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# PRODUCT INFORMATION

## Installation Instructions for Threaded Metal/Rubber Connectors

### SERVICE CONDITIONS:

⇒ Make sure the threaded metal/rubber connector ratings for temperature, pressure, vacuum\*, movements and selection of elastomeric materials match the system requirements. Contact the manufacturer if the system requirements exceed those of the expansion joint selected.

(\*Vacuum service for rubber connectors: Vacuum rating is based on neutral installed length, without external load. These products should not be installed "extended" on vacuum applications).

### ALIGNMENT:

⇒ Rubber connectors are not designed to make up for piping misalignment errors. Pipe misalignment should be no more than 1/8" in any direction. Misalignment of a rubber connector will reduce the rated movements and can induce severe stress of the rubber connector material properties, thus causing reduced service life.

### ANCHORING:

⇒ Anchors are required whenever a piping system changes direction. Rubber connectors should be located as close as possible to anchor points. control cables have been installed on rubber connectors to prevent excessive extension from occurring due to pressure thrust of the line in the event of anchor failure or due to pressure thrust of an unanchored line. (NOTE: For maximum vibration transmission reduction, the pipe section beyond the threaded metal/rubber connector must be anchored or sufficiently rigid.)

### PIPE SUPPORT:

⇒ Piping must be supported so rubber connectors do not carry any pipe weight.

### THREADED PIPE ATTACHMENT:

⇒ Verify face to face dimension, (takeout area between pipes), equals the recommended pipe opening listed on opposite side of tag. If installed length differs, movement allowables will be reduced. Do not exceed min/max installed lengths.

⇒ Prepare male pipe threaded connections by cleaning any loose sediment that may have formed during installation.

⇒ Apply plumbers tape or pipe dope to the male thread ends to ensure a positive seal when threaded

female ends of the rubber connector are installed into the piping system.

⇒ Unbolt and remove control cables from rubber connectors and set aside.

⇒ Loosen union nuts on both ends of rubber connector to enable threaded female ends to rotate freely. Compress and install rubber connector between male pipe ends.

⇒ Thread both sides simultaneously to insure proper and easy fit-up. tighten union nuts on both sides of rubber connector per pipe fitter industry standards. Reinstall control cables to rubber connectors.

⇒ Verify neutral length of installed rubber connector with chart shown below. If different, refer to threaded metal/rubber connector technical brochure for allowable movement capabilities based on installed length.

⇒

Pipe Size	Style	Neutral Length	Recommended Pipe Opening	Minimum Installed Length	Maximum Installed Length
3/4	ST	8.00	6.25	7.34	8.11
	SP	7.54	5.25	6.44	7.11
1	ST	8.00	6.25	7.34	8.11
	SP	6.77	5.25	6.44	7.11
1 1/4	ST	8.00	6.25	7.34	8.11
	SP	6.93	5.25	6.44	7.11
1 1/2	ST	8.00	6.25	7.34	8.11
	SP	7.17	5.25	6.44	7.11
2	ST	8.00	6.25	7.34	8.11
	SP	8.35	5.25	6.44	7.11
2 1/2	ST	8.00	6.25	7.34	8.11
3	ST	8.00	6.25	7.34	8.11

**NOTE:** ST = Standard  
 SP = Special  
 High pressure designs are available in "ST" Lengths.  
 Sizes shown are in inches.

Pressure Connections	Maximum Operating Pressures	
	Positive PSIG	Negative In. Of Hg.
Standard Pressure	150	26
High Pressure	250	26

### STORAGE:

⇒ Store connectors in a dry/cool location such as a warehouse.

⇒ Ten year shelf life can be expected with ideal conditions.



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### **ADDITIONAL TIPS:**

- ⇒ Do not weld in the near vicinity of a threaded metal/rubber connector.
- ⇒ Check the tightness of connection after a first full cycle and retighten as necessary. Check during routine maintenance inspections.

**WARNING:** *Threaded metal/rubber connectors may operate in pipelines or equipment carrying fluids and/or gases at elevated temperatures and pressures and may transport hazardous materials. Precautions should be taken to protect personnel in the event of leakage or splash. Threaded metal/rubber connectors should not be installed in inaccessible areas where inspection is impossible*