

Stainless Steel Line Models

Description: This series of stainless steel high-purity, single-stage line regulators is recommended for applications where diffusion resistance is required. These regulators are recommended for use on low-pressure pipelines serving gas chromatographs, mass spectrometers, research sampling systems, and semiconductor processing.

The specially-designed, convoluted 316L SS diaphragm provides accurate, stable delivery pressure and is capable of withstanding internal vacuum purging. These units are easily mounted to panels using the optional panel-mount nuts with the threaded bonnet. Two 10 x 32 UNF-threaded holes in the body allow for bracket or external panel mounting. The optional bonnet vent adaptor allows venting of hazardous gases in the event of diaphragm failure.

High-Purity Stainless Steel

ANALYTIC SERIES PRESSURE REGULATORS



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.

High-Flow Capacity

permits excellent pressure control for multi-instrument applications.

Specifications	Materials
Maximum Rated Inlet Pressure	3,000 psig
Outlet Pressure Ranges	0-10, 0-30, 0-60, 0-100 psig
Flow Capacity	Cv=0.08
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	2 x 10 ⁻⁸ ccs (helium)
Weight	2 lbs
Ports (4) 1HP, 3LP	¼" FNPT
Inlet	¼" FNPT
Outlet	¼" FNPT

Body	316L Stainless Steel
Bonnet	Nickle Plated Brass
Seat	PTFE
Diaphragm	316L SS
Gauge	2½" Stainless Steel
Filter	316 Stainless Steel
Trim	316 Stainless Steel
Poppet Spring	316L SS

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Delivery Gauge Range (psig)
Y11-ASC441AA	316L SS	3,000	10	140	30" Hg-0-30
Y11-ASC441A	316L SS	3,000	30	250	30" Hg-0-60
Y11-ASC441B	316L SS	3,000	60	430	0-100
Y11-ASC441C	316L SS	3,000	100	650	0-200

Available Options

Product Number	Description
Y99-CHROMNUT	Panel Mounting Nut
Y99-BONNETADP	Bonnet Vent Adaptor
Y15-418984	Wall Mount Bracket
Y99-26460	¼" MNPT x ¼" Compression
Y99-26462	¼" MNPT x ¾" Compression Stn Steel