

FluoroSeal Inc.



SEVERE SERVICE (FE) VALVES OPERATING & MAINTENANCE INSTRUCTIONS



FLUOROSEAL VALVES REQUIRE LITTLE OR NO MAINTENANCE AND WHEN PROPERLY APPLIED CAN BE EXPECTED TO GIVE LONG TROUBLE FREE SERVICE.

HANDLING & STORAGE INSTRUCTIONS

FluoroSeal® Plug Valves are normally shipped overland in cardboard boxes or on skids, and when overseas, in crates with plastic lining and dessicant bags. Skids or crates can be handled with care using a forklift. Boxes can generally be hand-carried.

End protectors should only be removed immediately prior to installation. Short to medium term storage should be in a dry, preferably covered, environment. Long-term storage requires crating and plastic lining as well as periodic inspection and replacement of dessicant bags as required.

INSTALLATION INSTRUCTIONS

Install valve into your process line according to the following instructions:

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 two adjusting bolts (see figure 1, page 5). 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.

TOP SEAL REPLACEMENT — DISASSEMBLY PROCEDURE

- Back off the two adjusting bolts until the plug adjuster is clear of contact with the locking stop (actuator) stop
- Pull off the plug adjuster, thrust bearing, locking (actuator) stop and shaft adaptor
- The packing bolts should be loosen four complete turns only and plug rotated one or two cycles
- The packing bolts then packing gland should be removed
- 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 bonnet 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 bonnet bolts and then the bonnet with all sealing and metallic components should be removed
- With a twisting motion lift the plug from the body

- Discard all of the sealing and metallic components from the bonnet, but retain the follower, seal washer and seal retainer
- The plug and sleeve should be flushed and wiped clean of any residue and visually inspected for any damage before reassembly

TOP SEAL REPLACEMENT — REASSEMBLY

Refer to Appendix A — Figure 1

Place the plug in the body with the port in the open position.

Place the bodyseal, graphite ring and bodyseal retainer in the body top bores.

Place the bonnet on the body.

New sealing and metallic components should be placed in the plug stem in the order shown in Figure 1.

Place shaft adaptor, locking (actuator) stop, thrust bearing and plug adjuster on 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 bodyseal is sitting in the inner counter bore of the body and the graphite ring and bodyseal retainer are sitting in the outer body bore.

The bonnet and packing bolts should then be tightened uniformly to the following torque values:

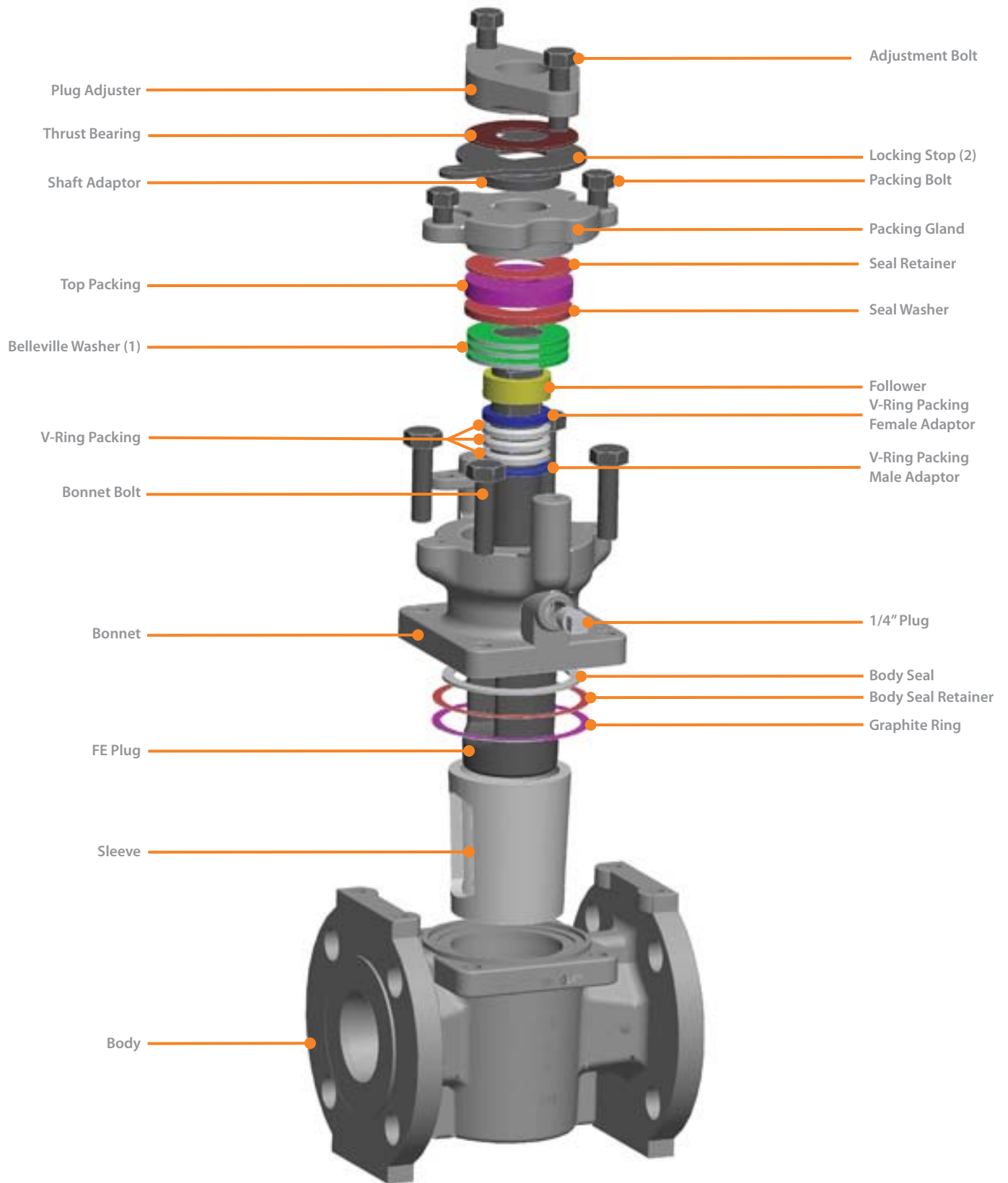
Bolt Size	Ft.lbs
5/16"	12
3/8"	20
7/16"	35
1/2"	45
5/8"	95
3/4"	130
1"	180

Tighten the adjusting bolts uniformly (1/4) turn at a time until contact is made between plug adjuster and locking (actuator) stop, 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.



(1) Belleville washers quantity depends on valve size.
 (2) Locking stop for 1/2" to 4" valve.