</sup> /HH	Chlorobutyl EPDM EPDM EPDM Hypalon	Chlorobutyl EPDM EPDM Teffon* Hypalon*	250° 250° 265° 265° 230°	Black Red Red Red Green									
×	X X	X X X	X X X	/NH /NJ /NN /NP /NT 3	Neoprene Neoprene Neoprene Neoprene Neoprene	Hypalon* FDA-Nitrile Neoprene Nitrile Tellon*	230° 230° 230° 230° 230°	Green White Blue Yellow									

NOTES Hypation\* is a registered trademark of DuPont Dow Elastomers. Tellion\* is a registered trademark of the DuPont Company

1. All elastomers include nylon reinforcing, except EE-9 which is steel cord.
All materials meet or exceed the Rubber Expansion Joint Division, Fluid Sealing Association-REJ Division requirements Standard Class 1 and II. EE-9 also meets Special Class II. For more information see The FSA Technical Handbook, Table Materials NN, IPP and NH meet all requirements of U.S.C.G.

EPDM Materials good for unto 300 F for pressures 15 PSI or less.

2 Expansion junit "cover" (outside) can be Hypation\* painted on special order.

3 Products with Tellion\*\* Tube\* (inside) are not to be used for vacuum service.

Protecting Piping And Equipment Systems From Stress/Motion

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

,	Table 2: S	izes • Mo	vements •															
	NOMINAL PIPE		PROCO	240 Movement Capability: From Neutral Position <sup>2</sup>				Press		Sta	andard Fla	inge Bol	Weight in lbs <sup>8</sup>					
	Size I.D.	Neutral Length	Style Number <sup>1</sup>	Axial Compression Inches	And the state of t	Lateral Codecidos Inches	Angelar Deflection Degrees	Median .	Positive Positi	Vacuum f Inches telli	Fange 0.0. Inches	Bolf Circle larches	Number of Holes	Size of Hole Inches	Bolt Hale 7 Thread	Exp. Joint & Flanges	Control Unit Sel (Z.Rod)	- AESA
	1.25	5.00 3.74 5.00 5.00 8.00	240-0 240-0 240-E 240-E 240-AV	0.312 1,063 ,500	0.375 0.188 1.250 0.375 0.375	0.312 1.188 0.500 0.500	37 17 45 31	6,94	225 235 226 225 225	26 26 21 26 26	4.83	3.13		0.625 0.625 0.625 0.625 0.625	1/2-13 UNC	3.8 4.6 5.0 5.0 5.0	3.3	
	1.5	3 74 4 00 5 00 5 00 6 00	240-D 240-M 240-C 240-E 240-AV	0 375 0 375 1 063 0 500 0 500	0 188 0 188 1 250 0 375 0 375	0 312 0 312 1 188 0 500 0 500	14 14 45 27 27	6 49	225 225 235 225 225 225	26 26 18 26 26	5 0	3 88	4	0 625 0 625 0 625 0 625 0 625 0 625	1/2-13 UNC	5.4 5.5 5.1 6.0 6.1	4.6	
	2	4.00 4.13 5.00 5.00 6.00 6.00 6.00	240-M 240-D 240-C 240-E 240-A 240-HW 240-AV	0.375 0.375 1.063 0.375 1.188 0.500 0.500	0.188 0.188 1.250 0.375 1.188 0.375 0.375	0.312 0.312 1.188 0.500 1.188 0.500 0.500	11 11 45 20 45 20 20	7.07	225 225 235 225 235 235 300 225	26 26 18 26 18 26 26 26	6.0	4.75		0.750 0.750 0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	8.3 8.5 7.1 8.5 7.1 11.0 12.3	6.3 6.3 6.3 6.3 7.6 7.6 7.6	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW
