

Model 4000

Design Features

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

Specifications

Flow Capacity: 15 slpm (typical maximum flow with 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).

Materials of Construction

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

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" compression fittings, inlet and outlet. 10-32 UNF – 2B gauge.

Ordering Information

Model Number and Description

Example:

4000	A	M	B	S	30
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Basic Model

4000

9000

Body Material

A- Aluminum

S- Stainless Steel (9000 only)

Spring Material

M- Music Wire

O-Ring Material

B- Buna N

V- Viton

Diaphragm Material

F- Fairprene BN-5029 (9000 only)

S- Stainless Steel

Range Spring PSIG

10 (4000 only)

15 (9000 only)

30

60

100

To order, specify:

- Model Number
- Spring Material
- O-Ring Material



Model 9000

Design Features

- Precision regulation
- Compact size
- Soft seat
- All bar stock construction
- Pressure gauge connections
- Suitable for panel mounting

Specifications

Flow Capacity: 0 – 1000 sccm.

Ratings: Maximum operating temperature – 160°F.

Precision Adjustment (resolution): 15 turns.

Materials of Construction

Body: Aluminum or Stainless Steel
Bonnet: Aluminum
Orifice: Brass or Stainless Steel
Valve Seat: Viton
Diaphragm: Fairprene BN-5029 (Buna N on nylon) or Stainless Steel
Range Spring: Music Wire

Regulating Ranges:

- 0 – 15 psig
- 0 – 30 psig
- 0 – 60 psig
- 0 – 100 psig

Connections: 1/8" compression fittings, inlet, outlet and gauge.

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INSTRUMENT COMPANY, INC.