SERIES SERIES 5 sleeve type pipe connectors

The PROCO Series 450 Sleeve Type Pipe Connectors are used for tough demanding applications found in: Refridgeration Pump Systems, Industrial Process Piping Systems, Power Generating Plant Pump Systems, Pulp/Paper Plant Pump Systems, Water-Wastewater Sewage and control systems where lower pressure and sleeve ends are used in lieu of flanged spool type rubber expansion joints. The Series 450 Sleeve Type Pipe Connectors are constructed of Neoprene rubber and reinforced with impregnated woven nylon.

The PROCO Series 190-D Navy Sleeve Type Pipe Connectors are used for tough demanding marine applications found in: Shipboard Fuel Oil, Ballast and Bilge Drainage Systems. (The PROCO Series 190-D Navy Sleeve Type Pipe Connectors are constructed of the same materials as the Series 450 and come with an aluminized glass cloth outer cover to meet Mil-E-15330 Class B specification.)

Dimensions			Allowable Movements			Operating Conditions			Force To Move (Lbs.)		Wt Lbs.
Nominal Pipe Size	O.D. of Pipe I.D. of Joint	Length of Joint	Axial		Angular	Pressure	Vacuum	Temp F°	Axial	Axial	01
			Extension	Compression	± Degrees	(PSIG) Note 1	(In. Hg.)	Note 2		Compression	Sleeve
1.5 2.0 2.5	1.900 2.375 2.875	7.0 7.0 7.0	.5 .5	1.0 1.0 1.0	10° 10° 10°	75 75 75	20 20 20	225 225 225	30 35 40	26 30 34	1.4 1.6 1.8
3.0 3.5	3.5 4.0	7.0 7.0	.5 .5	1.0 1.0	10° 10°	75 75	20 20	225 225	45 48	40 43	2.0 2.2
4.0	4.5 5.0	7.0 7.0	.5 .5	1.0	10° 10°	75 75 75	20 20	225 225	50 53	45 52	2.4
5.0 6.0	5.563 6.625	7.0 7.0	.5 .5	1.0 1.0	10° 10°	75 75	20 20	225 225	57 65	60 75	2.9 3.4
8.0 10.0 12.0	8.625 10.750 12.750	7.0 7.0 7.0	.5 .5 .5	1.0 1.0 1.0	10° 10° 10°	75 75 75	20 20 20	225 225 225	100 265 650	145 255 400	4.3 5.1 6.7

Coupling to be slipped over pipe to a depth of 2"

Coupling is a flexible member, and pipe must be properly anchored and guided

All dimensions are in inches.

Notes: 1. Burst pressure rated at four times operating pressure. 2. Can withstand an intermittent temperature of 275° F

The Expansion Joint People

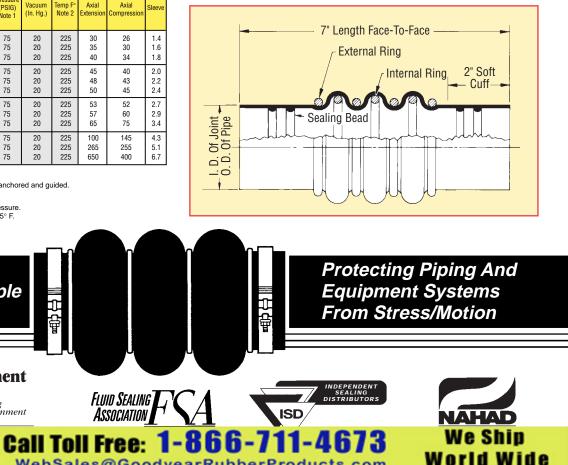
GOODYEAR



Specify the PROCO Series 190-D and Series 450 for installations near mechanical equipment in piping systems to: (1) Absorb Pipe/Movement/Stress, (2) Reduce system Noise, (3) Isolate Vibration, (4) Eliminate Electrolysis, (5) Compensate Alignment/Offset & (6) Protect Against Start-Up/Surge Forces. Our history in expansion joint products dates back to 1930. When you need an engineered solution to a piping systems problem, call PROCO.

Construction of Sleeve Type Pipe Connectors: The Series 190-D and Series 450 Sleeve Type Connectors are constructed of neoprene rubber and reinforced with impregnated woven nylon. Sealing beads are molded on the interior of the sleeve and provide extra sealing action for the clamping area. Internal reinforcing rings prevent deformation of the connector during surge or temporary negative pressure conditions. The outer reinforcement rings are provided to add external reinforcement.

Fastening Method: The Series 190-D and Series 450 Sleeve Type Pipe Connectors require heavy duty, stainless steel, 1" wide "T" bolt clamps to provide proper clamping strength. Clamps are not stocked by PROCO Products, Inc. and are to be provided by others.



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