

Regulators

Model 2306 Instrument Air Filter

Introduction

Features & Benefits

- ▶ Solid brass construction delivers exceptional durability
- ▶ Natural wool filter medium provides unsurpassed coalescing action

Description

The Model 2306 instrument air filter is used to remove dirt, oil, water, and other impurities from an instrument-air supply. This highly efficient instrument-air filter uses the principle of coalescence to trap fine particles in a dripwell.

Air enters the filter through the inlet connected to a cylindrical filter cartridge. After the air is filtered as it passes through the cartridge, it flows up between the cartridge and the outer housing.

As the air flows downward through the lamb's wool filtering medium, oil and water particles coalesce. The steady blow down action of the incoming air maintains high filtering efficiency by cleaning the filter cartridge continuously, while the natural force of gravity forces the coalesced materials to collect at the bottom of the dripwell.

A simple petcock permits the filter to be blown down periodically.

If accumulated dirt and scale make it necessary to replace the filter cartridge, the replacement may be effected without disturbing inlet and outlet connections by turning the housing out of the cap.

Specifications

Functional Specifications

Recommended Flow for Optimum Efficiency¹

0.5 scfm at 75 psig (14 dm³/m at 520 kPa)

Maximum Supply Pressure

1000 psig (69 bar)

Performance Specifications

Pressure Droop Through Filter with 75 psig Supply

Pressure and 0.5 scfm flow approximately 1/4 psi (2 kPa)

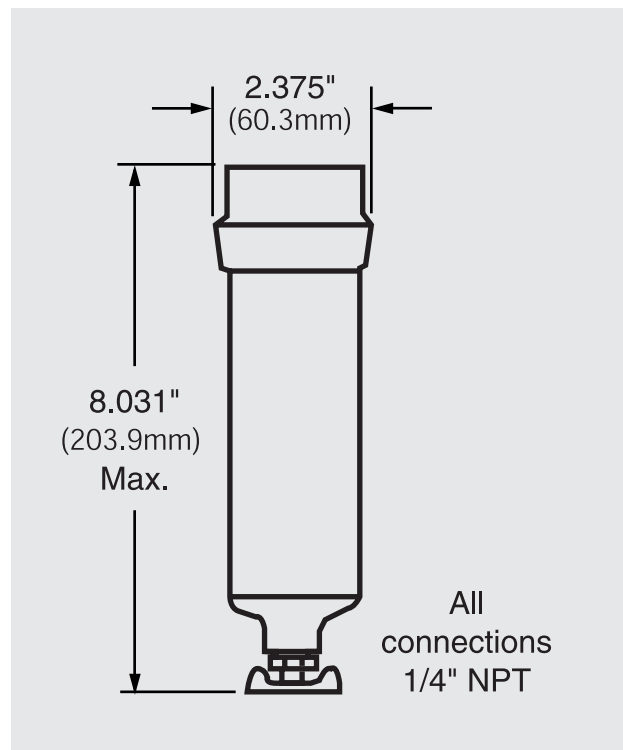
Mechanical Specifications

Materials of Construction

Brass, lamb's wool, and neoprene.



Mounting Dimensions



1) Flow capacities at higher or lower supply pressures will vary in direct proportion to the absolute pressure.