Introduction

Features & Benefits

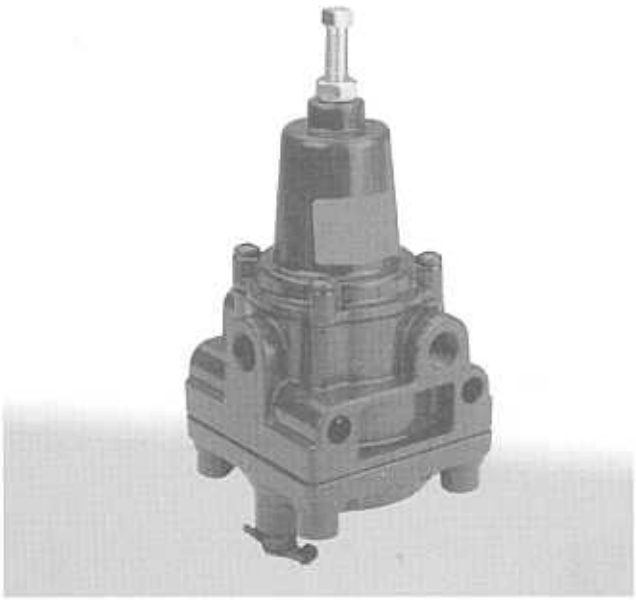
- Stable output and repeatability - provides constant control under variable flow rates and supply pressures.
- Corrosion-resistant construction - aluminum die-castings are finished with Irridite and baked epoxy paint.
- Depth filter -unit comes equipped with high capacity 40 micron filter housed in drip-well
- Self-Relieving
- Low droop at high flow levels - aspirator design helps maintain set pressure at higher flow levels

Tight shut-off - a soft, rubberized valve provides a positive shut-off and compensates for dirt and other foreign matter

Description

The Model 91-HF Filter-Regulator is designed to provide clean, accurate air pressure to valve positioners, and other pneumatic control equipment. The filter regulator has been proven to provide long lasting corrosion resistance in harsh industrial environments. The model 91-HF filter regulator is a quality unit that is ideal as an economical alternative for control of process applications.

The Model 91-HF is used extensively to supply air to pneumatic controllers, transmitters, transducers, valve positioners, air cylinders, and a wide range of pneumatic control systems.



Specifications

Performance Specifications

Output Range

0-120 psig (0-800 kPa)

Maximum Supply Pressure

150 psig (1034 kPa)

Flow Capacity

22 SCFM (37.0 m^3/hr) at 100 psig (700 kPa)

Exhaust Capacity

0.1 SCFM (0.17 m^3/hr) with downstream pressure 5 psig (35 kPa) above set point

Sensitivity

1" (2.5 cm) of water

Air Consumption

Less than 5 SCFM (0.17 m^3/hr)

Effect of Supply Pressure Variation

Less than 0.2 psig (1.4 kPa) for 25 psi (170 kPa) change

Ambient Temperature Limits

0 to 160°F (-18 to 71°C)

Mechanical Specifications

Mounting

Pipe or through body

Weight

1.6 lb (725 g)

Port Size

(In, Out, and Gauge) 1/4" NPT

Materials of Construction

Body: Die-cast aluminum alloy, Irridite and baked Epoxy finish

Filter: 40 micron Phenolic impregnated Cellulose

Diaphragm: Nitrile Elastomer and Nylon fabric

Valve Seat Plug: Nitrile Elastomer

Additional Materials: Brass, Zinc plated steel, Acetal

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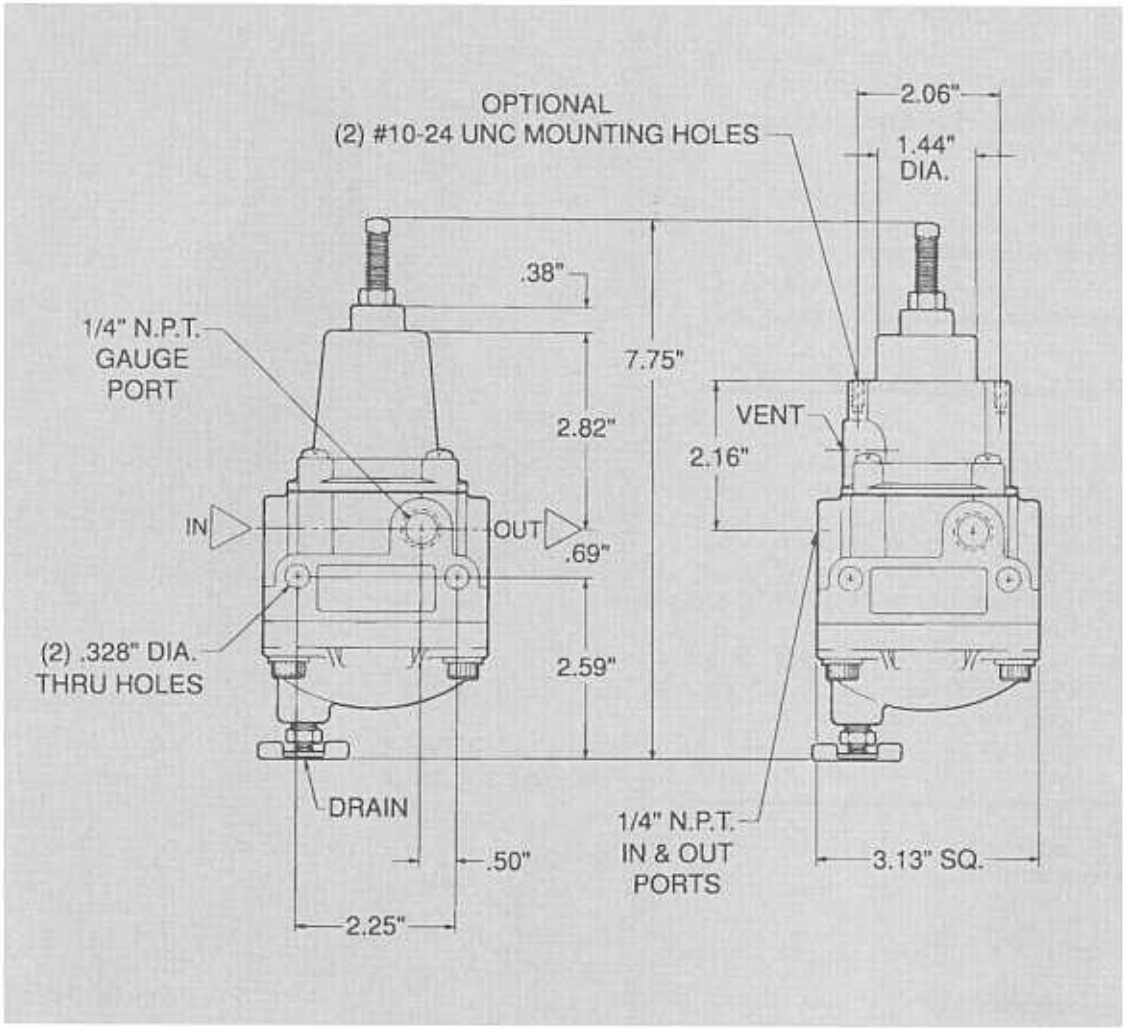
Mounting Dimensions