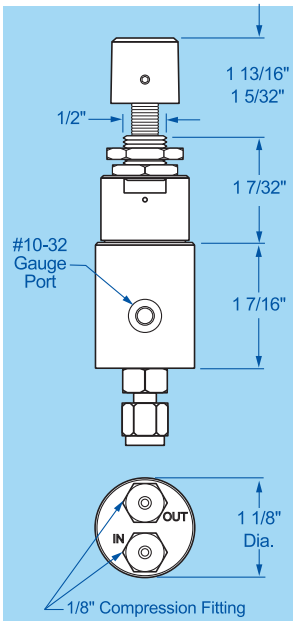


Pressure Regulators - Model 4000

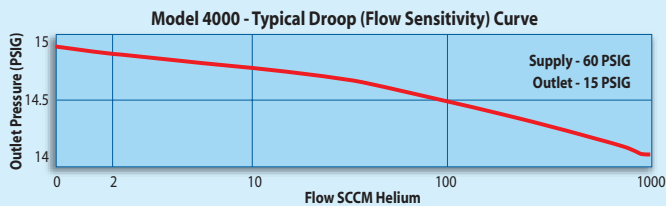
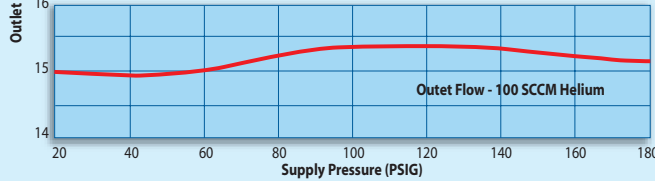
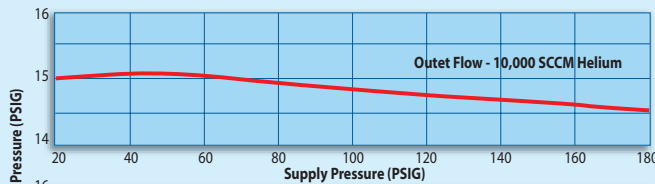


Specifications

The Porter Model 4000 Regulator is a high performance miniature sized pressure regulator with a compact diameter of only 1 1/8". It fits easily into the smallest of instruments, and yet its performance surpasses that of many competitive large diaphragm regulators. It is direct acting, non-relieving and provides minimal output change over a wide variation in supply pressure.



Model 4000 - Typical Regulator Output vs. Change in Supply Pressure (Supply Rejection)



Ordering Information

Model Number and Description

Model 4000
Example:

4000	A	M	B	S	30
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- Basic Model** → 4000
- Body Material** → A - Aluminum
- Spring Material** → M - Music Wire
- O-Ring Material** → B - Buna N, V - Viton
- Diaphragm Material** → S - Stainless Steel
- Range Spring PSIG** → 10, 30, 60, 100

To order, specify:

- Model Number
- Spring Range
- O-Ring Material

Design Features & Advantages: Specifications

- Miniature size
- Direct acting
- Non-relieving
- All bar stock construction
- Suitable for panel mounting
- Cleaned for analytical service

Materials of Construction

- Body:** Aluminum
- Bonnet:** Aluminum
- Poppet:** Stainless Steel
- Orifice:** Stainless Steel
- Diaphragm:** Stainless Steel
- Range Spring:** Music Wire

Flow Capacity: 15 slpm (typical maximum flow w/ 60 psig helium supply pressure and 15 psig outlet).
Ratings: Maximum operating pressure: 250 psig; Maximum operating temperature: 160°F.
Total Pressure Drop: Minimum 10 psi; Maximum 250 psi.
Performance: (60 psig helium supply pressure and 15 psig outlet).
 Supply Rejection: 10 psi change will not change outlet more than 0.05 psi.
 Ambient Temperature Effect (temperature coefficient): 0.013 psi/°F (0.024 psi/°C).

Drift: Less than 0.2% in first 15 minutes to a total of 0.6% long term.
Flow Sensitivity (droop): From 2 sccm to 250 sccm helium outlet pressure will not change more than 0.2 psi.
Baseline Oscillation: 0.0012 psi.
Precision Adjustment (resolution): 15 turns.

Regulating Ranges:

- 0 - 10 psig
- 0 - 30 psig
- 0 - 60 psig
- 0 - 100 psig

Connections: 1/8" Swagelok inlet and outlet. 10-32 UNF - 2B gauge port.