



flanged rubber pipe connectors

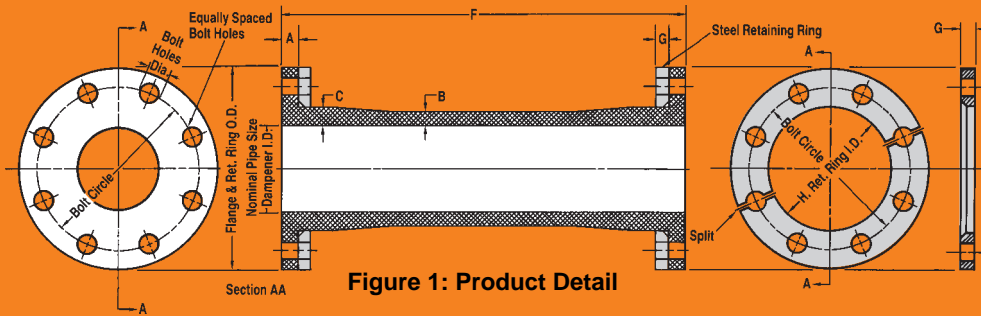
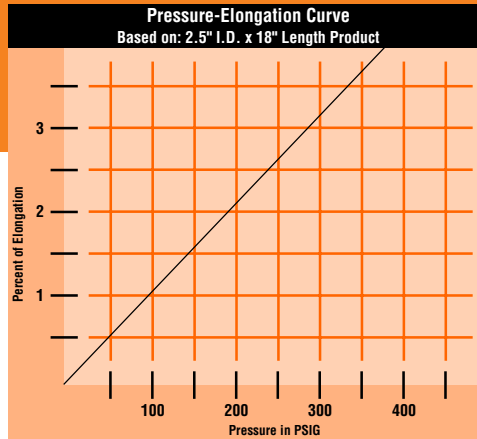
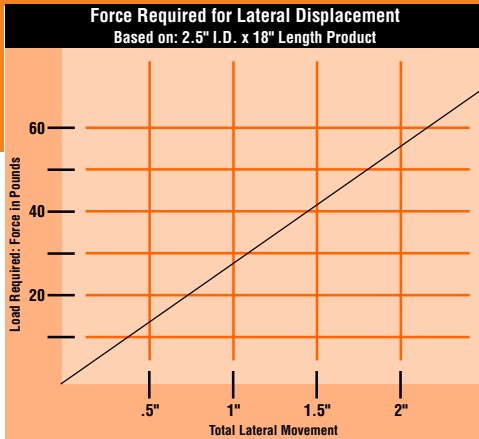


Figure 1: Product Detail



Reduce System Stress And Strain. Rigid attachment of piping to critical or mechanical equipment can produce excessive loading. Thermal or mechanically created strain-stress-shock are cushioned and absorbed with the installation of a flexible PROCO Series 300 Rubber Pipe.

Full Flow With Less Turbulence Or Material Entrapment. The smooth bore of the PROCO Series 300 Rubber Pipe Connector allows full flow without turbulence. Metallic connectors depend upon bellows or convolutions to absorb motion. These bellows/convolutions could create flow turbulence and also create an area for material entrapment or bacteria growth.

Leak Free Without Gaskets Or Packing. The full-face rubber flange of the PROCO Series 300 Rubber Pipe Connector is self-gasketing. Additionally, the Style 310-R features a molded in place "O-Ring" on each flange-face for faster sealing with less torque at installation and less long-term maintenance. Unlike interlocked metallic connectors, the Series 300 features a one-piece seamless tube that does not require packing. Our rubber connector is suitable for all air, gas, and fluids, including "searching" thin fluids.

Control Rod Assembly Usage. PROCO Style 491 Control Units are designed to protect the Series 300 Pipe Connector from excessive elongation. Control rods must be used: (1) when the piping containing the rubber pipe connector is not anchored and, (2) when the rubber pipe connector is attached to resiliently supported pipe or equipment.

