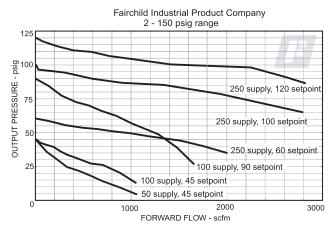


High Flow Pressure Regulator



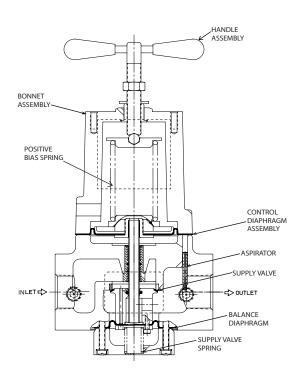


Operating Principles

The Model 100 High Flow Pressure Regulator is designed for use in control systems requiring unusually high flow capacities. Like many of the Fairchild regulators, the compensating action of the inner valve assembly of the Model 100 allows complete stabilization of downstream pressure.

This high quality unit, which operates as efficiently on shop air as on dry instrument air, offers unusual versatility and economy. The Model 100 is capable of providing precise control of set point and good sensitivity under high flow conditions, and is the ideal choice for many demanding applications, including main header regulator control, large nip roll loading, and clutch brake operation.

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Cross Section

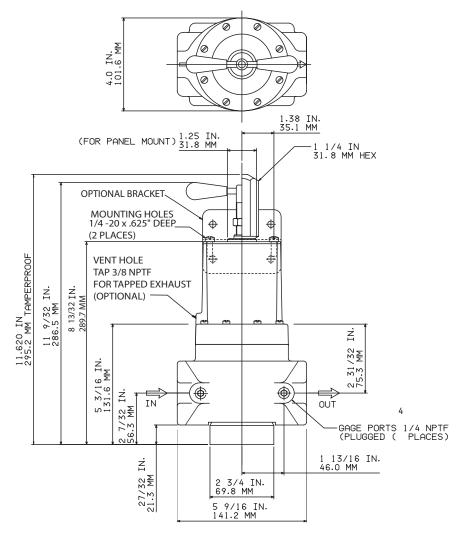
Model 100 Regulator Detail Drawing

General Information

- Can be set within 1/2" (1.27 cm) of water. Responds to equally minute changes in downstream pressure.
- Venturi-type aspirator tube to aid stability to minimize downstream pressure droop under flowing conditions.
- Balanced supply valve to minimize effect of supply pressure variation.
- Control Chamber isolates the control diaphragm.
- Operates equally well on shop air or clean, dry instrument air.
- May be serviced and maintained without removal from line.
- Mounting Bracket available

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Outline Dimensions



Specifications

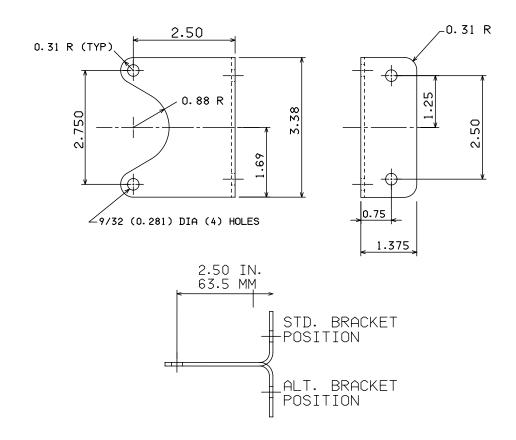
Flow Capacity	In excess of 1500 SCFM (2550 m³/HR) (100 psig, [7.0 BAR], (700 kPa) supply, 1 1/2" NPT Conn. 40 psig, [2.8 BAR], (280 kPa) setpoint
Exhaust Capacity	44 SCFM (75 m³/HR) for downstream pressure 5 psig, [.35 BAR], (35 kPa) above 20 psig set pressure
Maximum Supply Pressure	250 psig, [17.0 BAR], (1700 kPa)

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Mounting Bracket

Part Number: 10308 (sold separately)



Specifications

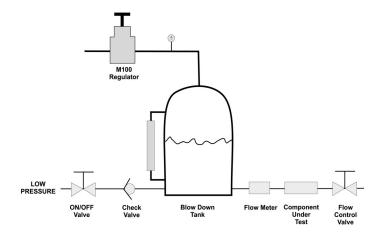
Sensitivity	0.5" (1.27 cm) Water Column
Supply Pressure Effect	Less than 0.1 psig, [.007 BAR], (.7 kPa) per 100 psig, [7.0 BAR], (700 kPa) change
Ambient Temperature Limit	-40°F to +200°F (-40°C to +93.3°C)

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Typical Application

A Model 100 Regulator is used to pressurize a water storage tank which supplies water to a test stand run. Water supply pressure to test stand must be adjustable and, when set to the desired value, must remain stable and at a nearly constant value. When a pressure drop to a lower pressure level setting is required, the Model 100 must exhaust the air pressure in the tank as quickly as possible to avoid unnecessary delay awaiting tank pressure to assume the lower pressure setting.



Service Information

A Service Kit is available for the Model 100. Please see the Fairchild Model 100 High Flow Pressure Regulator Installation, Operation and Maintenance Instructions, IS-10000100.

Catalog Information

Catalo	og Numbe	er 100			
Press	ure Rang	e			
psig	[BAR]	(kPa)			
0-10	[0-0.7]	(0-70)	2		
0.5-30	[0.035-2]	(3.5-200)	3		
1-60	[0.07-4]	(7-400)	4		
2-100	[0.14-7]	(14-700)	5		
2-150	[0.14-10]	(14-1000)	6		
				08	
Option	ns				
Tapped Exhaust E					E
Non-Relieving					N
Tamper Proof					

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