# **Back Pressure Regulators**

# **BPR-1 Series Back Pressure Diaphragm Regulators**

### **Features**

- O Metal-to-metal seal with convoluted diaphragm
- ◎ Close pressure differential between crack and reseat
- Panel mounting available

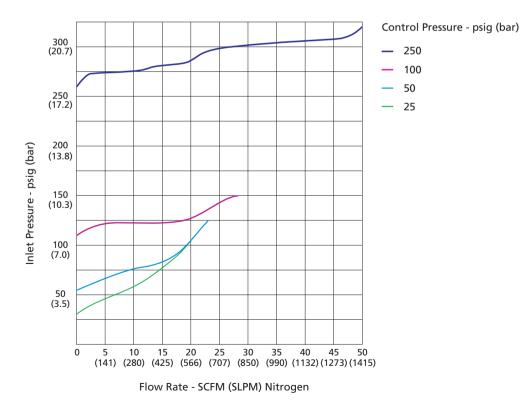
# **Technical Data**

- O Maximum control pressure: 250 psig
- ◎ Pressure control range: 0~25, 0~50, 0~100 or 0~250 psig
- O Material of the main components: Seat: PCTFE **Diaphragm: Hastelloy**
- Temperature: -40°F~+140°F (-40°C~+60°C)
- O Leak rates: Internal: Bubble-tight External:  $\leq 1 \times 10^{-9}$  mbar  $\cdot$  l/s helium
- Flow coefficient (Cv): 0.3
- $\bigcirc$  Weight:  $\approx$ 1.98 lbs (0.9 kg)
- O Body ports: 1/4" female NPT for inlet, outlet and gauge

# **Typical Flow Chart**



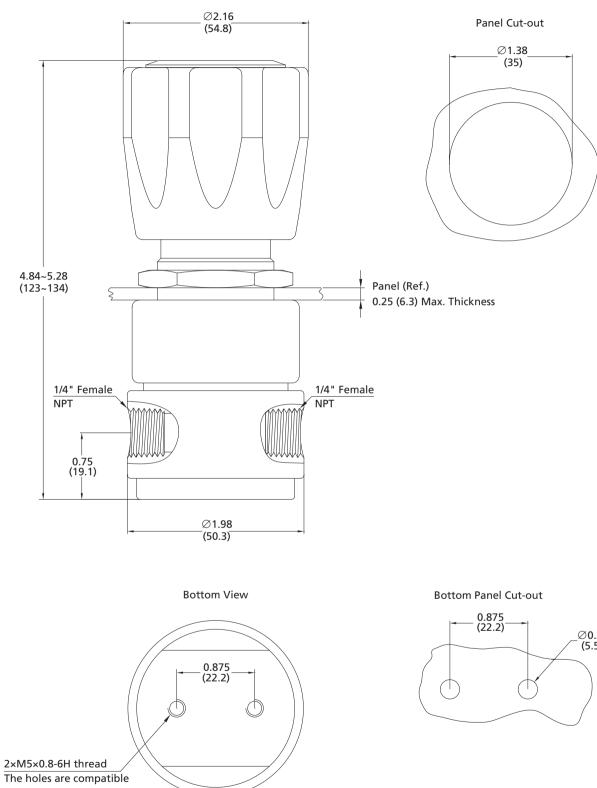
Model: BPR-16L-250-00-00-Z



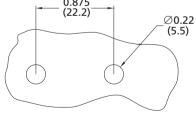


#### **Dimensions**

Dimensions, in inches (millimeters), are for reference only.



with 10-32 mounting screws



**FITOK** 



## **Typical Application**

When the system pressure is lower than the set pressure, the diaphragm obstructs the flow by the force of spring. When the system pressure is higher than the set pressure, the diaphragm compresses the inner spring to connect the flow so as to allow the fluid to pass through the back pressure regulator to keep the pressure of the Storage Vessel stable.

