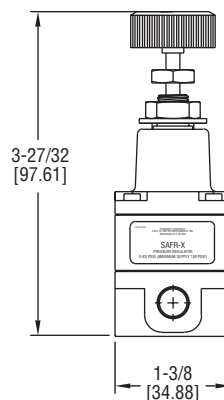




Series SAFR Subminiature Air Filter Regulator

Specifications - Installation and Operating Instructions



The Series SAFR is a miniature air pressure regulator that provides the highest level of regulation accuracy and repeatability available in a compact, lightweight body. This is ideal for applications that require exact pressure control and substantial flow capacity under variable operating conditions and limited space.

FEATURES

- Mountable in any position
- Mounting brackets are available

PRE-INSTALLATION

The SAFR is intended for use with industrial compressed air systems only.

CAUTION Contact factory prior to use with other gases. Clean all pipe lines to remove dirt and scale prior to installation.

CAUTION This instrument vents to the atmosphere. The use of supply gas other than air may create a hazardous environment. A filter (40 microns or less is recommended) should be installed ahead of the regulator to prevent foreign matter in the air line from affecting the performance of the regulator. If an air line lubricator is used, it should be located downstream of the SAFR.

PANEL MOUNTING

The SAFR can be mounted in any position without affecting its operation. Install the regulator in the air line. The body is fitted with a 1/8" NPT/BSP for inlet and outlet connections. Apply a small amount of compound to the male threads only. Inlet and outlet connections are labeled and should be tightly secured. Make sure all connection are right and that the exhaust vents in the bottom and side of the regulator are not blocked. For panel mounting the panel mounting nut should be tightened with a torque of 60 in-lbs.

CAUTION Repeated cycling of supply pressure may cause increased leakage and premature product failure.

OPERATION

Turn on supply pressure slowly and then turn the adjusting knob until the desired output pressure is reached. Since this instrument utilizes an air bleed servo-control action, a slight sound of escaping air may be heard in the area of the housing. This is normal and is required for the precise control which this regulator offers.

WARNING These products are intended for the use in industrial compressed-air systems only. Do not use these products where pressures and temperatures can exceed those listed under the specifications.

SPECIFICATIONS

Service: Air only.

Wetted Materials:

Body: Aluminum alloy, chromate and epoxy paint;
Diaphragm: Nitrile elastomer;
Trim: Zinc plated steel;
Additional Materials: Brass, aluminum, SS, zinc plated steel.

Output:

0.7 to 30 psig (0.05 to 2 BAR);
1.4 to 60 psig (0.1 to 4 BAR);
1.4 to 120 psig (0.1 to 8 BAR).

Max. Supply Pressure: 150 psig (10 BAR).

Temperature Limits: 0 to 160°F (-18°C to 71°C).

Sensitivity: 0.25 in wc (6.4 mm wc).

Consumption: 6.0 scfh (170NI/min) max. at 150 psig (10 BAR) supply change.

Flow Capacity: 14 scfm (396 NI/min).

Exhaust Capacity: 7 scfm (199 NI/min).

Process Connection: 1/8" in, out, gage (2) female NPT.

Weight: 0.35 lb (0.16 kg).

MAINTENANCE/REPAIR

Upon final installation of the Series SAFR Subminiature Air Pressure Regulator, no routine maintenance is required. The SAFR is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to "Terms and Conditions of Sales" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.