

## PR-50 Series High Pressure Regulator



The PR-50 Series pressure regulator was designed to meet the demands for outlet pressures up to 2000 psig while maintaining superior corrosion protection.

For reliability in operation, this precision regulator features a stainless steel body which affords maximum corrosion resistance coupled with the ultimate in safety. The optional self relieving feature provides an additional level in operational ease, as it allows for trapped downstream pressure to be safely vented to atmosphere through the bonnet.

- Gas or liquid service
- 316L stainless steel or Brass (alloy 360) construction
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble tight shutoff
- Outlet pressure ranges are 500, 1000 and 2000 psig
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 4.4 lbs (2.0 kg)
- Mounting style is in line or panel (see Outline and mounting dimensions)

## Maximum Temperature & Operating Inlet Pressures

### Nylon Diaphragm Backing

Seat Material	Maximum Temperature		Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High Densit PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK	175° F (80° C)	@	6000 psig (41.37 MPa)

### PTFE Diaphragm Backing

Seat Material	Maximum Temperature		Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F 81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	350° F (176° C)	@	6000 psig (41.37 MPa)
PEEK	350° F (176° C)	@	6000 psig (41.37 MPa)