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 Ir idiot and baked epoxy paint.
- Depth filter unit comes equipped with high capacity 3 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 m³/hr) at 100 psig (700 kPa)
- Exhaust Capacity
  0.1 SCFM (0.17 m³/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 m³/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: 3 micron Phenolic impregnated Cellulose
  Diaphragm: Nitrile Elastomer and Nylon fabric
  Valve Seat Plug: Nitrile Elastomer
- Additional Materials: Brass, Zinc plated steel, Acetal
Regulators
Model 91-HF Filter-Regulator

Introduction

Mounting Dimensions