

APPLICATIONS

Missiles
Launch Vehicles
Aircraft
Spacecraft
Industrial

FEATURES

Small Size
Light Weight
High Reliability
Low & Precise Outlet Pressure
High Inlet Pressure
Ultimate Precision

SPECIFICATIONS

Part Number:
9021-1-000

Service Fluid:
Inert Gases

Weight:
12.3 Oz Max

Inlet Pressure:
1,200 PSIG to 10,000 PSIG

Set Point Pressure:
930 ± 70 PSIG Nominal

Operating Temperature:
0°F to +130°F
(-18°C to +54°C)

Flow:
0.20 lb/sec (162 SCFM) to
0.0002 lb/sec (4,600 SCCM)

Material:
303 Cres Body
Fluorosilicone O-Ring Seals
(Internal)
Nitrile O-Ring Seals
(External)



Pressure Regulator Cartridge Type

The Aerodyne pneumatic pressure regulator, Model 9021, reduces high inlet pressure (10,000 psi) to a precise output pressure in a small, lightweight design. This cartridge style regulator contains a small internal “pilot” valve that precisely controls the dome pressure of the valve’s main poppet. This design allows for minimal overshoot while maintaining quick valve response.

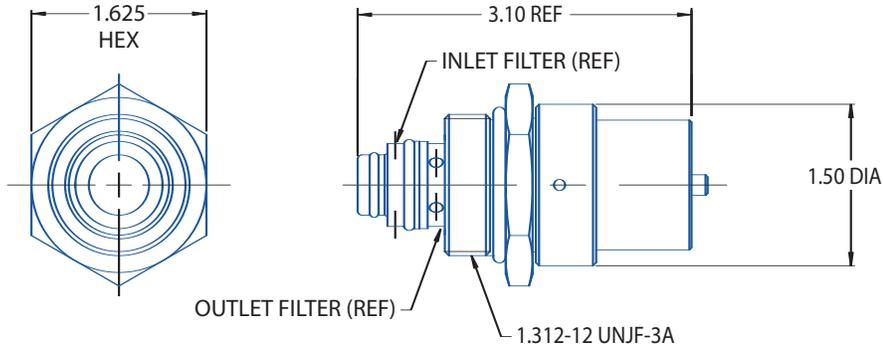
Fluid flow is directed through the main orifice, allowing for large fluid flow rates and precise pressure control. During pressurization, the main poppet remains closed until the “pilot” valve increases the dome pressure. When the specified outlet pressure (dome pressure) is achieved, the main poppet starts to open.

Preset outlet pressure regulation set point (non adjustable) assures accurate installed performance. Metal seat design assures excellent performance and durability. The cartridge design allows for greater system integration yielding a smaller overall package.

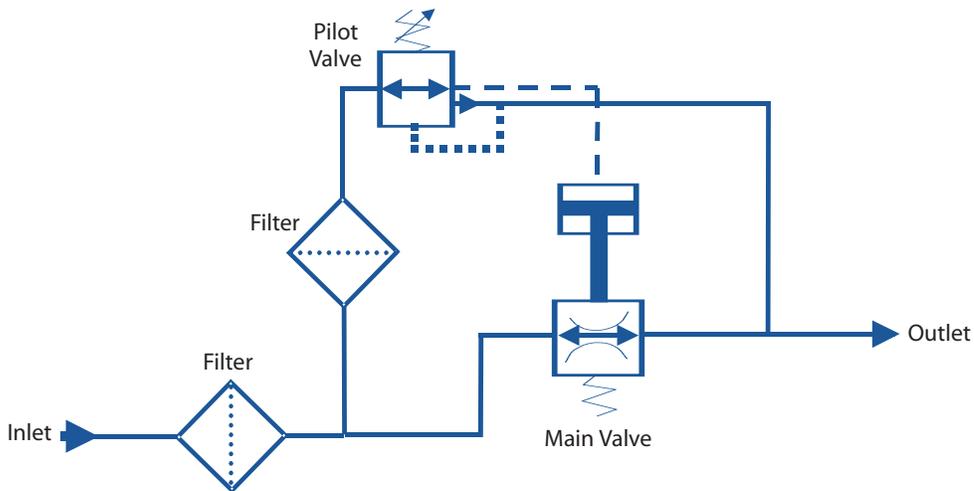
Custom fluid controls and motion sensors since 1958

MODEL
9021 Pressure Regulator
Cartridge Type

DIMENSIONS



FUNCTIONAL SCHEMATIC



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