



Model 3430A Series High-Purity Stainless Steel Line Regulator



Description

High-purity stainless steel line regulators designed for analytical applications with non-corrosive or semi-corrosive gases.

Applications

- Point-of-use pressure regulation of high-purity gases used in chromatography or other analytical applications (see table below for details)

Gas Chromatography Detectors requiring the Model 3230 Series Line 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 construction.
- High-purity 316 stainless steel diaphragms
- Metal to metal seals minimize diffusion of contaminants
- 2" delivery pressure gauge
- Bonnet ported and threaded to pipe gases away from work area
- Bonnet threaded for panel mounting
- Body screw thread tapped for back mounting
- Available with outlet diaphragm valve
- 10 micron metal filter protects seat from contamination
- 1/4" or 1/8" compression tube inlet/outlet connection (1/4" FPT optional)
- Bonnet vent hole size: 1/8" NPTF

Materials of Construction

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

Specifications

Maximum Inlet Pressure:	300 psig (2,760 kPa)
Maximum Flow Rate:	Model 3430A: 650 SCFH (305 SLPM)
(At 400 psig, N ₂):	Model 3431A: 1100 SCFH (517 SLPM)
	Model 3432A: 240 SCFH (1128 SLPM)
	Model 3433A: 3000 SCFH (1410 SLPM)
Flow Capacity (Cv):	0.08
Operating Temperature:	-40°F to 140°F (-40°C to 60°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	2 High, 2 Low
Shipping Weight:	5 lbs

Ordering Information

Model Number	Delivery Pressure Range	Delivery Pressure Gauge	Model Number	Delivery Pressure Range	Delivery Pressure Gauge
3430A	0-15 psig	30"-0-30 psig	3432A	0-125 psig	30"-0-200 psig
3430-NV	0-15 psig	30"-0-30 psig	3432A-NV	0-125 psig	30"-0-200 psig
3430A-2*	0-15 psig	30"-0-30 psig	3432A-2	0-125 psig	30"-0-200 psig
3430A-NV-2*	0-15 psig	30"-0-30 psig	3432A-NV-2	0-125 psig	30"-0-200 psig
3431A	0-50 psig	30"-0-60 psig	3433A	0-250 psig	0-400 psig
3431A-NV	0-50 psig	30"-0-60 psig	3433A-NV	0-250 psig	0-400 psig
3431A-2*	0-50 psig	30"-0-60 psig	3433A-2	0-250 psig	0-400 psig
3431A-NV-2*	0-50 psig	30"-0-60 psig	3433A-NV-2	0-250 psig	0-400 psig

Note: These regulators cannot be supplied with CGA connections.

*1/8" compression NV = No outlet valve

Options

Model Number	Description
CON-0069-SA	Bonnet Vent Adapter 1/4" TB x 1/8" MNPT
PMK-2N	Bonnet Panel Mounting Kit - 2 Nuts
CON-0070-SA	Swagelok 1/4" Tube Fitting (2 Required)
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification