



## Model 3590 Series Low Dead Volume Stainless Steel Regulator



### Description

High-purity stainless steel regulator with a minimal (7 cubic centimeters) internal volume to minimize contamination.

### Applications

- Use with mixtures containing trace quantities of reactive and/or adsorptive gases or vapors
- Use with EPA protocols, NIST traceability experiments, and trace impurity analysis
- The 3590-TO is specially cleaned for use with TO-14 calibration standards

### Design Features/Components

- High-purity stainless steel body
- High-purity stainless steel diaphragm
- Metal to metal seals
- Low dead volume minimizes contamination and adsorption
- 1/8" compression tube outlet connection
- 3590-TO model specially cleaned to remove all VOC compounds

### Materials of Construction

Body:	316 stainless steel
Bonnet:	Nickel plated brass
Diaphragm:	316 stainless steel
Seat:	Kel-F
Seals:	Silver

### Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
Maximum Flow Rate:	21 SCFH (10 SLPM)
(At 2000 psig, N <sub>2</sub> )	
Flow Capacity (Cv):	0.04
Operating Temperature:	-40°F to 200°F (-40°C to 93°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	1 High, 1 Low
Shipping Weight:	4 lbs

### Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
3590A-CGA	2-100 psig	None	None
3590-TO-CGA	2-100 psig	None	None

\*Note: Some CGA limitations may apply.

### Options

Model Number	Description
MSP-0012-XX	Inboard Helium Leak Rate Certification
MSP-0013-XX	Combination Inboard/Outboard Helium Leak Rate Certification