

## PR-7 Series



The PR-7 Series has been designed for those applications using high gas flow rates while still requiring a compact package. While only slightly larger than the PR-1 Series, this valve can handle much higher flow rates with a minimal pressure drop. In addition, this unit displays none of the resonance problems usually associated with regulators of this type.

While this design has been optimized for gas flow applications with low inlet pressures, it is robust

enough to allow this regulator to handle inlet pressures up to 3600 psig. The T-handle, provided as standard on units with outlet pressures above 100 psig, mitigates the high adjusting torque requirements that large diaphragm regulators often require.

- Gas or liquid service
- 316L stainless steel or Brass (alloy 360) construction
- Stainless steel diaphragm with Teflon® lining
- Electropolished body (316L) with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble tight shutoff
- Outlet pressure ranges are 10, 25, 50, 100, 250 and 500 psig
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 3.2 lbs (1.45 kg)
- Mounting style is surface or panel (see Outline and mounting dimensions)

# Maximum Temperature & Operating Inlet Pressures

## up to 100 psig Outlet Pressure

Seat Material	Maximum Temperature*		Maximum Operating Inlet Pressure
Teflon®	150° F (66° C)	@	1000 psig (6.90 MPa)
PEEK	250° F (121° C)	@	3600 psig (24.82 MPa)
Viton®	250° F (121° C)	@	300 psig (2.07 MPa)
Kalrez®	250° F (121° C)	@	300 psig (2.07 MPa)

\* Temperatures in excess of 175° F require the use of a metal knob or the Tamper Proof option

## 0 - 250 psig Outlet Pressure (Hand Knob)

Seat Material	Maximum Temperature*		Maximum Operating Inlet Pressure
Teflon®	150° F (66° C)	@	500 psig (3.45 MPa)
Viton®	250° F (121° C)	@	300 psig (2.07 MPa)
Kalrez®	250° F (121° C)	@	300 psig (2.07 MPa)

\* Temperatures in excess of 175° F require the use of a metal knob or the Tamper Proof option

## 0 - 250 & 0 - 500 psig Outlet Pressures (T Handle or Tamper Proof)

Seat Material	Maximum Temperature*		Maximum Operating Inlet Pressure
Teflon®	150° F (66° C)	@	1000 psig (6.90 MPa)
PEEK	250° F (121° C)	@	3600 psig (24.82 MPa)

\* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the Tamper Proof option