

## Ultra-High Purity Brass Two-Stage Models (Threadless Seat)

**Description:** The unique design of this regulator provides a continuous sweeping of the high pressure chamber. This design is specifically made for processes using analyzers and mixes gases with low levels of the gas components. This sweeping action prevents any drop out or change in the gas mixture and quickly removes any contaminants that may enter the regulator. These nickel-plated two-stage ultra-high purity regulators are recommended for non-corrosive analytical, mildly corrosive and process applications where precise flow control is not critical. A specially designed, convoluted Hastelloy diaphragm provides good regulating performance and maximum purity integrity without the need for a soft seal, which often can be a source of contamination. This series of nickel-plated brass two-stage high purity regulators is designed for non-corrosive analytical, mildly corrosive and process applications requiring precise, stable delivery pressure control. The two-stage design yields a delivery pressure change of less than 0.01/100 psi inlet change.

These regulators also have a check valve cylinder connection that prevents contaminants from entering during cylinder changeover.

Ultra-High Purity Brass

PRESSURE REGULATORS



### Design Features

#### Convoluted Hastelloy C22 Diaphragms

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

#### Bonnet Vent Ports (with optional bonnet vent adaptors)

allowing venting of hazardous gases in the event of diaphragm failure.

#### Standard Threaded Bonnet (with optional collar-mount nuts)

for easy panel mounting

#### Diaphragm Packless Valve (with 1/4" TOD Compression Fitting)

promotes system purity.

#### Threadless Seat Design

sweeping action ensures gas mixture consistency, provides longer regulator life.

Specifications	
Maximum Rated Inlet Pressure	4000 psig
Outlet Pressure Ranges	0-30, 0-60, 0-100, 0-250 psig
Flow Capacity	Cv=0.06
Ambient Operating Temperature	-40° F to +150° F
Designed Leak Rate	bubble tight
Weight	4 lbs.
Ports (6)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" TOD Compression Fitting
Delay Inlet Characteristic	0.01/100 psi

Materials	
Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	Hastelloy C22
Gauges	2 1/2" Nickel-Plated Brass
Filter	Copper and Phosphor Bronze
Outlet Valve	Nickel-Plated Brass
Trim	316 Stainless Steel and Bronze

### Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Press.)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y12-T265A(CGA)	Brass	4000	30	190	0-4000	30" Hg-0-30
Y12-T265B(CGA)	Brass	4000	60	270	0-4000	0-100
Y12-T265D(CGA)	Brass	4000	100	380	0-4000	0-200
Y12-T265F(CGA)	Brass	4000	250	850	0-4000	0-400

### Available Options

Product Number	Description
Y99-CHROMNUTV	Panel Mounting Nut
Y99-BONNETADP	Bonnet Vent Adapter
Y99-CKCGA	Check Valve Cylinder Connection
Y15-QMB1	Quick Mounting Option for 1 Cylinder
Y15-QMB2	Quick Mounting Option for 2 Cylinders