



Model 3610A Series

Single-Stage High-Purity Stainless Steel Regulator with Tied Diaphragm



Description

High-purity regulators designed for analytical applications using corrosive, toxic, or pyrophoric gases.

Applications

- Supply of corrosive, toxic, or pyrophoric gases where a positive closure of the regulator is desired.
- Supply of corrosive/toxic gases to semiconductor manufacturing processes.

Design Features/Components

- High-purity 316 stainless steel barstock body
- High-purity 316 stainless steel diaphragm
- Metal to metal seals minimize diffusion of contaminants
- 2" inlet and delivery pressure gauges
- Bonnet ported and threaded to pipe gases away from the work area

- Tied seat design helps to ensure regulator closure
- Equipped with outlet diaphragm valve
- 1/4" compression tube outlet connection
- Porous metal filter protects seat from contamination
- Panel mountable from rear with two threaded holes

Materials of Construction

Gauges:	316 stainless steel
Body:	316 stainless steel
Bonnet:	Nickel plated brass
Diaphragm:	316 stainless steel
Seat:	Kel-F 81
Seals:	Metal to metal

Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
Maximum Flow Rate:	Model 3610A: 550 SCFH (320 SLPM) (At 2500 psig, N ₂) Model 3611A: 135 SCFH (100 SLPM) (At 300 psig, N ₂) Model 3612A: 195 SCFH (250 SLPM) (At 2500 psig, N ₂) Model 3613A: 400 SCFH (250 SLPM) (At 2500 psig, N ₂) Model 3615A: 550 SCFH (320 SLPM) (At 2500 psig, N ₂)
Flow Capacity (Cv):	0.09
Operating Temperature:	-40°F to 160°F (-40°C to 71°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	2 High, 2 Low
Optional Porting:	3 High, 3 Low (For relief valve)
Shipping Weight:	5 lbs

Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
3610A-CGA	4-100 psig	30" vac-0-200 psig	0-3000 psig
3611A-N/I	2-30 psig	30" vac-0-60 psig	30" vac-0-300 psig
3612A-CGA	2-30 psig	30" vac-0-60 psig	0-1000 psig
3613A-CGA	2-30 psig	30" vac-0-60 psig	0-3000 psig
3615A-CGA	4-100 psig	30" vac-0-200 psig	0-1000 psig

*Note: Some CGA limitations may apply.

Options

Model Number	Description
4754-CGA	Tee Purge Assembly
4774-CGA	Cross Purge Assembly
ADP-0019-BO	Bonnet Vent Adapter 1/8" NPT to 1/4" Compression
OPN-0301-SA	Swagelok 1/4" Tube Fitting (Stainless Steel)
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification