

**PRESSURE REGULATORS**

High-Purity



## Stainless Steel Single-Stage Models (Threadless Seat)

**Description:** These stainless steel single-stage 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 C-22 diaphragm provides good regulating performance and maximum purity integrity without the need for a soft seal, which often can be a source of contamination.

Each regulator is capable of withstanding an internal vacuum and is provided with a diffusion-resistant, diaphragm packless outlet valve to maintain system purity. The optional bonnet vent adaptor enables venting hazardous gases in the event of diaphragm failure.

### Design Features

**Convoluted Hastelloy C-22 Diaphragms**

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

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

allow 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" Compression fitting)

promotes system purity.

**Threadless Seat Design**

provides longer regulator life.

### Materials

<b>Body</b>	316 Stainless Steel
<b>Bonnet</b>	Nickle Plated Brass
<b>Seat</b>	PCTFE
<b>Diaphragm</b>	Hastelloy C-22
<b>Gauges</b>	2 1/2" Stainless Steel
<b>Filter</b>	316 Stainless Steel
<b>Outlet Valve</b>	Stainless Steel
<b>Trim</b>	Stainless Steel
<b>Poppet Spring</b>	Inconel

### Specifications

<b>Maximum Rated Inlet Pressure</b>	4,000 psig
<b>Outlet Pressure Ranges</b>	0-10, 0-30, 0-60, 0-100, 0-250, 0-500 psig
<b>Flow Capacity</b>	Cv=0.06
<b>Ambient Operating Temperature</b>	-40° F to +150° F
<b>Designed Leak Rate</b>	bubble tight
<b>Weight</b>	3 lbs
<b>Ports (6)</b>	1/4" FNPT
<b>Inlet</b>	1/4" FNPT
<b>Outlet</b>	1/4" Compression
<b>Decay Inlet Characteristic</b>	0.23/100 psi

### Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y11-C444AA (CGA)	316 SS	4,000	10	740	0-4,000	30" Hg-0-30
Y11-C444A (CGA)	316 SS	4,000	30	900	0-4,000	30" Hg-0-30
Y11-C444B (CGA)	316 SS	4,000	60	1,250	0-4,000	0-100
Y11-C444D (CGA)	316 SS	4,000	100	1,750	0-4,000	0-200
Y11-C444F (CGA)	316 SS	4,000	250	2,700	0-4,000	0-400
Y11-C444G (CGA)	316 SS	4,000	500	3,700	0-4,000	0-1000

### Available Options

Product Number	Description
Y99-CHROMNUT	Panel Mounting Nut
Y99-BONNETADP	Bonnet Vent Adaptor
Y99-4VCR	1/4" VCR® connection on Inlet/Outlet (VCR x 1/4" MNPT)
Y15-QMS1	Quick Mounting Option for 1 Cylinder
Y15-QMS2	Quick Mounting Option for 2 Cylinders