

Model 3510 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 Detection Level Detector Type 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
- Porous metal filter protects seat from contamination
- · Panel mountable

Materials of Construction

Gauges: 316 stainless steel Body: 316 stainless steel Bonnets: Stainless steel Diaphragms: 316 stainless steel Seat: Teflon

Metal to metal Seals:

Specifications

Maximum Inlet Pressure: 3000 psig (20,700 kPa)

Maximum Flow Rate: Model 3510: 550 SCFH (260 SLPM)

(At 2500 psig, N₂)

Model 3511: 135 SCFH (60 SLPM)

(At 300 psig, N₂) Model 3512: 210 SCFH (100 SLPM)

(At 1000 psig, N₂)

Model 3513: 210 SCFH (100 SLPM)

(At 2500 psig, N₂) Model 3515: 550 SCFH (At 1000 psig, N₂)

Model 3516: 1350 SCFH (640 SLPM)

(At 2500 psig, N₂)

Flow Capacity (Cv):

-15°F to 165°F (-26°C to 74°C) Operating Temperature:

Porting (Regulator Body): 1/4" NPT Female Porting Configuration: 2 High, 2 Low **Optional Porting:** 3 High, 3 Low Shipping Weight: 5 lbs

Ordering Information			
Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
3510-CGA	4-100 psig	30" vac-0-200 psig	0-3000 psig
3511-N/I	2-30 psig	30" vac-0-60 psig	30" vac-0-300 psig
3512-CGA	2-30 psig	30" vac-0-60 psig	0-1000 psig
3513-CGA	2-30 psig	30" vac-0-60 psig	0-3000 psig
3515-CGA	4-100 psig	30" vac-0-200 psig	0-1000 psig
3516-CGA	10-250 psig	30" vac-0-300 psig	0-3000 psig
3517-CGA	20-500 psig	0-1000 psig	0-3000 psig
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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	
KIT-0204-SA	Bonnet Panel Mounting Kit	
ADP-0162-SA	Bonnet Vent Adapter to 1/8" FNPT	
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	