DATA SHEET

Pressure Measurement



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 Pressue 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		

View Model 8601 Product Page



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Beyond Measure

Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

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

Brooks Instrument can provide seminars and dedicated training to engineers, end users, and maintenance persons. Please contact your nearest sales representative for more details.

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

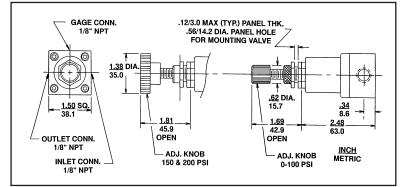
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Product Dimensions



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)	
	В	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	
	В	1/4" NPT Female	
VI. Accessories	A	None	
	В	Panel Mounting	
	F	Gage Port Plugged	

Sample Standard Model Code

1			IV	V	VI
8601D	1	Α	1	Α	A

Global Headquarters

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