	2.5	4 00 4 53 5 00 5 00 6 00 6.00	240-M 240-D 240-C 240-E 240-A 240-AV	0 375 0 500 1 063 0 500 1 188 0 500	1 188 0 250 1 250 0 375 1 188 0 375	0.375 0.375 1.188 0.500 1.188 0.500	8 11 45 17 43 17	11 05	225 225 235 225 235 235 225	26 26 18 26 18 26	7.0	5 5	4	0.750 0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	12.0 12.3 10.6 12.0 12.0 12.3	7.6	40.00
	3	5.00 5.00 5.14 6.00 6.00 8.00	240-C 240-E 240-D 240-A 240-HW 240-AV 240-AV	1,063 0,500 0,500 1,188 0,500 0,500 0,500	1,250 0,375 0,375 1,188 0,375 0,375 0,375	1.188 0.500 0.500 1.188 0.500 0.500 0.500	40 14 14 38 14 14	13.36	235 225 225 236 300 226 226	15 26 26 15 28 26 26	7,5	6.0		0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750	5/8-11 LINC 5/8-11 LINC	13.3 14.0 14.0 13.8 17.5 14.0 15.0	8.3 8.3 8.3 8.3 8.3 8.3 8.3	
	3.5 4	5.00 5.00 5.00 5.32 6.00 6.00 8.00	240-AV 240-C 240-E 240-D 240-A 240-AV 240-AV 240-AV	0.500 1,063 0.750 0.750 1,188 0.750 0.750 0.750	0.375 1.250 0.500 0.500 1.188 0.500 0.500 0.600	0 500 1.188 0.500 0.500 1.188 0.500 0.500 0.500	12 32 14 14 30 14 14	22.69	225 235 225 225 235 300 225 225	26 15 28 26 15 26 26 26 26 26 26 26 26 26 26 26 26 26	9,0	7.0	8	0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	17.6 16.5 17.0 17.1 17.5 26.0 18.3 19.3	7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.8	
	5	5 00 5 00 6 00 6 00 6 69 8 00	240-C 240-E 240-A 240-AV 240-D 240-AV	1 063 0 750 1 188 0 750 0 750 0 750	1 250 0 500 1 188 0 500 0 500 0 500	1 188 0 500 1 188 0 500 0 500 0 500	27 11 25 11 11	30 02	235 225 235 225 225 225 225	10 26 10 26 10 26	100	8 5	8	0.875 0.875 0.875 0.875 0.875 0.875	3/4-10 UNC 3/4-10 UNC	20 3 22.0 21.8 22.8 23.6 25.0	8 3 8 3 8 3 8 3 8 5 10 8	
	6	5.00 5.00 6.00 6.00 5.00 7.08 8.00	240-C 240-E 240-A 240-HW 240-AV 240-D 240-AV	1.063 0.750 1,188 0.750 0.750 0.750 0.750	1,250 0,500 1,188 0,500 0,500 0,500 0,500	1.188 0.500 1.188 0.500 0.500 0.500 0.500	23 9 21 9	41.28	225 225 235 300 225 225 225	8 26 10 25 26 28	11.0	9.5		0.875 0.875 0.875 0.875 0.875 0.875 0.875	3/4-10 UNC 3/4-10 UNC	22.6 26.0 24.0 39.0 26.8 29.0 29.1	10.4 10.4 10.4 10.4 10.4 10.4 10.8	417
	8	5 00 6 00 6 00 6 00 8 07	240 C 240-E 240-A 240-HW 240-AV 240-D	1 063 0 750 1 188 0 750 0 750 1 000	1 188 0 500 1 188 0 500 0 500 0 563	1 188 0 500 1 188 0 500 0 500 0 875	17 7 16 7 7	63 62	235 225 235 300 225 225	8 26 8 26 26 26	13.5	11 75	8	0 875 0 875 0 875 0 875 0 875 0 875	3/4-10 UNC	35 5 40 0 38 5 70 0 40 6 41 3	13 4 13 4 13 4 13 4 13 4 14 0	
