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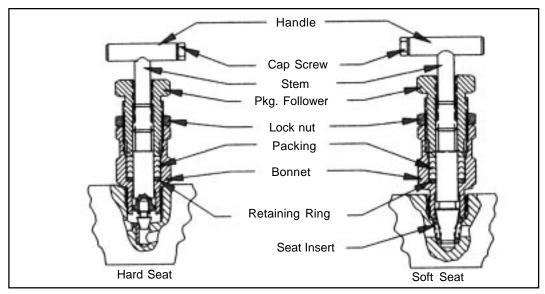
Installation & Maintenance Instructions for

**Maintenance Manual** 

Manifold Valves

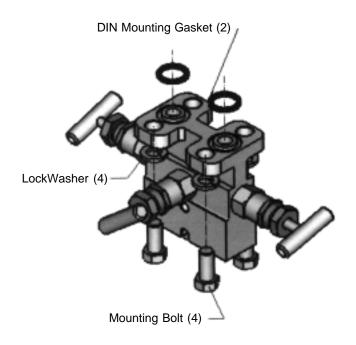
Warning: Hex Valve Manifold Valves must only be used, installed, and repaired in accordance with these Installation & Maintenance Instructions. Observe all applicable public and company codes and regulations. In the event of leakage or other malfunction, call a qualified service person; continued operation may cause system failure or a general hazard.

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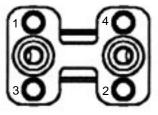


### **Manifold Installation**

- 1. If manifold is flanged, fit DIN manifold gaskets (2) over bushings and into groove.
- 2. Position manifold flange over transmitter, place lockwasher on bolt (4) and thread bolts finger tight into transmitter



3. Apply torque 50-55 foot pounds in a diagonal sequence as shown, making sure gaskets are properly seated in grooves.



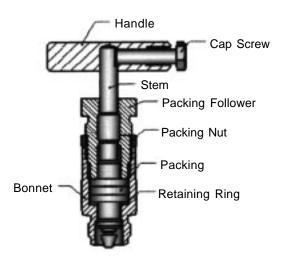
- 4. Use Teflon tape, thread lubricant or other user approved compound for NPT connections.
- 5. Blow down instrument impulse lines prior to installation of instrument manifolds.

# **Packing Disassembly**

- 1. Loosen the handle cap screw and remove the handle.
- 2. Remove the packing nut and packing follower from the bonnet.
- 3. Remove the packing from the bonnet.

#### **Packing Reassembly**

- Inspect stem and packing chamber bore. Replace stem
  if damaged or shows evidence of corrosion in the area
  of the packing. (The bonnet must be removed from
  the body to replace the stem. Lubricate the bonnet
  threads prior to reinstalling bonnet into body and torque
  it to 55 ft-lbs.)
- 2. Lubricate the **stem** in the packing area with an Anti-Seize compound such as "THRED-GARD".
- 3. With the **retaining ring** in the packing chamber, install the four pieces of Teflon Chevron **packing**, or three pieces of Braided or Graphite **packing**, one piece at a time.
- 4. Install the **packing follower** and **packing nut** and tighten with just enough torque to seal the **packing**.
- Put the handle back on stem and retighten the cap screw.



# **Packing Adjustment**

- Loosen the packing nut and rotate the stem back and forth a few times before making any adjustments to the packing compression.
- After tightening the packing nut, again rotate the stem back and forth.

# **Repairing Soft Valve Seats**

- Remove the **bonnet** from the **body**. Using a 3/16" diameter rod, remove the old soft **seat** by placing the end of the rod through the center flow hole of the seat and with the rod pivoting on top of the body, popping the **seat** out through the bonnet port.
- 2. Install new soft **seat** in **body**, lining up the holes in the center of the seat and the body waterway. Put the rod through the seat hole and body waterway to keep the holes aligned when the **bonnet** is installed.

Install the **bonnet**, using 55 ft-lbs torque. Note: Bonnet retaining pin should be installed to prevent inadvertent bonnet removal.

Caution: Stem should not hit rod during assembly.