Nominal Pipe Size: Pipe I.D.	125/150# Flange Dimensions ¹ Pipe • Rings • Rods				250/300# Flange Dimensions ² Pipe • Rings • Rods				Pipe Dimensions See Figure 1		Operating Pressures ³ Positive In P.S.I.G.			Retaining Ring Weight Per Set	
	Flange O.D.	Bolt Circle	# of Holes	Size of Holes	Flange O.D.	Bolt Circle	# of Holes	Size of Holes	"A" Flange Thickness	"B" Body Thickness	Style 310-R	Style 310	Style 320	Style #481 150 Pound	Style #484 300 Pound
.75	3.88	2.75	4	.625	4.62	3.25	4	.750	.591	.472	300	150	300	1.5	2.0
1	4.25	3.12	4	.625	4.88	3.50	4	.750	.591	.551	300	150	300	1.9	2.9
1.25	4.62	3.50	4	.625	5.25	3.88	4	.750	.591	.551	300	150	300	2.4	3.0
1.50	5.00	3.88	4	.625	6.12	4.50	4	.875	.591	.551	300	150	300	2.6	4.4
2	6.00	4.75	4	.750	6.50	5.00	8	.750	.591	.551	250	150	250	3.6	4.3
2.50	7.00	5.50	4	.750	7.50	5.88	8	.875	.591	.591	200	150	250	5.3	5.5
3	7.50	6.00	4	.750	8.25	6.63	8	.875	.591	.591	175	150	250	5.6	6.0
3.5	8.50	7.00	8	.750	9.00	7.25	8	.875	.591	.669	175	150	250	6.5	7.0
4	9.00	7.50	8	.750	10.00	7.88	8	.875	.591	.669	175	150	250	7.3	10.0
5	10.00	8.50	8	.875	11.00	9.25	8	.875	.591	.669	175	150	250	7.9	11.6
6	11.00	9.50	8	.875	12.50	10.63	12	.875	.591	.709	150	150	250	9.1	14.5
8	13.50	11.75	8	.875	15.00	13.00	12	1.000	.591	.787	150	150	250	14.0	19.6
10	16.00	14.25	12	1.000	17.50	15.25	16	1.125	.787	.866	150	150	250	17.0	23.0
12	19.00	17.00	12	1.000	20.50	17.75	16	1.250	.787	.984	150	150	250	24.1	31.3
14	21.00	18.75	12	1.125	23.00	20.25	20	1.250	.787	.984	125*	125	200	26.8	37.0
16	23.50	21.25	16	1.125	25.50	22.50	20	1.375	.787	.984	100*	100	150	32.1	45.0
18	25.00	22.75	16	1.250	28.00	24.75	24	1.375	.875	1.000	100*	100	150	30.6	58.0
20	27.50	25.00	20	1.250	30.50	27.00	24	1.375	1.000	1.000	100*	100	150	35.9	67.0

NOTES: 1. Dimensions shown meet 125/150# standards of: ANSI B-16.1, B-16.24, B-16.5; AWWA C-207 Table 1 and 2, Class D; MSS SP-44 and NBS/PS 15-69.
2. Dimensions shown meet 250/300# standards of: ANSI B-16.1, B-16.24, B-16.5 and MSS SP-44 Class 300.
3. Vacuum rating is 26" hg. in all cases except where * appears. Pressure rating is based on 170°F. operating temperature.

