control units

PROCO PRODUCTS, INC.

Table 4: Control Units/Unanchored

Control Units must be installed when pressures (test • design • surge • operating) exceed rating believes

(tost - design - surge - operating) execed fatting below.						
Pipe Size	Series 240 P.S.I.G.	Series 242 P.S.I.G.				
1" thru 4"	180	135				
5" thru 10"	135	135				
12" thru 14"	90	90				
16" thru 24"	45	45				
26" thru 30"	35	35				

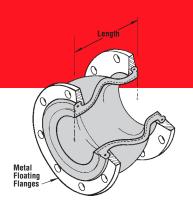


Figure 1. Style 240 Single Sphere Connector

Table 5: Control Units								
ıd 1 (in)	Control Rod Plate Thickness (in)	² (in)		Maximum Surge or Test Pressure of System/PSIG ³				
Control Rod Plate O.D. ¹	Control Rod Plate O.D. ¹ (i Control Rod Pl Thickness (in)	eter 2		Number	of Rods Re	equired:		
Contr Plate	Contr Thick	Rod Diam	Rod Diameter ² (in) Nominal Pipe Size (in)	2	3	4		
8.375	0.375	0.625	1	949	_	_		
8.750	0.375	0.625	1.25	830	_	_		
9.125	0.375	0.625	1.5	510	_	_		
10.125	0.375	0.625	2	661	_	_		
11.125	0.375	1.000	2.5	529	_	_		
11.625	0.375	1.000	3	441	_	_		
12.625	0.375	1.000	3.5	365	547	729		
13.125	0.375	1.000	4	311	467	622		
14.125	0.500	1.000	5	235	353	470		
15.125	0.500	1.000	6	186	278	371		
19.125	0.500	1.000	8	163	244	326		
21.625	0.750	1.000	10	163	244	325		
24.625	0.750	1.000	12	160	240	320		
26.625	0.750	1.000	14	112	167	223		
30.125	0.750	1.250	16	113	170	227		
31.625	0.750	1.250	18	94	141	187		
34.125	0.750	1.250	20	79	118	158		
36.125	1.000	1.250	22	85	128	171		
38.625	1.000	1.250	24	74	110	147		
40.825	1.000	1.250	26	62	93	124		
44.125	1.250	1.500	28	65	98	130		
46.375	1.250	1.500	30	70	105	141		

NOTES: 1. Control Rod Plate O.D. installed dimension is based on a

- maximum 0.D. PROCO would supply. (See Figures 3 & 4)

 2. Control Rod diameter is based on a maximum diameter PROCO
- Control Rod diameter is based on a maximum diameter PROCO would use to design a Control Rod.
- Rod pressure ratings are based on metal conforming to F.S.A. standards and dimensions.

 Table 6: Special Construction Pressures

 Pipe Size
 Series 240 & 242 Heavyweight P.S.I.G.

 1" thru 8"
 300

 10" thru 12"
 275

 14"
 200

 16" thru 20"
 175

 22" thru 30"
 160

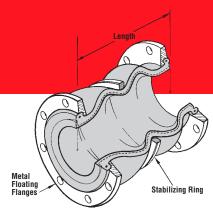
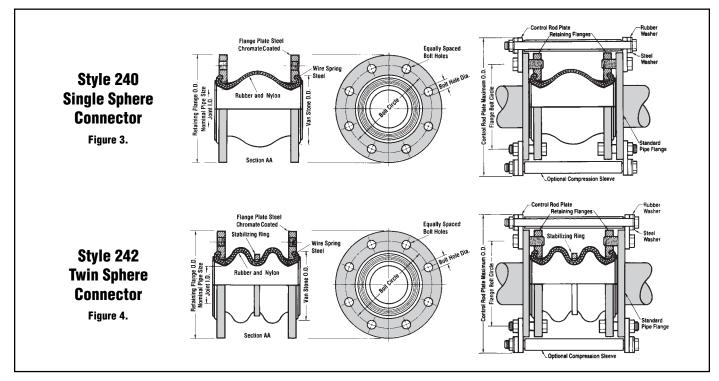


Figure 2.
Style 242
Twin Sphere Connector



Control Rod/Unit Applications. Control unit assemblies are designed to absorb static pressure thrust developed at the expansion joint. When used in this manner, control unit assemblies are an additional safety factor, minimizing possible failure of the expansion joint or damage to equipment. (See Tables 4 & 5).

- Anchored Systems: Control unit assemblies are not required in piping systems that are anchored on both sides of the expansion joint, provided piping movements are within the rated movements as shown in Tables 2 & 3.
- Unanchored Systems: Control unit assemblies are always required in unanchored systems. Additionally, control unit assemblies must be used when maximum pressure exceeds the limits shown in Table 4 & 5, or

3. Spring-Mounted Equipment: Control unit assemblies are always recommended for spring-mounted equipment. Additionally, control unit assemblies must be used when maximum pressure exceeds the limits shown in Tables 4 & 5, or the movement exceeds the rated movements as shown in Tables 2 & 3.

Special Applications. Certain Style 240 (Single Sphere) and 242 (Twin Sphere) expansion joints are available in High-Pressure Designs. For specific pressures, see Table 6. Style designations are listed as 240-HW (sizes stocked in Table 2) and 242-HA, 242-HB & 242-HC (sizes stocked in Table 3.) The High-Pressure Design is recommended when the connector is to be installed into ANSI 250/



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