



PROCEDURE FOR INSTALLING EXTERNAL CONTROL LINE TO THE GOVERNOR

Pietro Fiorentini

4555 South Berkeley Lake Road
Norcross, GA 30091
770-441-6400 FAX: 770-448-7312
1-888-618-8787
www.fioussa.com
9/15

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" NPT or larger for 1/2" through 1" regulators. 1 1/4" and larger should be at least 1/2" NPT.
5. The regulators with external control comes with an external sensing line tapped on the lower diaphragm case. 1/8" tubing is sufficient for 1/2" to 1" Governors and 1/4" or 3/8" OD tubing should be used for 1 1/4" sizes and above.
6. Plug the internal sensing line with silicone sealant.
7. **START UP:** Slowly, partially the before any use of the test ports, if you are going to use them. The test points usually have a plastic pipe cap in them, and if so, remove the cap. 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 step 2. When the measuring equipment is disconnected, plug the test port by using a threaded plug.
8. **PRESSURE REGULATION ADJUSTMENT:** The Governor 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, 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 the spring cap, turning ring nut 4 clockwise to increase the pressure, and counter-clockwise to decrease the pressure.

11. Partially open the downstream line so gas may be vented.
12. Slowly open the inlet shut-off valve.
13. Adjust the regulator set point per the above instructions.
14. Close the downstream vent and check for lock up.
15. If the regulator locks up, Open the outlet shut-off valve very slowly.
16. Start the equipment and make any final adjustment turning the adjusting spring nut, adjust the regulator setting to the desired value.
17. Reinstall the spring cap on the regulator and plug the test point connections.

Refer to the installation manual for further instructions.

