

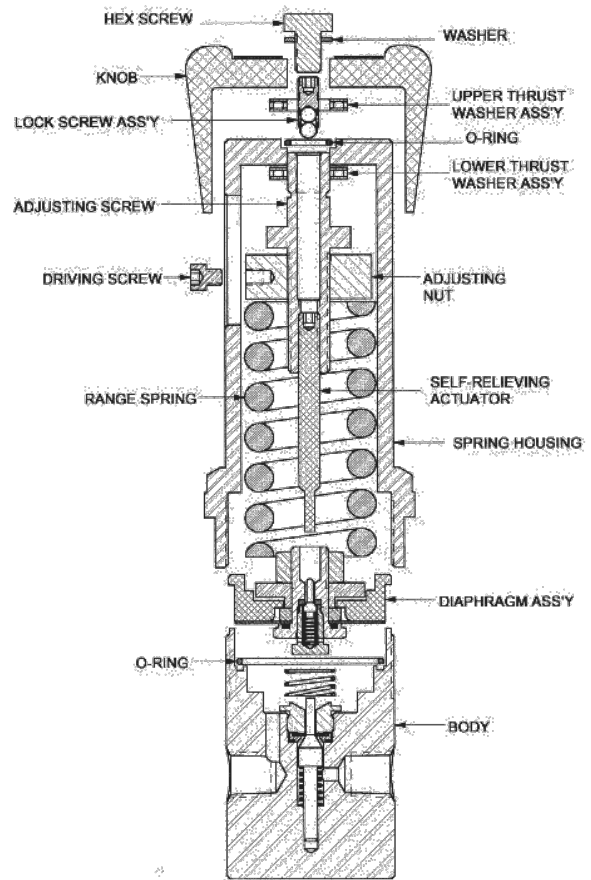
## PR-50 Series High Pressure Regulator Adjustment of the Self Relieving Mechanism

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

**FAILURE TO DO THIS WILL RESULT IN SERIOUS PERSONAL INJURY.  
DO NOT PROCEED UNTIL PRESSURE HAS BEEN REMOVED AND/OR TERMINATED**

### Adjusting Instructions & Leak Testing

1. Attach inlet pressure line to the inlet port with suitable fittings.
2. Attach a quarter-turn valve and gauge to the outlet port. Leave the valve in the open position.
3. Use a 9/16" box end wrench and slowly turn adjusting screw clockwise. When there is evidence of flow at the quarter-turn valve close it.
4. Squirt a leak detecting fluid, such as "Leak Detective" or soapy water, around the base of the spring housing where it meets the body.
5. Slowly apply inlet pressure, up to the maximum rated value, to the unit while watching and listening for any leaks. If leaks are present, immediately relieve inlet pressure. The unit must be disassembled and inspected for foreign debris. If no leaks are present, let stand under pressure for at least 60 seconds. If there is still no evidence of leaking, continue to the next step.
6. Agitate the leak detecting fluid to form a foam. Apply this foam around the slot in the spring housing while watching for signs of escaping gas.
7. Turn the adjusting screw clockwise until the outlet gauge reads a pressure equal to 50% of the maximum rated pressure range for this unit. Watch the foam that was put around the slot in the spring housing for any signs of escaping gas. It may be necessary to re-apply the foam. If no signs of leakage are present proceed to the next step.
8. Engage the socket of the self-relieving actuator with a 1/8" hex key. Slowly turn the hex key clockwise until it makes contact with the self-relieving poppet. You will hear escaping gas when this happens, or notice a drop in outlet pressure.
9. Turn the hex key counter-clockwise 1/8 to 1/4 of a turn. Remove the hex key.
10. Drop the lock screw assembly down the hole in the adjusting screw. Lightly tighten with the 1/8" hex key, being careful not to change the position of the self-relieving actuator.
11. Turn the adjusting screw counter-clockwise. You should hear the outlet pressure venting through the spring housing and notice the outlet pressure drop to zero. If the outlet pressure does not fall completely to zero, it will be necessary to re-adjust the self-relieving actuator.



12. Turn the adjusting screw clockwise until the outlet gauge reads a pressure equal to 100% of the maximum rated pressure range for this unit. Put more foam around the slot in the spring housing. If any leaks are present, immediately turn the adjusting screw counter-clockwise to relieve the outlet pressure and search for the cause of leakage.
13. If no leaks are present, let stand under pressure for at least 60 seconds. If there is still no evidence of leaking, proceed to the next step.
14. Turn the adjusting screw counter-clockwise. You should hear the outlet pressure venting through the spring housing and notice the outlet pressure drop to zero. If the outlet pressure does not fall completely to zero, it will be necessary to re-adjust the self-relieving actuator.
15. Place one of the thrust plates of the thrust washer over the hexagonal end of the adjusting screw. Apply a liberal amount of grease.
16. Place the bearing race on top of the thrust plate. Apply a liberal amount of grease.
17. Place the other plate over the bearing race.
18. Place the knob on the end of the adjusting screw. Push down by hand as far as it will go.
19. Place the washer and hex screw on top of adjusting screw.
20. Tighten the hex screw to a value of 20 lbf.in (2 N.m). DO NOT OVER TIGHTEN. Over tightening will cause excessive load on the upper thrust bearing which will make the knob very hard to turn.

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## ***GO Regulator***

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