



Genie® Regulator™ Installation & Operation Instructions

Manufacturing Contact Information

A+ Corporation, LLC *Call for expert product application assistance:*
41041 Black Bayou Rd. Phone: (225)-644-5255 Website: www.geniefilters.com
Gonzales, LA 70737 Fax: (225)-644-3975 E-mail: sales@geniefilters.com

Safety Warnings

- ⚠ Failure to abide by any of the safety warnings below will result in release of fluid at full pipeline pressure and could result in serious injury or death.
 - ▶ Do not exceed any equipment pressure ratings.



An ISO 9001:2000 certified company



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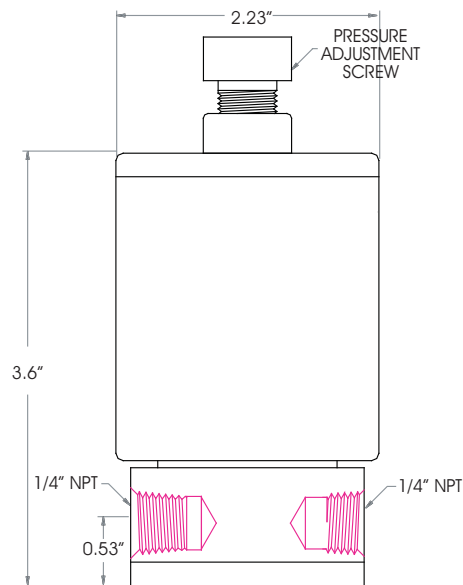
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Single Stage Pressure Regulation - Technical Specifications

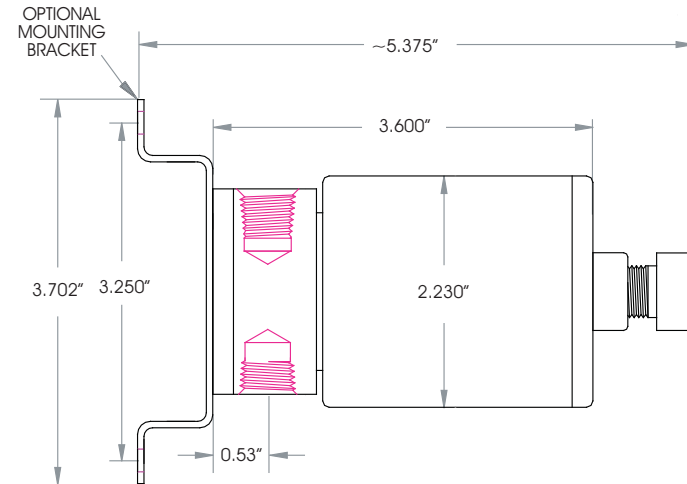
Maximum pressure rating	3,500 psig
Maximum temperature	300 °F (150 °C)
Minimum temperature	-40 °F (-40 °C)
Port sizes	1/4" female NPT
Outlet pressure range (psig)	0-10, 0-25, 0-50, 0-100, 0-250, or 0-500 *Specify outlet range when ordering
Wetted materials	Machined parts: 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Regulator seat material: Teflon® PFA Sealing material: Viton® standard

Dimensions

Front View



**Side View
 (shown with mounting bracket)**



Installation Instructions

Step 1. Depressurize the system

- ▶ Valve off the sample flow prior to installation of the **Genie[®] Regulator[™]**

Step 2. Connect the Genie[®] Pressure Regulator

- ▶ The Genie inlet and outlet ports are labeled. Connect tubing from the sample stream to the Genie Inlet port. Connect tubing from the Genie Outlet port to the next device in the sample system.
- ▶ The Genie port that is not labeled is an atmospheric reference port for the regulator. It is threaded so that optional tubing can be connected to this port to enable a “captured vent” if so required; however, this port should NOT be plugged or the performance of the regulator will be affected.

Step 3. Adjust pressure

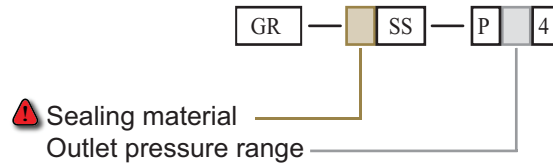
- ▶ At this point the sample pressure can be adjusted to the desired value. To raise the outlet pressure turn the pressure adjustment screw clockwise. To lower the outlet pressure turn the pressure adjustment screw counterclockwise while gas is flowing through the regulator.
- ▶ To allow sample flow, slowly open external valving.
- ▶ At high supply pressure, a sudden change may be observed on the downstream pressure gauge as the valve stem moves away from the seat. Slight re-adjustments may be necessary until the pressure and flow have equilibrated.
- ▶ Tighten the pressure adjustment screw lock nut firmly against the washer to prevent unintended changes in pressure adjustment.

Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. Choose options below.

Sealing material ⚠	0 = Viton [®] (other materials available upon request)
Outlet pressure range (psig)	0 = 0-25 1 = 0-50 2 = 0-100 3 = 0-250 4 = 0-500 9 = 0-10
Mounting bracket accessory	Part # GR-509-SS (sold separately)

How to build the model number:



- ⚠ We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors.
- ⚠ Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications section of the corresponding Product Sheet.
- ⚠ Please refer to www.dupontelastomers.com for sealing material recommendations and advice. It is the user's responsibility to specify the sealing materials and other materials of construction for their application.