

PRESSURE REGULATORS

High-Purity

## High-Purity Absolute Pressure



**Description:** This absolute pressure regulator is capable of accepting a line pressure of atmospheric to 250 psig and reducing it to within sub-atmospheric to 10 psig. This regulator is designed for high-purity gas systems and systems which handle highly corrosive media. Only Hastelloy C-22 and PTFE material are in contact with the flow media.

This regulator utilizes a soft-seated main valve for tight shutoff in dead-end applications and a metal diaphragm sensing element for enhanced pressure-control sensitivity.

### Design Features

**Convoluted Hastelloy C-22 Diaphragms**

provide superior leak integrity without contamination from a non-metallic liner or seal.

**Standard Threaded Bonnet** (with optional collar-mount nuts) for easy panel mounting.

**Electropolishing and Ultrasonic Cleaning**

allows high-purity gas handling without costly pre-cleaning.

Specifications	
Maximum Rated Inlet Pressure	Atmospheric to 250 psig
Outlet Pressure Ranges	28" Hg vacuum to 10 psig
Flow Capacity	Cv=0.06
Ambient Operating Temperature	-65° F to +165° F
Designed Leak Rate	2 x10 <sup>-8</sup> ccs (helium)
Weight	3 lbs
Ports (3)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" FNPT

Materials	
Body	316L Stainless Steel
Bonnet	Nickel-Plated Brass
Seat	PTFE
Diaphragm	Hastelloy C-22
Gauges	2 1/2" Stainless Steel
Filter	316 Stainless Steel Continuous Wire
Valve Stem	316 Stainless Steel
Valve Spring	Inconel
Trim	Stainless Steel

Ordering Information					
Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Delivery Gauge Range (psig)
Y11-C440N	316 SS	250	10	210	30" HG-0-30

Available Options	
Product Number	Description
Y15-418984	Wall-Mount Bracket
Y99-BONNETADP	Bonnet Vent Adaptor
Y99-CHROMNUT	Panel Mounting Nut (2 required)
Y99-26460	1/4" MNPT x 1/4" Compression