

**ANALYTIC SERIES
PRESSURE REGULATORS**

High-Purity Stainless Steel

Stainless Steel Single-Stage Models



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 316L SS 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 316L SS 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.
- Encapsulated Valve Design** provides longer regulator life.

Materials	
Body	316 Stainless Steel
Bonnet	Nickle Plated Brass
Seat	PTFE
Diaphragm	316L SS
Gauges	2 1/2" Stainless Steel
Filter	316 Stainless Steel
Outlet Valve	Stainless Steel
Trim	Stainless Steel
Poppet Spring	316L SS

Specifications	
Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0-30, 0-60, 0-100, 0-250, 0-500 psig
Flow Capacity	Cv=0.08
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	2 x 10 ⁻⁸ cc/sec
Weight	4 lbs
Ports (6) 3HP, 3LP	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" Compression
Decay Inlet Characteristic	1.8 psi/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-ASC444AA (CGA)	316 Stainless Steel	3,500	10	140	0-4,000	30" Hg-0-30
Y11-ASC444A (CGA)	316 Stainless Steel	3,500	30	250	0-4,000	30" Hg-0-30
Y11-ASC444B (CGA)	316 Stainless Steel	3,500	60	430	0-4,000	0-100
Y11-ASC444D (CGA)	316 Stainless Steel	3,500	100	650	0-4,000	0-200
Y11-ASC444F (CGA)	316 Stainless Steel	3,500	250	1500	0-4,000	0-400
Y11-ASC444G (CGA)	316 Stainless Steel	3,500	500	2400	0-4,000	0-1,000

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)
Y99-SS200R4	1/4" Compression Outlet Ftg Stn Steel
Y99-CKSS(CGA)	Check Valve CGA Connection Stn Steel
Y15-QMS1	Quick Mounting Option for 1 Cylinder
Y15-QMS2	Quick Mounting Option for 2 Cylinders