	10	5.00 5.00 8.00 8.00 9.00 8.00 9.45 10.00	240-C 240-E 240-A 240-AV 240-AV 240-HW 240-D 240-AV	1.063 1.000 1.188 1.000 1.000 1.000 1.000	1.188 0.625 1.188 0.625 0.625 0.625 0.625 0.625	1,188 0,750 1,188 0,750 0,750 0,750 0,750 0,875 0,750	14 13 7 7 7 7	13.87	235 225 235 225 225 225 275 225 225	6 25 6 26 26 26 26 26 26 26 26	16.0	14.25	12	1.000 1.000 1.000 1.000 1.000 1.000	7/8-9 UNC 7/8-9 UNC 7/8-9 UNC	49.3 56.0 53.6 56.6 57.0 56.0 58.5 60.5	21.0 21.0 21.3 21.3 22.0 22.0 22.0 22.0 26.5	
	12	5 00 5 00 8 00 8 00 8 00 9 00 10 24	240-C 240-E 240-A 240-HW 240-AV 240-AV 240-D	1 063 1 000 1 188 1 000 1 000 1 000 1 000	1 250 0 625 1 188 0 625 0 625 0 625 0 625	1 188 0 750 1 188 0 750 0 750 0 750 0 875	12 6 11 6 6 6	137 89	235 225 235 275 225 225 225	6 26 6 26 26 26 26	19.0	17 0	12	1 000 1 000 1 000 1 000 1 000 1 000 1 000	7/8-9 UNC 7/8-9 UNC	73 4 74 0 80 0 100.0 83 0 88 0 89 0	26.5 26.5 27.0 27.0 27.0 27.0 28.0	Min.
	14	8.00 8.00 9.00 10.43	240-HW 240-AV 240-M 240-D	1,000 1,000 1,000 1,000	0.625 0.625 0.625 0.625	0.750 0.750 1 0.750 0.875	5	182.65	200 150 150 150 150	26 26 26 26 26	21.0	18.75	12	1.125 1.125 1.125 1.125 1.125	E CL	162.0 115.0 117.0 120.0	28.0 28.0 29.0 29.0 29.0	1
	16	8.00 8.00 9.00 10.43	240-HW 240-AV 240-M 240-D	1 000 1 000 1 000 1 000 1 000	0 625 0 625 0 625 0 625 0 525	0 750 0 750 0 750 0 750 0 750 0 975	4 4 4 4	240 53	175 125 125 125	26 26 26 26	23.5	21 25	16	1.125 1.125 1.125 1.125		186 0 165 0 168 0 170 0	26.8 26.8 27.0 27.0	
	18	8.00 10.43	240-HW 240-AV 240-M 240-D 240-C 240-HW	1,000 1,000 1,000 1,000	0.625 0.625 0.625 1 063 0 625	0.750 0.750 0.875 1 188 0 750	6 3	298.65	175 125 125 125 125 145 175	28 26 26 26 6 26	25.0	22.75	16	1.250 1.250 1.250 1.250 1.250		168.0 169.0 170.0 154.0 234.0	31.4 31.4 33.1 33.1 32.4 32.4	
	20 22	8.00 9.00 10.43	240-AV 240-M 240-D	1.000 1.000 1.000	0 625 0 625 0 625	0 750 0 750 0 750 0 875	3 3 3 3 4 4	363 05	125 125 125 125	26 26 26 26	27.5	25.0	20	1 250 1 250 1 250 1 250	<b>松雅小波型紅龙湖</b>	170 0 173 0 175 0	32.4 34.1 34.1	
	24	8 00 10.00 10 00	240-AV 240-AV 240-AV 240-HW	1 000 1 000 1 000 1 000	1 063 0 625 0 625	1 188 0 750 0 750	5 3 3	510 70	145 110 160	6 26 26	32.5	29.5	20	1 375 1 375 1 375	- - - - - 	214 0 255 0 297 0	44.0 45.5 45.5	
	26 30	10.47 78 10.00 1.1	240-D	1.000	0 625 0.625	0.875 - 0.750 0 8 0.750	3	779 31	110 3 110 (§	26 26 26	34.25	31.75 36 0	24	1.375 1.375		265 0 270.0 295 0	46.0 46.5 57.0	1
			AO AI/ Evenne	nian tainta	ahawa In D	old Tuno ar	a concidere	d Clandard	c and inva	ntariad in	large qua	ntiline	-	-		-		

