



Models 3450 Series

High-Purity/High Flow Stainless Steel Line Regulator



Description

A high purity line regulator for use with non-corrosive or semi-corrosive gases including dichlorosilane, ammonia, or amines in high flow applications.

Applications

- Point-of-use regulation of gases in high purity, high flow applications (up to 730 SCFH).

Design Features/Components

- High-purity 316L stainless steel body
- 316 stainless steel diaphragm
- Metal to metal seals minimize diffusion of contaminants
- 2" delivery pressure gauge
- Bonnet ported and threaded to pipe gases away from work area
- Equipped with outlet diaphragm valve
- 1/4" compression tube inlet/outlet connection
- Porous metal filter protects seat from contamination
- Bonnet threaded for panel mounting
- Body screw thread tapped for back mounting

Materials of Construction

Gauges:	316 stainless steel
Body:	316L stainless steel
Bonnet:	Stainless steel
Diaphragm:	316 stainless steel
Seat:	Teflon
Seals:	Metal to metal

Specifications

Maximum Inlet Pressure:	500 psig (3,450 kPa)
Maximum Flow Rate:	Model 3452: 900 SCFH (425 SLPM) Model 3454: 1800 SCFH (850 SLPM)
(At 500 psig, N ₂)	
Flow Capacity (Cv):	0.6
Operating Temperature:	-40°F to 165°F (-40°C to 74°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	1 High, 2 Low
Shipping Weight:	5 lbs

Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge
3452	2-30 psig	30" vac-0-60 psig
3454	4-100 psig	30" vac-0-200 psig
3452-678**	2-30 psig	30" vac-0-60 psig

*Note: This Series cannot be supplied with CGA connections rated higher than 500 psig.

**For Dichlorosilane only

Options

Model Number	Description
ADP-0162-SA	Bonnet Vent Adapter to 1/8" FNPT
KIT-0204-SA	Bonnet Panel Mounting Kit
OPN-0301-SA	Swagelok 1/4" Tube Fitting (Stainless Steel) (2 Required)
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification