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 flow 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 Efficiency**
  - 0.5 scf/min at 75 psig (14 dm³/min at 520 kPa)

- **Maximum Supply Pressure**
  - 1000 psig (69 bar)

Performance Specifications

- **Pressure Drop Through Filter with 75 psig Supply**
  - Pressure and 0.5 scf/min flow approximately 1/4 psi (2 kPa)

Materials of Construction

- Brass, aluminum, lamb’s wool, and neoprene.

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