Standard PROCO Style 240-AV Expansion Joints shown in Bold Type are considered Standards and inventoried in large quantities.

- NOTES 1 TWO denotes Heave Weight Construction

  1. Notes that we denote steam weight Construction

  2. Movements stated are non-concurrent

  3. To determine End Thrust Multiply Thrust Factor by Operating Pressure of System. This is End Thrust in pounds.

  4. Pressure rating is based on 170 Floorating temperature. The pressure rating is reduced slightly at higher temperatures.

  5. Pressures shown are maximum "operating pressure." Test pressure is 1.5 times "operating pressure." Burst pressure is approximately 4 times "operating pressure."

- nventoried in large quantities.

  6. Vacuum rating is based on neutral installed length, without external load. Products should not be installed 'extended' on vacuum applications.

  7. Style 240-47/MI (Neoprene elastomer only) expansion joints 1.0° L.D. 12.0° L.D. come with tapped holes in lieu of drilled holes.

  All expansion joints are furnished complete with flanges. Control units are required on applications where movements could exceed lated capabilities.

Table 3: Sizes • Movements • Pressures • Flange Standards • Weights

	NOMINAL DIDE		PROGO	242 Mov	ement Capa	bility: From			Press	ure 4	Sta	Weight in lbs <sup>8</sup>					
	PIPE Size I.D.	Neutral Length	Style Number <sup>1</sup>	The state of the s		Angular Deflection Degrees Thrust <sup>2</sup> Factor		Positive PSIG.		Flange D.D. Inches, Bolt Circle Thethes		Number of Holes Size of Holes Inches		Boil Hole <sup>7</sup> Thread		Control Unit Set (2 Rod)	
	1.25	7.0 7.0 10.00	242-C 242-A 242-HA 242-C	2.000	STATE OF THE PARTY		45	6.34	225 225 300 4725	26 26	4.83	3,5	4	0.625 0.625 0.625	1/2-13 UNG	5.2 5.3 6.5 6.2	3.6 3.5 3.5 3.6
	1.5	6 00 6 00 7 00 7 00 10 00	242-B 242-HB 242-A 242-HA 242-C	2 000	1 188 1.750		45	6 49	225 300 225 300 225	26	5.0	3 88	4	0.625 0.625 0.625 0.625 0.625	1/2-11 UNG	6.1 7.6 6.8 8.3 7.7	4.6 4.6 4.8 4.8 5.1
	2	8.00 8.00 7.00 7.00 10.00	242-8 242-HB 242-HB 242-HA 242-HA 242-C	2.000	1,188	1/750	45	199 199	225 300 225 300 235	26	8.0	4.75	4	0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	9.0 10.5 9.0 10.5 10.2	8.6 6.6 7.0 7.0 7.3
	2.5	6.00 6.00 7.00 7.00 10.00	242-B 242-HB 242-A 242-HA 242-C	2 000	1 188	1.750	43	11 (5	225 300 225 300 225	26	7.0	5 5	4	0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	12.9 15.3 13.3 15.8 14.5	7.6 7.6 8.0 8.0 8.4
	3	7.00 7.00 9.00 10.00	242-A 242-HA 242-B 242-C 242-C	2.000	1. (88	1.750	38	13.36	NEWNIN	28	7.5	6,0	4	0.750 0.750 0.750 0.750 0.750	5/8-11 UNC	14.3 18.2 15.2 15.8 16.0	8,6 8.6 9,0 9,1 9,9
	3.5	10.00	242-C 2.000 1.		1.188	1.750	34	18 67	225	26	9,0	7.0	8	0.750	5/8-11 UND	20.6	8.0
	4	9.00 9.00 10.00 12.00	242-A 242-HA 242-G 242-G	2.00		1,502			225 300 225 225 225	28				0.750 0.750 0.750	3/4-10 UNO	20.3 26.4 21.3 22.0	8,0 8,0 8,2 8,2
	5	9.00 9.00 10.00 12.00	242-A 242-HA 242-G 242-C	2.000	1.375	1.562	29	30 02	225 300 225 225	26	10 0	8.5	8	0.875 0.875 0.875 0.875	=	24.5 31.4 25.5 26.0	8.3 8.3 9.1 9.1
	6	9.00 9.00 10.00 12.00 14.00	242-A 242-HA 242-0 242-0 242-0	2,000	1.375	1,562	25	41.28	225 300 225 225 225 225	26	11.0	9.5	8	0.875 0.875 0.875 0.875 0.875	3/4-10 UNC	29,5 38.6 30.5 31.0 32.0	11.7 11.7 11.9 12.0 12.0
	8	9 00 9 00 10 00 12 00 13 00 13 00 14 00	242-B 242-HB 242-C 242-C 242-A 242-HA 242-G	2 375	1 375	1.375	19	63 62	225 300 225 225 225 300 225	26	13.5	11.75	8	0.875 0.875 0.875 0.875 0.875 0.875 0.875	3/4-10 UNC	42.3 55.4 43.4 44.0 43.8 57.5 46.0	14.5 14.5 15.0 15.2 15.4 15.4 16.0
	10	12.00 12.00 13.00 13.00 14.00	242-B 242-HB 242-A 242-A 242-HA 242-0	2.375	1.375	1,375	15	103.87	228 275 225 276 225 225	26	16.0	14.25	12	1.000 1.000 1.000 1.000 1,000	7/8-9 UNC	84.1 86.5 65.5 88.4 66.7	23.5 23.5 24.5 24.5 24.5 24.5
	12	12 00 12 00 13 00 13 00 14 00	242-B 242-HB 242-A 242-HA 242-C	2.375	1 375	1 375	13	137.89	225 275 225 275 275 225	26	19 0	17 00 12		1 000 1 000 1 000 1 000 1 000	7/8-9 UNC	94 0 110 0 95 0 110 0 99.1	30.0 30.0 31.0 31.0 31.0
	14	12,00 13,75 13,75	242-Q 242-A 242-HA	1,750	1.118	1.118	9-	182.65	150 150 200	26	19.0	18.75	12	1,125 1,125 1,125		110.0 112.0 144.0	30,5 32.0 32.0
	16	12 00 12 00 13.75 13.75	242-C 242-HC 242-A 242-HA	1 750	1.118	1 118	8	240.53	125 175 125 175	26	23 5	21 25	16	1 125 1 125 1 125 1 125 1 125	-	124.0 160.0 132.0 170.2	28.8 28.8 30.8 30.8
	18	12.00 18.75 13.75	242-C 242-A 242-HA	1.750	1,118	1.118	7	298.65	125 125 175	26	25.0	22.75	16	1.250 1.250 1.250		138.0 146.0 181.2	35,1 36,1 36,1
	20	12 00 13.75 13.75	242-C 242-A 242-HA	1 750	1.118	1 118	7	363 05	125 125 175	26	27 5	25 0	20	1 250 1 250 1 250	-	172.0 182.0 182.0	35.0 35.5 35.5
19	22	12.00- 12.00	242-0 1 242 C	1.750	1.118	图 1.118 问题	6 6	123,74	115	26	29.5	27.25	20	1.375	30 美国外	181.0	<b>35.5</b>
	24	13.75 13.75	242-A 242-HA	1 750	1 118	1 118	5	510 70 593 96	110 110 160	26	32.5	29	20	1 375	<b>国际第二次</b>	220 0 266 2	48 0 48 0 52.0
	26 30	12.00 H	242-C	1.750	1 118	1 118	4	772.31	110	26	38 75	36 0	28	1 375	一	270 0	62.0

## Standard PROCO Style 242-A Expansion Joints shown in Bold Type are considered Standards and inventoried in large quantities.

- and inventoried in large quantities.

  NOTES 1. 'HA'. 'HB', and 'HC' denote Heavy Weight Construction.

  2. Movements stated are non-concurrent.

  3. To determine End Thrust. Multiply Thrust Factor by Operating Pressure of System. This is End Thrust in pounds.

  4. Pressure rating is based on 170. Floperating temperature. The pressure rating is reduced slightly at higher temperatures.

  5. Pressures shown are maximum 'operating pressure.' Test pressure is 1.5 times 'operating pressure.' Burst pressure is approximately 4 times 'operating pressure.' Vacuum rating is based on neutral installed length, without external load. Products should not be installed 'extended' on vacuum applications.

  7. Style 240-AV NN (Neoprene sisstomer only) expansion joints 1.25 1.D. 12.0 1.D. come with tapped holes in leu of drilled holes.

  8. All expansion joints are furnished complete with flanges. Control units are required on applications where movements could exceed rated capabilities.



MEMBER





Install at the neutral length dimension as shown in Tables 2 & 3. Make sure the mating flanges are FLAT-FACE TYPE. When attaching beaded end flanged expansion joints to raised face flanges, the use of ring gaskets are required to prevent metal flange faces from cutting rubber bead during installation. Care must be taken when pushing the joint into the breech between the mating flanges so as not to roll the leading edge of the joint out of its flange groove.

## Precompression Note:

Joint must be precompressed approximately 1/8\* to 3/16\* in order to obtain a correct installed face-to-face dimension.





