



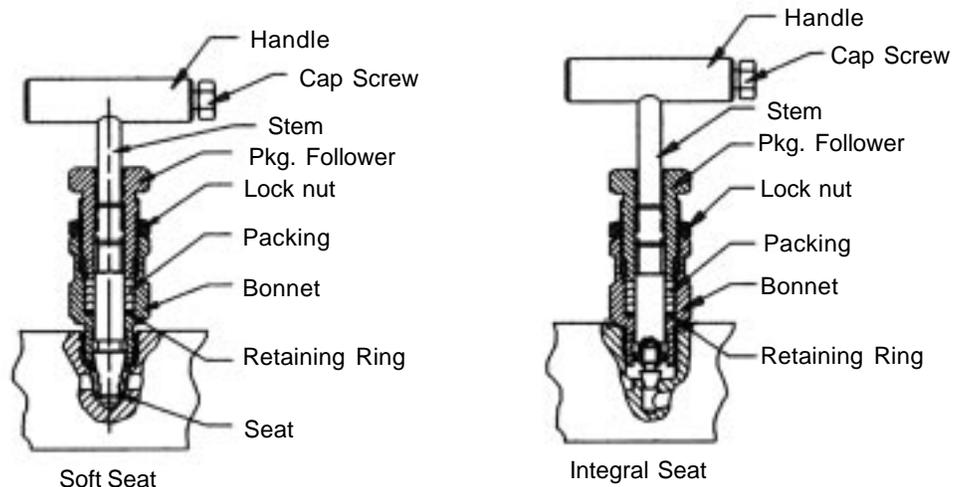
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# Maintenance Manual

## Installation & Maintenance Instructions for Screwed Bonnets

**Warning:** Hex 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.

HB50  
HB51  
HB59  
HE36  
HE40  
HE44  
HG35  
HG48  
HG55  
HG56  
HN49



### 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

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 **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**.
5. 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 packing compression.
- After tightening the **packing nut**, again rotate the stem back and forth.

### Repairing Valve 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 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.
3. 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.**