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:	3000 psig (20,700 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

Part Number	Delivery Pressure Range	Delivery Pressure Gauge	Partl Number	Delivery Pressure Range	Delivery Pressure Gauge
SEQ3430A	0-15 psig	30"-0-30 psig	SEQ3432A	0-125 psig	30"-0-200 psig
SEQ3430NV	0-15 psig	30"-0-30 psig	SEQ3432ANV	0-125 psig	30"-0-200 psig
SEQ3430A2*	0-15 psig	30"-0-30 psig	SEQ3432A2	0-125 psig	30"-0-200 psig
SEQ3430ANV2*	0-15 psig	30"-0-30 psig	SEQ3432ANV2	0-125 psig	30"-0-200 psig
SEQ3431A	0-50 psig	30"-0-60 psig	SEQ3433A	0-250 psig	0-400 psig
SEQ3431ANV	0-50 psig	30"-0-60 psig	SEQ3433ANV	0-250 psig	0-400 psig
SEQ3431A2*	0-50 psig	30"-0-60 psig	SEQ3433A2	0-250 psig	0-400 psig
SEQ3431ANV2*	0-50 psig	30"-0-60 psig	SEQ3433ANV2	0-250 psig	0-400 psig

Note: These regulators cannot be supplied with CGA connections.
*1/8" compression   NV = No outlet valve

Options

Part Number	Description
SEQCON0069SA	Bonnet Vent Adapter 1/4" TB x 1/8" MNPT
SEQPMK2N	Bonnet Panel Mounting Kit - 2 Nuts
SEQCON0070SA	Swagelok 1/4" Tube Fitting (2 Required)
SEQMSP0012XX	Inboard Helium Leak Rate Certification
SEQMSP0013XX	Combination Inboard/Outboard Helium Leak Rate Certification