

## 325 Series

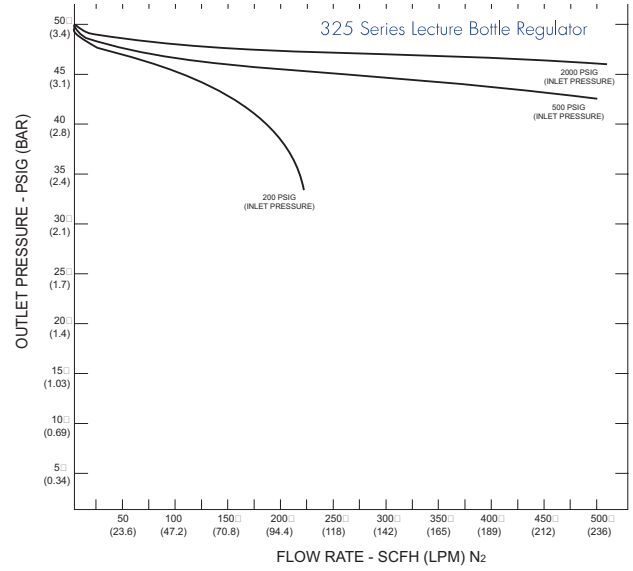
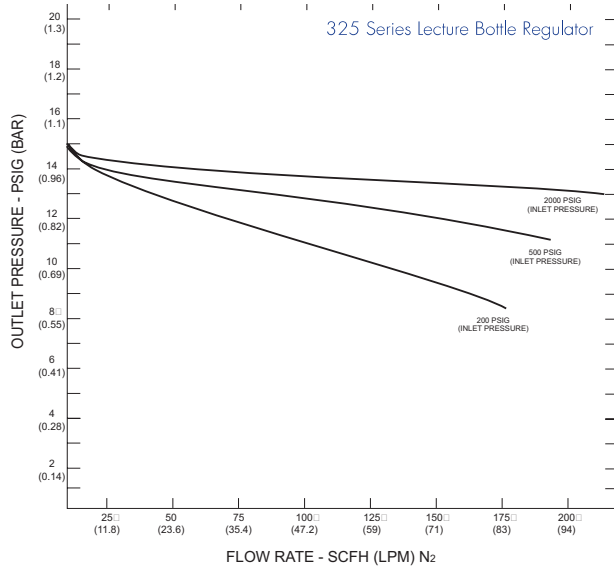
single stage, brass barstock lecture bottle regulator



Description	Advanced Features	Typical Applications
<p>The 325 Series regulators are specifically designed for use with noncorrosive gases in lecture bottles. The incorporation of our smallest Capsule® allows excellent pressure regulation over the useful pressure range of a lecture bottle.</p>	<ul style="list-style-type: none"> <li>• Chrome-plated brass barstock body Smooth surface finish</li> <li>• Low droop Stable outlet pressure</li> <li>• 1½" pressure gauges Small envelope</li> </ul>	<ul style="list-style-type: none"> <li>• University classrooms</li> <li>• University laboratories</li> <li>• Chemical research</li> <li>• Pharmaceutical manufacturing</li> </ul>

300 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> <li>• <i>Capsule® seat</i> Increased serviceability and life</li> <li>• <i>316L stainless steel diaphragm</i> No inboard diffusion</li> <li>• <i>Low wetted surface area</i> Minimal purge requirements</li> <li>• <i>Field-adjustable pressure limit</i> Safeguard downstream equipment</li> <li>• <i>Convolute diaphragm</i> Smooth pressure changes</li> <li>• <i>Compact design</i> Easily transported and integrated</li> </ul>	<p><i>Body</i> Chrome-plated brass barstock</p> <p><i>Bonnet</i> Chrome-plated die cast zinc</p> <p><i>Seat</i> PTFE</p> <p><i>Filter</i> 10 micron sintered bronze</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Internal Seals</i> PTFE</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR)</p> <p><i>Temperature Range</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Gauges</i> 1½" diameter chrome-plated brass</p> <p><i>Ports</i> ⅛" FPT (¼" FPT relief valve)</p> <p><i>Helium Leak Integrity</i> 1 x 10<sup>-8</sup> scc/sec</p> <p><i>Cv</i> 0.02</p> <p><i>Weight (325-3351-180)</i> 2.0 lbs. (0.89 kg)</p>

Flow Performance



Ordering Information and Configuration Options

325	A	B	C	D	-Inlet	Options	
Series 325	<b>Outlet Pressure</b> 1: 0-15 3: 0-50	<b>Outlet Gauge</b> 0-30 PSIG 0-100 PSIG	<b>Inlet Gauge</b> 0: None 3: 0-4000 PSIG	<b>Outlet Assemblies</b> 0: 1/8" FPT Port 1: 1/4" MPT 5: Needle Valve 1/8" MPT	<b>Assembly/ Gauges</b> 0: Bare Body 1: Standard Assembly	<b>Connections</b> 000: 1/8" FPT CGA 110 CGA 170 CGA 180	<b>Installed Options</b> None

