



Model 8601 Pressure Regulator

Model 8601

Mechanical Pressure Regulator

Model 8601 mechanical pressure regulators are compact, economical, high-precision supply pressure regulators. They are direct-acting, non-relieving units that provide bubble-tight shut-off on helium at 100 psi.

- Compact design
- Suitable for line or panel mounting
- Pressure gauge connection
- Bubble-tight shut-off to 100 psi
- Replaceable stainless steel inlet filter element

Product Specifications

Capacity	The pressure regulator is ideal for use at up to a maximum of 1,000 sccm air
Max. Inlet Supply Pressure	150 psi (1,034 kPa)
Max. Working Temperature	Standard: 140°F (60°C), Optional: 350°F (177°C)
Total Pressure Drop	Minimum: 10 psi, Maximum: 150 psi
Connections	Standard: 1/8" NPT; Optional 1/4" NPT, 1/8" or 1/4" compression fitting, 1/4" ID hose adaptors
Standard Seals & Fittings	Brass w/Buna-N, Stainless Steel w/Viton fluoroelastomer
Fittings	1/8" FNPT or 1/4" FNPT
Dimensions	See Dimensions Figure
Typical Characteristics	Helium 60 psig supply, 50 psig output
Drift	Less than 1% in first fifteen minutes to total of no more than 1.5% long term
Supply Pressure Effect	0 psi increase in supply will not change output more than 0.07 psi
Flow Regulation	From 3 sccm to 70 sccm helium, output pressure will not decrease more than: 0.08 psig (0-10, 0-30 psi Regulators) 0.10 psig (0-60 psi Regulators), 0.125 psig (0-100 psi Regulators), 0.15 psig (0-150 psi Regulators)
Ambient Temperature Effect	Standard 60 psi range, 0.020 psi/°F
Base Line Oscillation	.0025 psi
Valve Adjustment & Oper. Range	Fifteen turns for 0-10, 0-30, 0-60, 0-100, 0-150 psig output range
Materials of Construction	
Body	Standard: Aluminum; Optional: 316 Stainless Steel
Bonnet	Aluminum
Valve Seat	Standard: Brass; Optional 316 Stainless Steel
Valve Stem	816 Stainless Steel
Diaphragm	Reinforced Buna-N, Viton-A® fluoroelastomers
Range Spring	Music Wire, zinc plated
Filter	40 micron, 316L Sintered Stainless Steel with Viton fluoroelastomers or Buna retainer sleeve

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Product Page

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Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

SEMINARS AND TRAINING

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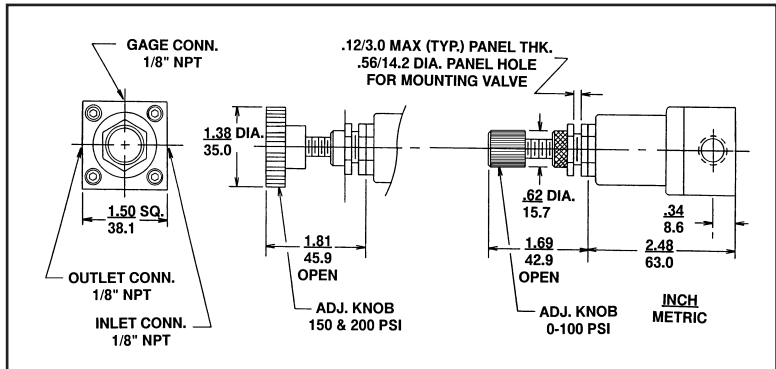
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Product Dimensions



Ordering Information

To order, please specify:

1. Model Number
2. Materials of Construction
3. Output Range
4. Connection Type & Size
5. Options, If desired.

Model Code

Code Description	Code Option	Option Description
I. Base Model Number	8601D	Pressure Regulator - Side Connections
II. Body Material - Wetted	1	Aluminum
	2	Stainless Steel
III. Diaphragm & Valve Seat Materials	A	Buna-N and Brass/Buna-N (Aluminum only)
	B	Viton and Brass/Viton (Aluminum only)
	C	Buna-N and Stainless Steel/Buna-N
	D	Viton and Stainless Steel/Viton
IV. Range	1	0-10 psi / 0-0.7 Bar
	2	0-30 psi / 0-2 Bar
	3	0-60 psi / 0-4 Bar
	4	0-100 psi / 0-7 Bar
	5	0-150 psi / 0-10 Bar
V. Connection Size & Type	A	1/8" NPT Female
	B	1/4" NPT Female
VI. Accessories	A	None
	B	Panel Mounting
	F	Gage Port Plugged

Sample Standard Model Code

I	II	III	IV	V	VI
8601D	1	A	1	A	A

A list of all Brooks Instrument locations and contact details can be found at www.BrooksInstrument.com

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