PROCEDURE FOR INSTALLING EXTERNAL CONTROL LINE TO THE DC GOVERNOR

Pietro Fiorentini
4555 South Berkeley Lake Road
Norcross, GA 30091
770-441-6400 FAX: 770-448-7312
1-888-618-8787
www.fiousa.com
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1. The external control line installation is approved by CSA. Make sure before installation that the piping is clear of all oil, debris and has been tested for leaks.
2. All work should be carried out by trained, qualified and authorized personnel using the correct tools and equipment to install and adjust the regulator to all relevant standards, local codes, requirements and procedures. Make sure the piping is supported and no stressful force is placed upon the regulator. The regulator can be mounted in any position with the directional flow arrow facing in the direction of the flow. Preferably, the regulator should be mounted in a vertical position on the pipe with the pressure adjustment screw upright. If using an external vent limiter, the flat top of the vent limiter must be facing up, with the threads facing down, so it operates properly. If mounting the regulator in any position other than horizontal, you must use the 90 degree external vent limiter adapter to ensure the vent limiter faces up. When venting is required, remove the cover of the vent cap using a union at the connection, then connect the vent pipe, being careful to place the outlet in a safe place in accordance to all local codes, standards, and requirements.
3. A drawing is provided below for reference.
4. The external control taps must be installed in the downstream piping a minimum of 4 pipe diameters from where the pipe increases to its largest size. The pipe taps should be a minimum of 1/4"NPTor larger for ½" through 1" regulators. 1 ¼" and larger should be at least ½" NPT. These lines should be separated because if one line would get damaged the other one would still control and limit the downstream pressure.
5. The DC regulators with external control comes with an external sensing line tapped on the lower diaphragm case. 1/8" tubing is sufficient for ½" to 1" Governors and 1/4" or 3/8" OD tubing should be used for 1 1/4" sizes and above.
6. Plug the Worker regulators internal sensing line pitot tube with silicone.
7. Connect the first cut regulator sensing line to tap A
8. START UP: Partially open before any use of the test ports if used. If the test points have a plastic pipe cap in them, and if so, remove the cap or. if they are not activated, with the regulator removed from the line, activate the port by drilling a 1/16" hole in the port. Install the regulator and connect the gauge to the port. Slowly open the inlet shut-off valve and check for leaks within connected measuring equipment. Continue the start up as indicated in .
9. PRESSURE REGULATION ADJUSTMENT: The Governor DC are set by the factory to the regulation pressure indicated on the regulator. You will need a 7/16" Allen wrench to remove the cap 1, and 7/16" or 8mm Allen wrench on 1/2" to 1 1/2" models and 7/16" or 12 mm Allen wrench on 2" and larger models to adjust the spring. The spring range pressure settings are indicated on the nameplates. To adjust pressure, unscrew cap 1, turning ring nut 4 clockwise to increase the pressure, and counter-clockwise to decrease the pressure.
10. On the Worker regulator S, remove the spring cap . With the use of a 7/16" Allen wrench, remove spring nut, and then remove the spring.

11. On the first cut regulator M is set at 1.8 PSIG no adjustment is required.
12. Partially open the downstream vent or fitting l so gas may be vented.
13. Slowly open the inlet shut-off valve.
14. Turning the adjusting spring nut, adjust the Worker regulator S setting up to the desired value shut the bleed line and check for lock up.
15. If the regulator locks up, open the outlet valve and make your final adjustments to the equipment
16. Reinstall the spring cap on the worker and when the measuring equipment is disconnected, plug the test port by using a threaded plug.

Refer to the installation manual for further instructions.