Table 3: Sizes • Movements • Weights

Nominal Pipe Size: Pipe I.D.	Neutral Length	Movement Capability From Neutral				Approximate Weight / Lbs. Style 310-R
		In. of Axial Compression	In. of Axial Extension	In. of Lateral Deflection ±	In. of Angular Deflection ±	
.75	12*	.158	.158	1.97	21.8°	2.4
	18	.236	.236	2.96	31.0°	3.2
1	12*	.158	.158	1.77	17.7°	3.3
	18	.236	.236	2.66	25.6°	4.2
1.25	12*	.158	.158	1.58	14.0°	4.0
	18	.236	.236	2.36	20.6°	5.0
1.5	24	.315	.315	3.15	26.6°	6.0
	12*	.158	.158	1.39	11.3°	4.3
2	18	.236	.236	2.09	16.7°	5.4
	24	.315	.315	2.78	21.8°	6.5
2.5	12*	.158	.158	1.18	9.1°	5.6
	18	.236	.236	1.77	13.5°	6.8
3	24	.315	.315	2.36	17.7°	8.0
	30	.354	.354	2.96	19.8°	9.2
3.5	12*	.158	.158	.98	7.0°	6.9
	18	.236	.236	1.48	10.5°	8.2
4	24	.315	.315	1.97	13.8°	9.5
	30	.354	.354	2.46	15.5°	10.0
4.5	12*	.158	.158	.79	5.7°	8.6
	18	.236	.236	1.18	8.5°	10.6
5	24	.315	.315	1.58	11.3°	11.7
	30	.354	.354	1.97	12.7°	14.6
5.5	36	.433	.433	2.36	15.4°	16.6
	12	.158	.158	.59	4.6°	10.9
6	18*	.236	.236	.89	6.8°	14.5
	24	.315	.315	1.18	9.1°	17.4
6.5	30	.354	.354	1.48	10.2°	19.7
	36	.433	.433	1.77	12.4°	21.9
7	48	.472	.472	1.98	14.8°	27.2
	12	.158	.158	.45	3.7°	13.5
8	18*	.236	.236	.89	5.5°	16.6
	24	.315	.315	.89	7.3°	20.1
8.5	30	.354	.354	1.12	8.2°	23.1
	36	.433	.433	1.34	8.3°	31.5
9	48	.472	.472	1.55	9.9°	39.0
	12	.118	.118	.35	1.7°	23.4
10	18	.158	.158	.53	2.3°	29.4
	24*	.236	.236	.71	3.4°	35.7
10.5	30	.276	.276	.89	4.0°	40.2
	36	.354	.354	1.06	5.1°	47.4
11	48	.472	.472	1.42	6.8°	59.4
	12	.118	.118	.32	1.4°	26.0
12	18	.158	.158	.47	1.8°	37.0
	24*	.236	.236	.63	2.7°	48.7
12.5	30	.276	.276	.79	3.2°	59.0
	36	.354	.354	.95	4.1°	70.0
13	48	.472	.472	1.26	5.5°	92.0
	12	.118	.118	.24	1.1°	36.0
14	18	.158	.158	.36	1.5°	51.0
	24*	.236	.236	.47	2.3°	66.5
14.5	30	.276	.276	.59	2.7°	81.0
	36	.354	.354	.71	3.4°	96.0
15	48	.472	.472	.95	4.2°	126.0
	12	.118	.118	.24	1.0°	58.0
16	18	.158	.158	.36	1.3°	83.0
	24*	.236	.236	.47	2.0°	108.0
16.5	30	.276	.276	.59	2.3°	133.0
	36	.354	.354	.71	2.9°	157.0
17	48	.472	.472	.95	3.9°	208.0
	12	.118	.118	.24	0.7°	83.0
18	18	.158	.158	.36	1.3°	118.0
	24*	.236	.236	.47	1.7°	153.0
18.5	30	.276	.276	.59	2.6°	233.0
	36	.354	.354	.71	3.4°	294.0
19	48	.472	.472	.95	3.4°	394.0
	12	.112	.112	.18	0.9°	110.0
20	18	.118	.118	.24	1.2°	157.5
	24*	.236	.236	.24	1.5°	205.0
20.5	36	.354	.354	.36	2.3°	300.0
	48	.472	.472	.48	3.1°	394.0
21	24*	.236	.236	.24	1.4°	274.0
	36	.354	.354	.36	2.1°	394.0
21.5	48	.472	.472	.48	2.7°	519.0

NOTES: *1. For optimum noise and vibration absorption, use this or longer length.
2. The degree of angular movement is based on the maximum rated extension.
3. Larger I.D. or length sizes available. Contact PROCO.

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