## Lecture Bottle Equipment



### Series 3910

single stage brass lecture bottle regulator

### Series 3920

single stage stainless steel lecture bottle regulator

Description	Advanced Features		
<p>The Series 3910 regulator is designed for use with non-corrosive, non-toxic gases in lecture bottles. The Series 3920 lecture bottle regulator is designed for use with corrosive, and/or toxic lecture bottle gases. These light weight, compact single stage regulators incorporate many features found in our larger high purity regulators</p>	<ul style="list-style-type: none"> <li>• Small compact design.</li> <li>• Needle valve installed on outlet.</li> </ul>		
	Specifications		
	<p><i>Max. Inlet Pressure</i>  <i>Operating Temp. Range</i>  <i>Flow Coefficient (C<sub>v</sub>)</i>  <i>Body Inlet Connection</i>  <i>Body Outlet Connection</i>  <i>Outlet Valve Connection</i></p>	<p>Series 3910                      3000 psig                      0 to +140°F                      0.02                      1/8" NPT female                      1/4" NPT female                      1/4" NPT female</p>	<p>Series 3900                      3000 psig                      -40 to +140°F                      0.06                      1/8" NPT female                      1/8" NPT female                      1/8" NPT female</p>

Materials			
<p><i>Body</i>  <i>Internal Seals</i>  <i>Seat</i>  <i>Diaphragm</i>  <i>Filter</i>  <i>Bonnet</i>  <i>Gauges</i>  <i>Outlet Valve</i></p>	<p>Series 3910                      chrome-plated brass                      nylon                      polyurethane                      neoprene                      50 micron sintered                      bronze                      chrome plated brass                      chrome plated brass                      chrome plated brass</p>	<p>Series 3920                      316 stainless steel                      Teflon® &amp; Kel-F®                      Teflon PFA®                      316 stainless steel                      50 micron stainless steel                      anodized aluminum                      stainless steel                      stainless steel</p>	<p>Series 3900                      Aluminum                      Teflon® &amp; Kel-F®                      Teflon PFA®                      316 stainless steel                      50 micron stainless steel                      anodized aluminum                      brass                      brass</p>

Ordering Information			
Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3910-15-170	2-15	0-30	0-4000
3910-60-170	4-60	0-100	0-4000
3910-15-180	2-15	0-30	0-4000
3910-60-180	4-60	0-100	0-4000
3900-30-170	2-30	0-60	0-3000
3900-30-180	2-30	0-60	0-3000
3900-60-170	2-60	0-100	0-3000
3900-60-180	2-60	0-100	0-3000
T3920-30-180	2-30	0-60	0-3000
T3920-60-180	2-60	0-100	0-3000

## Lecture Bottle Equipment (cont.)

### Description

Lecture bottles have rounded ends and require some means of support when in use. We provide two types of holders here that meet most requirements.

#### Non-Tip Stand - Model 475

This stand offers a convenient method of securing a lecture bottle on a table or lab bench. The stand is made of light weight brushed aluminum and, yet the large diameter base provides stability even when a regulator is installed on the bottle.

#### Wall Mount Lecture Bottle Bracket - Model 480

This bracket is made of powder coated steel and has spring steel clips that provide firm, secure support to the lecture bottle. The bracket is ideal for securing lecture bottles to lab cart or bench set-ups, in carrying cases for portable systems, or in storage cabinets.

#### Lecture Bottle Control Valves - Models 3990-3993

These valves are specifically designed for attachment to lecture bottles to dispense their contents. They do not control pressure and should only be used when the operator is in attendance.



### Materials

	3990	3991	3992	3993
<i>Body</i>	brass	brass	316 stainless steel	aluminum-silicon bronze
<i>Stem</i>	303 stainless steel	303 stainless steel	316 stainless steel	Monel®
<i>Packing</i>	Teflon®	Teflon®	Teflon®	Teflon®
<i>Tubing</i>	hose barb	brass	316 stainless steel	Monel®

### Ordering Information

Model Number	Inlet Connection	Outlet Connection
3990-CGA	Specify CGA 170 or 180	1/4" O.D. hose barb
3991-CGA	Specify CGA 170 or 180	1/4" compression fitting w/10" long brass tubing
3992-180	CGA 180	1/4" compression fitting w/10" long SS tubing
3993-ASB-180	CGA 180	1/4" compression fitting w/10" long monel® tubing