

Model
50

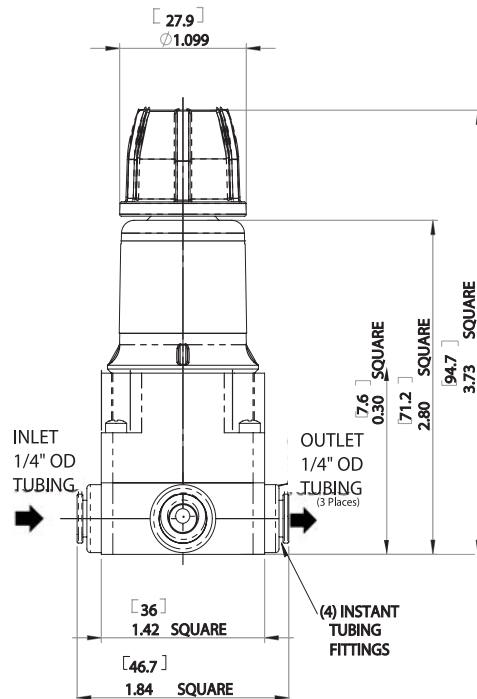
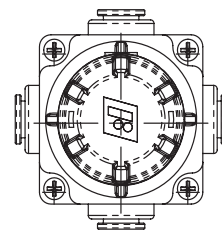


Features

- Compact size
- Lightweight unit
- Handles high supply pressure
- High accuracy for precision control
- Polymer construction for corrosive resistance
- Venturi design compensates downstream pressure droop under flowing conditions
- Non-rising adjustment knob
- Manifold mount capability
- Push to connect fittings in all ports
- Separate control chamber isolates the Diaphragm from the main flow to eliminate hunting and buzzing

Operating Principles

When the setpoint is reached, the upward force of the output pressure that acts on the bottom of the Diaphragm balances with the downward force that acts on the top of the Diaphragm. If the output pressure rises above the setpoint, the force that acts on the bottom of the Diaphragm moves the Diaphragm Assembly upward to close the Supply Valve and open the Relief Valve. Excess output pressure exhausts through the Vent in the unit until it reaches the setpoint.



Specifications

Flow Capacity

10 SCFM (17.0 m³/HR) @ 120 psig, [8 BAR], (800 kPa) supply

Exhaust Capacity

2 SCFM (3.4 m³/HR) where downstream pressure is 15 psig, [1.0 BAR], (100 kPa)

Maximum Supply Pressure

150 psig, [10 BAR], (1000 kPa)

Supply Pressure Effect

0.1 psig for 10 psig change in supply

Sensitivity

5" (12.7cm) Water Column

Ambient Temperature

0°F to +160°F, (-17.8°C to 71.1°C)

Materials of Construction

Body and HousingGlass Filled Acetal
ValveStainless Steel
DiaphragmPolymer Reinforced Nitrile

Catalog Information

Catalog Number 50 R 1

Pressure Range

psig	[BAR]	(kPa)	
0-10	[0-0.7]	(0-70)	2
.5-30	[0.03-2]	(3-200)	3
1-60	[0.07-4]	(7-400)	4
2-100	[0.15-7]	(15-700)	5

Port Tubing Size

1/4" / 6 mm 0

Port Type

Inch E

Metric M

Elastomer

Nitrile N

Adjustment Type

Knob K

Function Type

Relieving R

Non-Relieving N

Vent

Untapped S

Tapped E