Regulators



Model 3120A Series **Dual-Stage High-Purity Brass Regulator**



Description

High-purity brass regulators designed for use with analytical applications. For 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.
- High purity applications with non-corrosive gases requiring a constant delivery pressure.

Gas Chromatography Detectors requiring the Dual-Stage Model 3120A Series Regulator

Detector lype	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
- 10 micron metal filter protects seat from contamination
- Panel mountable, front bonnet and back bonnet threaded
- Optional interstage relief valve available
- Bonnet vent holes size: 1/8" FNPT

Materials of Construction

Gauges:	Chrome plated brass
Body:	Chrome plated brass barstock
Bonnets:	Chrome plated brass
Diaphragms:	316 stainless steel
Seats:	1st Stage – Teflon
	2nd Stage – Teflon
Seals:	Metal to metal

0.06

5 lbs

3000 psig (20,700 kPa)

1/4" NPT Female

Specifications

Maximum Inlet Pressure: Maximum Flow Rate: (At 2500 psig, N₂)

Flow Capacity (Cv): **Operating Temperature:** Porting (Regulator Body): Porting Configuration: Shipping Weight:

Model 3120A: 480 SCFH (225 SLPM) Model 3121A: 960 SCFH (451 SLPM) Model 3122A: 1200 SCFH (564 SLPM) Model 3126A: 1400 SCFH (658 SLPM) Model 3128A: 2000 SCFH (940 SLPM) -40°F to 140°F (-40°C to 60°C) 2 High, 3 Low, 1 Interstage

Ordering Information	1		
-	Delivery Pressure	Delivery Pressure	Cylinder Pressure
Part Number*	Range	Gauge	Gauge
SEQ3120ACGA	0-15 psig	30"-0-30 psig	0-4000 psig
SEQ3121ACGA	0-50 psig	30" vac-0-100 psig	0-4000 psig
SEQ3122ACGA	0-125 psig	30" vac-0-200 psig	0-4000 psig
SEQ3126ACGA	0-250 psig	0-400 psig	0-4000 psig
SEQ3128ACGA	10-500 psig	0-1000 psig	0-4000 psig

*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
SEQ4753CGA	Tee Purge Assembly
SEQ4774CGA	Cross Purge Assembly
SEQCON0069SA	Bonnet Venting Adapter 1/4" TB x 1/8" MNPT (2 Required)
SEQPMK2N	Bonnet Panel Mounting Kit
SEQCON0070BO	Swagelok 1/4" Tube Fitting (Brass)
SEQMSP0012XX	Inboard Helium Leak Rate Certification
SEQMSP0013XX	Combination Inboard/Outboard Helium Leak Rate Certification

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