## drilling for series 240 and series 242 expansion jo

	NP16	ezis ejoh	0.55	180	18.0	18.0	18.0	18.0		1200	180	0.87	220	26.0	1 02 26 0	1 02 26 0	30.0	1116 3000	1.30	1.30	380	38.0	36.0	
	Metric Series Conforms to I.S.O. 2084-1974 Table Holes to I.S.O. /R-273	lo ol seloH	-7 -7	**	3		-7 -7	eo m		10 85	တစာ	10 00	12	12	12	16		20.20	20 20	20 20	22	25	24	
	Metric Series to 1.S.O. 2084-1974 Ta Hales to 1.S.O. /R-273	Bolt	3 35 85 0	3.94	110.0	125.0	145 0	6 30		7.09	2100	240 0	11.61	13.98	16 14	18 50	525.0	23.08	25 59 650 0	27 95	30.31	31.10	35 43 900 0	
	forms to 1. Hole	Flange G.O	153	1400	150.0	165.0	135 0	7.87	1	220.0	984	11 22 285 0	13.39	15.94	1811	20 47 520 0	580.0	25.20	28.15	30.51	33.07	33.86	38.19 970.0	
	Con	Llange	160	16.0	0.63	18.0	180	20 0		20.0	22.0	0.87	22.0	1.02	1 02 26 0	28 0	30.0	1.18	30.0	30.0	30.0	1.26 32.0	32.0	
	The second second	ezis eloH	110	13.0	18.0	18.0	130	180	1.00	18.0	13.0	22.0	22.0	22.0	22.0	22.0	1.02	1.02	1 02	30.0	30.0	30.0	33.0	
	Metric Series to I.S.O. 2084-1974 Table NP10. Holes to I.S.O. /R-273	lo.oN seloH	-1 -1	-, -,	100	1		e0 es	11	80 M	60 60	09 60	1000	12	12	5 5	2 TREE 16	20	20 20	22	88	24 24	24	A STATE OF THE PERSON NAMED IN
	Metric Series to I.S.O. 2084-1974 Ta Holes to I.S.O. /R-273	Hod Sircle	3 35	394	110.0	125.0	145 0	160 0	11	180.0	2100	240 0	295.0	13.78 350.0	15 75	1811	515.0	22.24	24.41	26.57 675.0	28.54	30.71	35 43	Same Accessed
	Conforms to l	Flange .0.0	115.0	1400	150.0	165.0	1 7.25	2000	11	220.0	250 0	285 0	340.0	395.0	17.52	19 88 505 0	565.0	815.0	3 26 38 670 0	28 74	780.0	32.67 835.0	965.0	Allen Williams
	Ē	Flange	16.0	16.0	16.0	18.0	180	200	1	20.0	22.0	22.0	22.0	1.02	1 02	280	30.0	1.18	30.0	30.0	30.0	32.0	126	MEN SOLICIONS
	w	ezis ejoh	15.9	15.9	15.9	19.1	191	191	0.75	0.75	191	0.88	*22	0.88	1 00	1 00	1.00	1.00	1 00	1 13	31.8		349	Andreas of the Sant Sant Sant Sant Sant Sant Sant Sant
	British Standard 10:1962 Conforms to BS 10 Table E	id .oM seloH	-7 -7	-7 -7	4	1	-1 -1	-1 -1	8 8	8 8	60 en	85 85	8	12	12	12	12	16	91	10 0	16	114	20	Contract of the contract of th
	sh Standar irms to BS	Bolt Bolt	3.25	3.44	3.88	114.3	127.0	575	6.5	8777.8	8 25 209 6	9 25	292.1	14.0	16 0	185	520.7	23.0	25.25 641.4	27.5	29.75	10 THE REAL PROPERTY.	36.5	and of the same
	Britis	Flange .0.0	114.0	121.0	5.25	152.01	165 0	7 25	8.0	276.0	10 0	279 0	337.0	116.0	180	20 75	578.0	25.25	27.75	30 0	32.5	Ü į	39.25 997.0	Separate Contractor
		Flange Thickness	15.0	150	15.0	16.0	0.00	0.81	18.0	18.0	2002	222	222	24.0	24.0	26 0	1.10	1.18	300	30.0	1.18	Tr.	1 26 32 9	and the second lives
	American 250/300# Conforms to ANSI B16.1 and B16.5	azis eloH	191	191	0.88	19.1	0 88	0.88	0.88	0.88	0.88	0 88	25.4	1.13	31.8	318	1.38	1.38	1.38	34.9	41.3	175	2 00 50.8	A CONTRACTOR
		10.0N soloH	-1 -1	-1 -1	1700	eo eo	at) (1)	er) m)	8 20 8 20 20	so 60	60 m	22	12 12	16	10.10	22	20	24	24	24 24	24	28	28 28	-
	American 250/300# ns to ANSI B16.1 an	no8 slonio	38.9	388	114.3	127.0	5 88	168 2	7.25	7.88	9 25	10 62 269.9	330.2	15.25	17.75	2025	571.5	24.75	27 0 685 8	29 5	32.0	34.5	39 25 997 0	100000000000000000000000000000000000000
	Ar Conforms	Flange .0.0	1.58	1330	156.0	165.0	10.00	3.25	0.622	52	230	3.50	381.0	45.0	5275	320	522	28.0 711.0	280	838.0	36.0	38.25	1092.0	No. of Contrast
		Lyconess Lysude	0 63	16.0	16.0	18.0	180	20 0	20.0	20.0	0.87	22.2	24.0	7,02	1 02	28 0	1.18	1.18	1.18	1.18	1.18	126	1.26	State State State
		bobsonii esis elet	1/2 - 13 UNC	1/2 - 13 UNC	1/2 - 13 UNC	5/8 - 11 UMC	3/4 - 10 UNC	3/4 - 10 UNC	3/4-10 UNC	7/8 - 9 UNC	7/8 - 9 UNC	1 - 3 UMC	1 - 8 UNC	T 1/8 - 7 UNC	1/8 - 7 UNC	1-174 - 7 UNG	1 1/4 - 7 UNC	-1.1/4-7 UNC	1 1/4 - 7 UNC	0.00				
	816.5	Dillied Hole Size	0.62	15.9	15.9	19.1	9 75 5	5 27 0 191	19.1	- 26	0.88 3	0.88 3	22.2	1.00	-	113	1.13	31.8	1 25 1	1 38 1	1.38 1	34.9	1.38 1	1
	125/150# B16.1 and	No. 01 Holes	4 4	44		<b>新加州</b>	7 7	7 7	8	80 80	22	20 80	8 2	12 2	-	12 2	16	16 25 23	20 3	-	22	24 3	28 3	100000000000000000000000000000000000000
	American 125/150# Conforms to ANSI B16.1 and B16.5	Jog Sircle	3.13	3.5	3.88	120.7	5.5	6.0	177.8	190.5	8.5	9.5	11,75	14.25		18 75	21.25	577.9	25.0	27.25	749.3	31,75	36.0	1
lling	Confor	*BnaFl .0.0		118.0	127.0	152.0	173	197.5	216.0	0.302	100	2790 2	130	16.0	19.0	210	215	25.0	27.5	29.5	1.11675	140.70		
ange Dri		Flange	0.55	-	125 62	16.0	17.0	18.0	0.71	1 60	20.0	0.87	<b>海原</b>	24.6	-	-	1,10	1.18	1.18		5-6325	抽象		
Table 7: Flange Drilling	3816	1 =	1 25		ESSE	2 50	2.5	3 80					200	10 250				les de			and to			
Tab		o e e		-"			20		6.0				2	- 2			. 4	4	1,403	, w	1,40	., 9	7	

