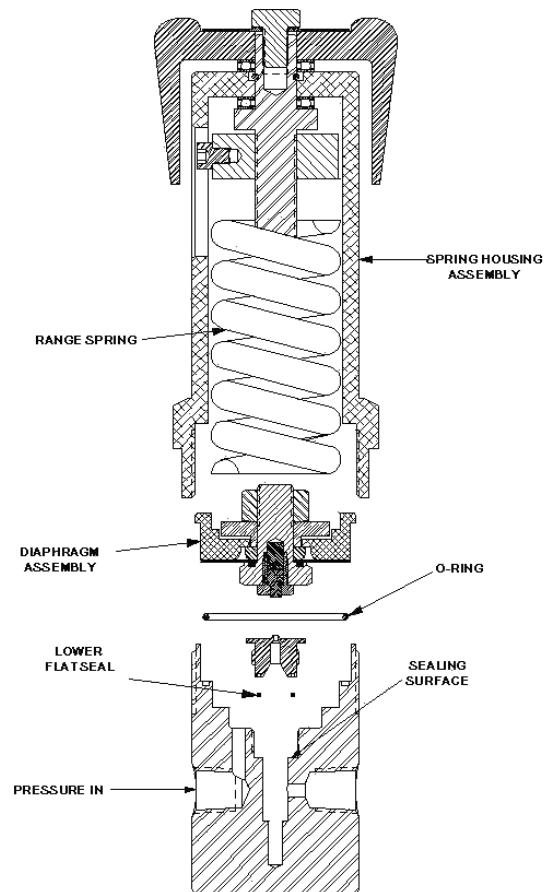


BP-60 Back Pressure Control Regulators Diaphragm/Seat Replacement Instructions

**Make sure you thoroughly understand these directions before proceeding
MAKE SURE THE REGULATOR IS DISCONNECTED FROM AIR SOURCE
MAKE SURE ANY RESIDUAL PRESSURE IS BLEDED OFF FROM REGULATOR.**

Instructions

1. Completely read these instructions before performing any of the operations.
2. Make sure the regulator is disconnected from pressure source; make sure any residual pressure is bled off from the regulator.
FAILURE TO DO THIS WILL RESULT IN SERIOUS PERSONAL INJURY. DO NOT PROCEED UNTIL PRESSURE HAS BEEN REMOVED AND/OR TERMINATED
3. Securely clamp the regulator over the flats in a vise.
4. Turn the adjustment knob counterclockwise, as looking from the top of the regulator, until it will turn no further.
5. Using a 2 ¼" wrench, remove the spring housing assembly from the body.
6. Remove the range spring.
7. Remove the diaphragm assembly.
8. Remove the seat.
9. Carefully remove large O-ring from regulator body.
10. Clean seat surface with a cotton swab moistened with isopropyl alcohol.
11. Place new lower flat seal in the seat.
12. Place the seat in the body and start the threads by hand. Tighten the seat hand tight. Finish tightening seat retainer to 25 lbf·ft (34 N·m). (15 lbf·ft (20 N·m) for brass body)
13. Apply O-ring lubricant, such as Krytox grease, into groove in regulator body if new O-ring is dark color. Do not apply lubricant to groove if new O-ring is white color. Install new O-ring into groove.
14. Place new diaphragm assembly onto regulator cavity.
15. Place a small amount of Krytox or other lubricant on the outer threads of the body if the regulator body is steel. Do not apply lubricant to threads if regulator body is brass.
16. Put the cap over the regulator and engage threads by hand. Tighten hand tight.
17. Finish tightening cap to 80 lbf·ft (81 N·m).
18. Attach a pressure gauge and source of pressure to the inlet port.
19. Squirt a leak detecting fluid around the base of the cap where it meets the body. Agitate the fluid to form foam and apply this foam around the slot in the spring housing assembly.
20. Slowly turn the knob clockwise while applying inlet pressure. As you apply more pressure to the inlet, gas will escape from the outlet. Turning the knob more turns clockwise will stop the gas escaping from the outlet.
21. Continue applying inlet pressure and turning the knob until a back pressure equal to 110% of the maximum rating



for this regulator has been attained. Reapply the leak detecting fluid as needed.

22. Let stand for 2 minutes. If no leaks are noticed, you may proceed to the next step.
23. Relieve the source of pressure while backing off on the adjusting knob. Continue backing off on adjustment knob until it is all the way out and will turn no further. Install pry-out plug into top of knob.
24. The regulator is now ready for service.

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