



MULTIPOINT OPERATION & MAINTENANCE MANUAL

SERIES 604

Milliken Valve Company
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OPERATION & MAINTENANCE

MAINTENANCE-THREE WAY VALVES

Should the plug need adjustment in the seat to compensate for wear, or to give a tighter shutoff, refer to Data Sheet S2040-Plug Seat Adjustment-Three Way Valves.

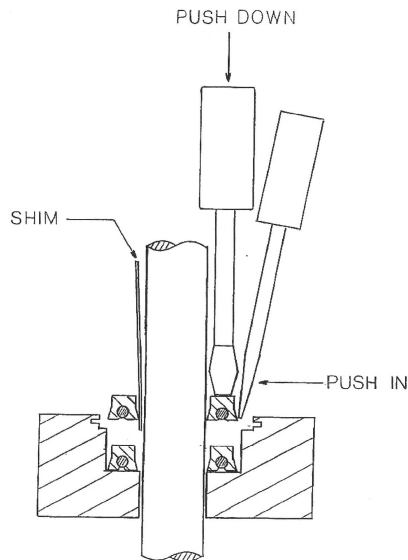
The only item that may need to be replaced are the “U” Cup Seals, which are used as the stem packing.

The procedure for this is as follows:

Remove snap ring using snap ring pliers. Remove thrust washer. The “U” Cup seals are now visible. Using a screwdriver, pry out the old seals.

Apply a small amount of silicone or grease to the new “U” cup seals. This will help them slide in the packing cavity. Put a piece of shim stock in the cavity and put the “U” cup over it. Slide the “U” cup over the stem with shim stock against the stem. This will let any trapped air out of the packing cavity. Now, using two screwdrivers, coax the outer lip of the “U” cup with the other screwdriver (see attachment). Continue to do this all the way around until the “U” cup is at the bottom of the packing cavity.

Repeat the procedure with the second “U” cup, and replace the thrust washer and snap ring.



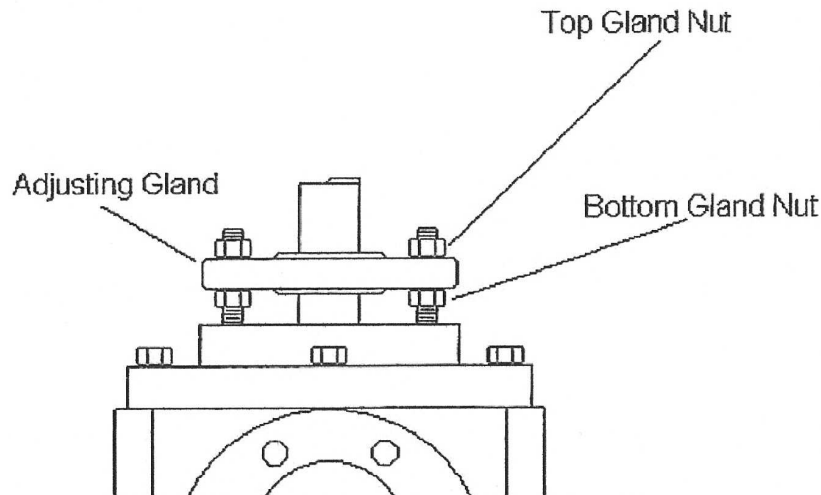
OPERATION & MAINTENANCE

SEAT ADJUSTMENT

Plug to seat adjustment is factory set to provide the best possible shut-off with the least amount of rotating torque. If increasing or decreasing seat force is necessary, follow instructions as listed.

To Decrease Seating Force (Lift Plug)

1. Loosen Top Gland Nuts several turns.
2. Turn Bottom Gland Nuts counterclockwise, each $\frac{1}{2}$ turn at a time until proper plug elevation is reached.
3. Tighten Top Gland Nuts.



To Increase Seating Force (Lower Plug)

1. Loosen Bottom Gland Nuts several turns.
2. Turn Top Gland Nuts clockwise, each $\frac{1}{2}$ turn at a time until proper plug elevation is reached.
3. Tighten Bottom Gland Nuts.

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SPARE PARTS

COMPONENT	NUMBER PER VALVE
"U" Cup Seal	2
Elastomer Coated Plug	1
Bonnet "O" Ring	1

If required these parts can be ordered from:

**Milliken Valve Company, Inc,
Bethlehem, PA 18020
Phone: (610) 861-8803
Fax: (610) 861-8094**

When ordering please furnish:

1. Size
2. Figure Number
3. Component by name
4. Quantity required

LUBRICATION SCHEDULE

The Millcentric is a low maintenance non-lubricated eccentric plug valve. As such there is no required lubrication of the valve itself.

The manual worm gear operators where applicable are also sealed grease lubricated units and should not require any type of periodic lubrication. Should the unit need to have lubricant replaced it is recommended that **Shell "Alvania" #2.**

SAFETY

When the gear actuators have the cover removed, extra caution should be taken to make sure hands or fingers are away from moving parts. Close fitting clothing should be worn so as to avoid getting caught in the moving gears.

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FUNCTION

The Multiport valve is a non-lubricated plug valve designed for use in water and wastewater applications, and HVAC systems.

TEMPERATURE LIMITS

The operating temperature is controlled by the elastomer specified and are as follows:

<u>Elastomer</u>	<u>High Temp</u>	<u>Low Temp</u>
BUNA N	225F	-20F
EPDM	250F	-35F
Neoprene	225F	-20F
Viton	400F	-10F

Figure 604 Multiport-ANSI Class 125

<u>Size Range</u>	<u>Rate Pressure*</u>	<u>Shell Hydro</u>	<u>Seat Test**</u>
3"-16"	175 psi	350 psi	175 psi

*Pressure Rating is given at ambient temperatures

**Valves DO NOT have drip tight shutoff