FluoroSeal

OPERATING AND MAINTENANCE

INSTRUCTIONS

FOR

SLEEVED PLUG VALVES

Operating & Maintenance Instructions

FluoroSeal valves require little or no maintenance and when properly applied can be expected to give long trouble free service.

Seal Adjustments

All FluoroSeal valves are factory adjusted and pressure tested for bubble tight seal. Normally further adjustment is not required. Should seepage occur at the plug stem or downstream the following adjustment procedure should be followed:

Locate the three adjusting bolts spaced at (**120°)** from each other around the plug stem. Each of these bolts should be tightened in (**1/4)** turn increments until seepage stops. Care should be taken to prevent over adjusting as this will result in excessive operating torque. The valve should be operated a full cycle after each adjustment.

Should seepage still occur after adjustment, seals may require replacement.

Top Seal Replacement

Caution: **Before attempting to disassemble the valve care should be taken to flush out any hazardous fluids and release entrapped pressures. Failure to do so could result in serious injury.**

Disassembly Procedure

- Back off the three adjusting bolts until they are several turns clear of contact with the thrust collar.
- Rotate the plug one or two times which will allow the plug to pop up from the sleeve seal relieving any pressure that may be trapped below the plug.
- The cover bolts should then be loosen four complete turns only and the plug rotated one or two cycles, or until it is evident the plug is loose not allowing trapped pressure.
- All of the cover bolts and then the cover should be removed.
- With a twisting motion lift the plug from the body.
- Discard all of the PTFE components and metal diaphragm from the plug stem, but retain the metal thrust collar for reuse.
- The plug and sleeve should be flushed and wiped clean of any residue and visually inspected for any damage before reassembly.

Reassembly

Refer to Fig. No.1*

Place the plug in the body with the ports in the open position. New top seal components should be placed on the plug stem in the following order:

- Combination PTFE diaphragm and stem seal collar.
- PTFE delta ring.
- Combination formed metal diaphragm and static eliminator.
- The used thrust washer should be placed on top of the metal diaphragm.
- The adjustment bolts should be backed off flush with bottom of cover bore.
- Place the cover over the plug stem.
- Press the plug into the body using a press until the plug port opening is approximately **(1/16)** inch above the bottom of the body port opening.

Make sure the PTFE diaphragm is sitting in the inner counter bore of the body and the metal diaphragm and seating shoulder of the cover are sitting in the outer body bore.

The cover bolts should then be tightened uniformly to the following torque values:

Bolt Size	Ft/lbs
5/16"	12
3/8"	20
7/16"	35
1/2"	45
5/8"	95
3/4"	130

Tighten the adjusting bolts uniformly (1/4) turn at a time until contact is made with the thrust collar, plus (1/4) turn each to seat the plug.

Replace the wrench or gear operator assembly and rotate the plug one full cycle.

Leave the plug in the open position until installation.

Should further assistance be required contact your distributor.

Figure 1


Adjustment Bolts
Cover
Cover Bolts
Thrust Washer
Metal Diaphragm
PTFE Delta Ring
PTFE Diaphragm
Plug
PTFE Sleeve
Body