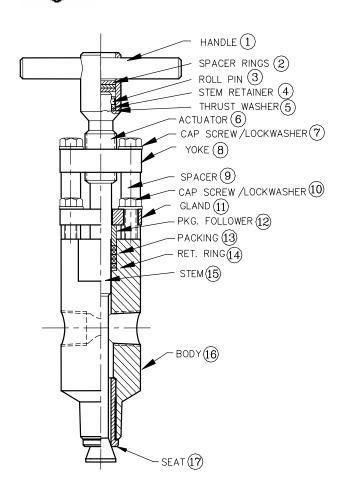


# **Maintenance Instructions**

#### **HS31 SAMPLE AND DRAIN VALVE**



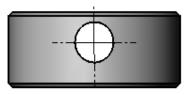
## **Packing Disassembly**

- 1) Remove the **handle** (1) by tapping through **actuator** (6) using hammer.
- 2) Remove the **spacer rings** (2) from inside the **actuator** (6) exposing the top of the **stem** (15).
- 3) Thread **actuator** (6) into **yoke** (8) by turning counterclockwise until the **roll pin** (3) and **stem retainer** (4) are visible in the **actuator** (6) handle hole.
- 4) Remove **roll pin** (3) from **stem** (15) and remove **stem retainer** (4). NOTE offset of pin hole in **stem retainer** (4). **Stem retainer** (4) must be reassembled in same orientation. See figure 1.

#### **Hex Valve**

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

### HANDLE SIDE



#### VALVE BODY

Figure 1. Stem Retainer (4)

- 5) Remove **actuator** (6) from **stem** (15) and **yoke** (8) by turning clockwise. **Thrust washer** (5) can remain in **actuator** (6).
- 6) Remove **cap screws** (7) and (10) to allow removal of **yoke** (8), **spacers** (9) and **gland** (11).
- 7) Remove stem (15) from body (16), then packing follower (12), packing rings (13), and retaining ring (14), noting the order each ring is placed in packing chamber to insure new packing is installed in same order. See figure 2.

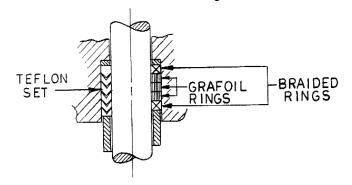


Figure 2. Packing Arrangement (13)

### **Packing Reassembly**

- Inspect stem (15) and packing chamber bore. Replace stem (15) if damaged or shows evidence of corrosion in the area of the packing. Make sure stem (15) and bore are clean and free of packing or debris. Use solvent only to clean the stem (15) and packing chamber bore.
- 2) Lubricate the **stem** (15) in the packing area with an Anti-Seize compound such as "THRED-GARD".
- 3) Install the **stem** (15) in the **body** (16).

#### **Call Hex Toll-Free:**

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

# **Maintenance Instructions**

#### HS31 SAMPLE AND DRAIN VALVE

- 4) With the handle (1) removed from the stem (15), install the retaining ring (14) first onto the stem (15), followed by the rings of packing (13). Packing rings (13) should be pushed into the packing chamber one at a time with a blunt instrument or a cylinder that fits over the stem. Do not use a screwdriver or knife.
- 5) Slide the **packing follower** (12) over the **stem** (15). Install the **gland** (11) and hand tighten the two short **cap screws** (10).
- 6) Put the **yoke cap screw spacers** (7) in place, position the **yoke** (8), and loosely install the **cap screws** (7).
- 7) Thread the actuator (6) into the yoke (8) until the end of the stem is exposed through the handle hole. Make sure the stem does not bind, but rotates smoothly and is pushed against the seat (17).
- 8) Continue to reassemble using steps 1-4 above in reverse.
- 9) Tight all **cap screws** (7) and (10) when **stem** (15) and **handle** (1) assemble is complete and operates smoothly without binding.

## **Packing Adjustment**

- Loosen the packing gland (11) using the cap screws (10) and rotate the stem back and forth a few times before making any adjustments to packing compression.
- After tightening the **packing gland** (11) again rotate the **stem** (15) back and forth.