



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) 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

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
3511A-N/I	0-15 psig	30" vac-30 psig	0-4000 psig
3513A-CGA	0-50 psig	30" vac-100 psig	0-4000 psig
3510A-CGA	0-125 psig	30" vac-0-200 psig	0-4000 psig
3516A-CGA	0-250 psig	30" vac-0-400 psig	0-4000 psig
3517A-CGA	0-500 psig	0-1000 psig	0-4000 psig

For No Lube applications, specify Model Numbers 35XX-NL-CGA.

**Note: Some CGA limitations may apply.*

Options

Model Number	Description
4754-CGA	Tee Purge Assembly
4774-CGA	Cross Purge Assembly
PMK-2N	Bonnet Panel Mounting Kit - 2 Nuts
ACON-0069-SA	Bonnet Vent Adapter 1/4" TB x 1/8" MNPT
OPN-0301-SA	Swagelok 1/4" Tube Fitting (Stainless Steel)
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification