



Model 3530 Series

Single-Stage High-Purity Brass Regulator



Description

High-purity regulators designed for analytical applications. Use with non-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 3530 Series Regulator

Detector Type	Detection Level
Flame Ionization Detector (FID)	All levels
Thermal Conductivity Detector (TCD)	All levels
Nitrogen Phosphorus Detector (NPD)	All levels
Flame Photometric Detector (FPD)	All levels
Photoionization Detector (PID)	All levels
Helium Ionization Detector (HID)	All levels
Electrolytic Conductivity Detector (ELCD or Hall Detector)	Levels >50 ppm
Electron Capture Detector (ECD)	Levels >50 ppm

Design Features/Components

- High-purity nickel plated brass barstock body
- High-purity 316 stainless steel diaphragm
- Metal to metal seals minimize diffusion of contaminants
- 2-1/2" inlet and delivery pressure gauges
- Equipped with outlet diaphragm valve
- Bonnet ported and threaded to pipe gases away from work area
- 1/4" compression tube outlet connection
- Porous metal filter protects seat from contamination
- Panel mountable

Materials of Construction

Gauges:	Chrome plated brass
Body:	Nickel plated brass barstock
Bonnet:	Stainless steel
Diaphragm:	316 stainless steel
Seat:	Teflon
Seals:	Metal to metal

Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
Maximum Flow Rate:	Model 3536: 1350 SCFH (600 SLPM)
(At 2500 psig, N ₂)	Model 3537: 215 SCFH (95 SLPM)
	Model 3538: 215 SCFH (95 SLPM)
	Model 3539: 550 SCFH (240 SLPM)
Flow Capacity (Cv):	0.06
Operating Temperature:	-15°F to 165°F (-26°C to 74°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	2 High, 2 Low
	Model 3537: 3 High, 3 Low
Optional Porting:	3 High, 3 Low
	(Models 3536, 3537, 3538)
Shipping Weight:	5 lbs

Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
3537-CGA	2-30 psig	30" vac-0-60 psig	0-3000 psig
3538-CGA	2-30 psig	30" vac-0-60 psig	0-1000 psig
3539-CGA	4-100 psig	30" vac-0-200 psig	0-3000 psig
3536-CGA	10-250 psig	0-400 psig	0-3000 psig

*Note: Some CGA limitations may apply.

Options

Model Number	Description
4753-CGA	Tee Purge Assembly
4774-CGA	Cross Purge Assembly
ADP-0163-BO	Bonnet Vent Adapter to 1/8" Hose
ADP-0162-BO	Bonnet Vent Adapter to 1/8" FNPT
KIT-0204-SA	Bonnet Panel Mounting Kit
CON-0070-BO	Swagelok 1/4" Tube Fitting (Brass)
QCA(CGA)-4-B	Cylinder Quick Coupler Inlet
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification