

GOREGULATOR, INC.

A division of CIRCOR International, Inc.

UCP-1 Precision Pressure Regulator

The model UCP-1 offers the user an ultra compact pressure regulator for use in high purity systems for the semiconductor industry. Meeting the highest purity standards and low particle generation of the semiconductor industry, this unit features internal components with standard surface finishes better than 25 Ra. The UCP-1 was computer designed to ensure a laminar flow transition from the flow control orifice to the outlet port. This design ensures virtually zero particle entrapment and efficient purge cycles.

Features & Specifications

- 316 Stainless Steel Construction
- Inlet 300 psig max. with Viton® or Kalrez® Seats; 3600 psig max. with Tefzel®, Polyimide, or Kel-F Seats
- Outlet 10, 25, 50, 100, 250 and 500 psig
- C_v Flow 0.025, 0.06, or 0.2
- 1/4" Male or Female VCR Compatible
- 1 x 10⁻⁹ atm cc/sec, Inboard Leak Spec

Applications

Options

Bulk Inert Gas Distribution
Diffusion Furnaces
Epitaxial Reactors
Specialty Gas Distribution
Manufacturing Tool
Corrosion Resistant Materials of Construction
15 Ra. 10 Ra or 4 Ra internal surface finish

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UCP-1 Precision Pressure Regulator

How to Order

See page 3 for standard configurations. For additional configurations, consult the factory. See page 4 for port locations.

Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psiG (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psiG (24.82 MPa)
PCTFE (formerly Kel-F81)	175° F (80° C)	@	6000 psiG (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psiG (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psiG (41.37 MPa)
PEEK	500° F (260° C)	@	3600 psiG (24.82 MPa)
PEEK	175° F (80° C)	@	6000 psiG (41.37 MPa)

Maximum Temperature & Operating Inlet Pressures

*Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Tefzel® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions





PORT LOCATIONS (PRECISION PRESSURE REGULATOR)

