

BOISWOOD

GAS AND LIQUID CONTROL TECHNOLOGIES



HOW TO RESTRICT A PRESSURE REDUCING REGULATOR



It is general practice to have the outlet pressure range of a regulator able to reach it's maximum potential. The maximum outlet pressure of a regulator is often determined by the internal diaphragm and range spring. These are selected based on what outlet pressure range was originally specified for the regulator.

When requested it is possible to restrict a pressure regulator to a lower outlet range than what it is capable of. This could be required for a number of different reasons, including:

1. You have a pressure gauge that is lower than the maximum outlet range of the regulator
2. You need to prevent your line/system from seeing the maximum permissible outlet pressure
3. You want to reduce the likelihood of damaging the regulator or "over pressuring"

As an example scenario...your regulator has an outlet pressure range of 0 – 100 PSIG, but you only have a 0 – 80 PSIG pressure gauge. To prevent causing damage to the pressure gauge, you could restrict the regulator from being able to pass more than 80 PSIG on the outlet.

If you follow these guidelines it will not be possible for the pressure regulator to over range and go past the downstream/outlet set point.



GO Regulator



BOISWOOD ARE CERTIFIED BY BOTH CIRCOR GO REGULATOR AND GCE DRUVA TO SERVICE AND REPAIR REGULATORS IN OUR HEADQUARTERS WORKSHOP

It is recommended that the following steps are taken:

NOTE: The regulator can have upstream pressure applied prior to following the below steps

1. Remove the cap insert (GO Logo).
2. Loosen the knob nut from the adjusting screw.
3. Turn the knob down clockwise on the adjusting screw until it shoulders onto the top of the cap assembly (and cannot move down any further).
4. With pressure applied to the inlet port or upstream side of the regulator, use a hex key to wind the adjusting screw down clockwise until the required pressure is shown on the gauge .
5. Re-tighten the knob nut onto the top of the adjusting screw, ensuring you hold the knob when tightening the nut . Once completed place the cap insert.
6. You will then be able to fully back off the control knob to stop the pressure passing downstream.

