



Model 3510A Series Single-Stage High-Purity Stainless Steel Regulator



Description

High purity regulators designed for analytical applications using non-corrosive or semi-corrosive gases.

Applications

- Supply of carrier gas/detector support gas for a variety of gas chromatography applications (see table below for details).
- Supply of calibration standards to on-line process analyzers, emission monitoring systems, etc.

Gas Chromatography Detectors requiring the Single-Stage Model 3510 Series Regulator

Detector Type	Detection Level
Electrolytic Conductivity Detector (ELCD or Hall Detector)	Levels <50 ppm
Electron Capture Detector (ECD)	Levels <50 ppm
Mass Selective Detector or Mass Spec (MSD or MS)	All levels
Atomic Emission Detector (AED)	All levels

Note: A small amount of polychlorotrifluoroethylene is added to the threads to facilitate assembly. For ECD, MS or AED applications where method detection limits are sub-ppm, it is recommended to use a No Lube (-NL) model.

Design Features/Components

- High-purity 316 stainless steel barstock body
- High-purity 316 stainless steel diaphragm
- Metal to metal seals minimize diffusion of contaminants
- 2" inlet and delivery pressure gauges
- Bonnet ported and threaded to pipe gases away from work area
- Equipped with outlet diaphragm valve
- 1/4" compression tube outlet connection
- 10 micron metal filter protects seat from contamination
- Panel mountable, front bonnet and back threaded holes (10-32 UNF)
- Bonnet vent hole size: 1/8" NPTF

Materials of Construction

Gauges:	316 stainless steel
Body:	316 stainless steel
Bonnets:	Chrome plated brass barstock
Diaphragms:	316 stainless steel
Seat:	Teflon
Seals:	Metal to metal

Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
Maximum Flow Rate:	Model 3510A: 2400 SCFH (1128 SLPM)
(At 2000 psig, N ₂)	Model 3511A: 650 SCFH (305 SLPM)
	Model 3513A: 1100 SCFH (517 SLPM)
	Model 3516A: 3000 SCFH (1400 SLPM)
	Model 3517A: 4500 SCFH (2115 SLPM)

Flow Capacity (Cv):	0.08
Operating Temperature:	-15°F to 140°F (-26°C to 60°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	3 High, 3 Low
Shipping Weight:	5 lbs

Ordering Information

Part Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
SEQ3511AN/I	0-15 psig	30" vac-30 psig	0-4000 psig
SEQ3513ACGA	0-50 psig	30" vac-100 psig	0-4000 psig
SEQ3510ACGA	0-125 psig	30" vac-0-200 psig	0-4000 psig
SEQ3516ACGA	0-250 psig	30" vac-0-400 psig	0-4000 psig
SEQ3517ACGA	0-500 psig	0-1000 psig	0-4000 psig

For No Lube applications, specify Part Number SEQ35xxANLCGA.

*Note: For ordering, replace letters "CGA" with the valve outlet CGA number for the gas cylinder you are using. Some CGA limitations may apply.

Options

Part Number	Description
SEQ4754CGA	Tee Purge Assembly
SEQ4774CGA	Cross Purge Assembly
SEQPMK2N	Bonnet Panel Mounting Kit - 2 Nuts
SEQACON0069SA	Bonnet Vent Adapter 1/4" TB x 1/8" MNPT
SEQOPN0301SA	Swagelok 1/4" Tube Fitting (Stainless Steel)
SEQMSP0012XX	Inboard Helium Leak Rate Certification
SEQMSP0013XX	Combination Inboard/Outboard Helium Leak Rate Certification