

MINIATURE IN-LINE VALVE, MIV Datasheet

Project: Miniature In-Line Valve (MIV)
Revision: 0
Date: 7/3/18
Industry: Medical Device

Specifications

Operation

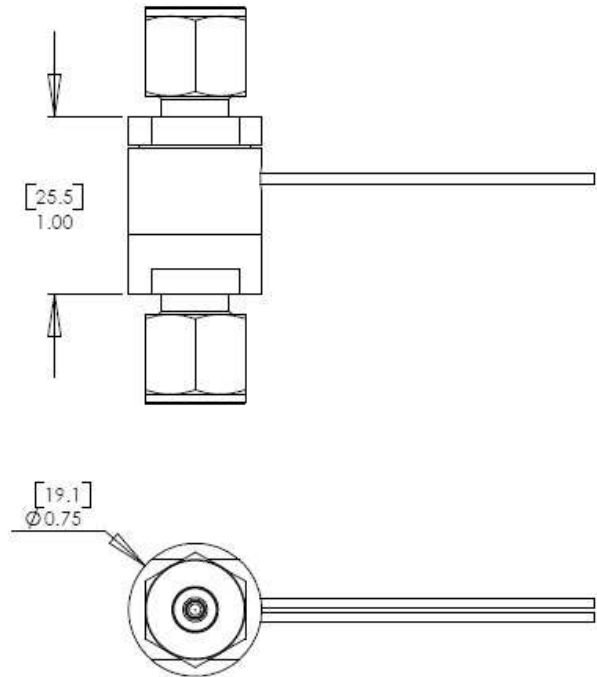
Flow Control Valve

Physical

Medium: Humid Air, Human Breath
Main Orifice: 0.004"
Inlet & Outlet: 1/8" SST Tubing
Connection: Push-to-Connect, O-Ring Sealed
Materials: NSF Grade
Inlet Pressure: 0-1 psig
Temperature: 60-80°F

Electrical

Power System: Pulse & Hold PWM Driver
Voltage: 12.0+/-0.5 vdc
Current: 0.5 A max
Frequency: 1-10 kHz
Initial ON Time: 50 ms
Duty Cycle: 25%
Lead Wires: 22 AWG Copper Wire



Developed for the medical device industry, this unique valve is design to be inserted in-line with their existing stainless steel tubing. A tiny, precise orifice is inserted into the valve body to control the flow rate with high accuracy. This enabled the customer to provide excellent flow control for a difficult to control application.

We also provided a small, high power coil that could be driven with a common Pulse & Hold technique to reduce the overall power consumption.

At Preston Solenoid, we work with our customers to help them achieve their goals. Contact us to see if you might make use of our capabilities and experience. We will be glad to provide you with budgetary estimate and initial design proposal, all at no cost or obligation.

