



# VALVE

# Maintenance Instructions

## HN49 NEEDLE VALVE

### Packing Disassembly

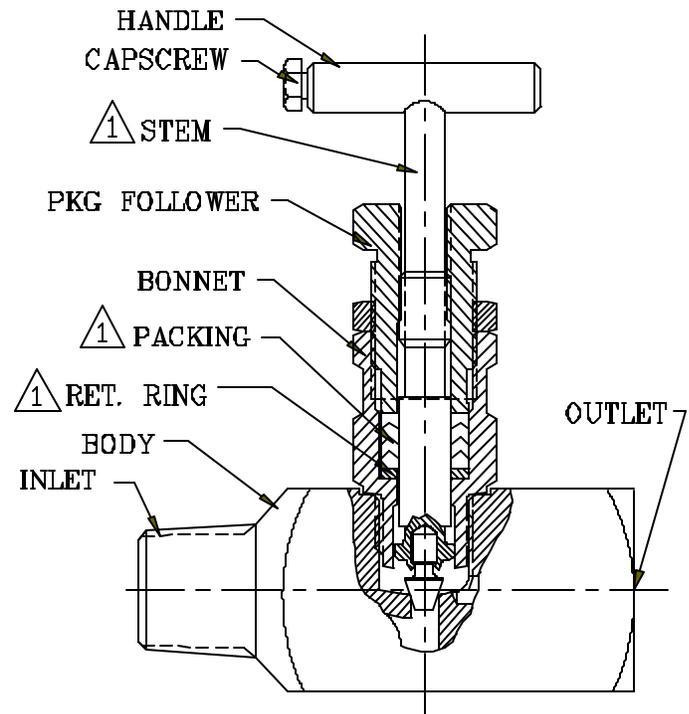
- 1) Loosen the handle **cap screw** and remove **handle**.
- 2) Remove **packing nut** and **packing follower** from the **bonnet**.
- 3) Remove the **packing** from the **bonnet**.

### Packing Reassembly

- 1) 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 the body, and torque it to 55 ft-lbs.*)  
Note: **Bonnet retaining pin** should be installed again to prevent inadvertent **bonnet** removal.
- 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 three 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**.
- 5) Put the **handle** back on **stem** and retighten **cap screw**.

### Packing Adjustment

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



### Repairing Soft Seats

- 1) 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 holes in the center of the seat and body waterway. Put the rod through the seat hole and body waterway to keep the holes aligned when the **bonnet** is installed.
- 3) Torque the **bonnet** to 55 ft-lbs. and reinstall **retaining pin**.

**Caution: Stem should not hit rod during assembly.**

**Hex Valve**

Division of Richards Industries  
3170 Wasson Road • Cincinnati, Ohio 45209

**Call Hex Toll-Free:**

800/543-7311 (USA) • 800/354-0305 (Canada)  
Fax 513/871-0105 • Phone 513/533/5600