

Dual Heated Regulator Steam Heated



The Dual Heated Pressure Regulator is designed to supply heat to samples entering instrumentation systems. It can be used to preheat liquids, to prevent condensation of gases or to vaporize liquids prior to gas analysis. Significant space savings can be realized due to the utilization of two discreet regulators that are heated by a common source.

The modular design of the Dual Heated Regulator consists of a heating element and pressure control sections. The pressure control sections are patterned after the time proven design of the PR-1 pressure reducing regulator and provides the same excellent outlet pressure stability. The heat exchanger section is made up of a body and a heating element.

- 316L stainless steel construction
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- Operating temperatures up to 550°F(285°C)
- Bubble tight shutoff
- Outlet pressure ranges are 10, 25, 50, 100, 250 and 500 psig
- Modular pressure control and heat exchanger assemblies for easy maintenance
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 4.0 lbs (1.81 kg)
- Mounting style is surface or panel (see Outline and mounting dimensions)

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature*	Maximum Operating Inlet Pressure
Tefzel®	up to 175° F (up to 80° C)	@ 3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@ 1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@ 400 psig (2.76 MPa)
High Density PTFE	up to 175° F (up to 80° C)	@ 3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@ 1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@ 400 psig (2.76 MPa)
CF PTFE	up to 175° F (up to 80° C)	@ 3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@ 1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@ 400 psig (2.76 MPa)
PCTFE	up to 175° F (up to 80° C)	@ 3600 psig (24.82 MPa)
Polyimide	up to 175° F (up to 80° C)	@ 6000 psig (41.37 MPa)
PEEK	up to 175° F (up to 80° C)	@ 6000 psig (41.37 MPa)

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