

**IMPROVED NEW  
VERSION!**

# 620 Series Switchover

## *Laser Purity Automatic Switchover System Brass Barstock*

The 620 Series Laser Gas Switchover is a semi-automatic system designed to provide a continuous supply of laser purity gas. The system comes with your choice of flexible pigtails for use with 2 cylinders or manifold connectors for use with the Maniflex Modular Manifold System. The built in line regulator provides continuous delivery pressure during switchover.

### Advanced Features

- *User Friendly Priority Valve*  
One knob switches cylinder priority
- *Inlet Gland Check Valves on Pigtails*  
Prevents contamination and backflow



*Shown with the optional stand assembly.*

## Applications

### *Laser Pure Resonator Gases*

Helium  
Nitrogen  
Carbon Dioxide

### *Laser Mixed Resonator Gases*

Three gas premix  
Four gas premix  
Five gas premix

### *Laser Purging Gases*

Zero Grade Air  
Nitrogen Grade 5.0

## Materials

### *Bodies*

Brass barstock

### *Diaphragms*

316L stainless steel

### *Seats*

PTFE Teflon®

### *Filters*

10 micron sintered bronze

### *Internal Seals*

PTFE Teflon®

### *Weight*

8.25 lbs. (3.71 kg)

## Specifications

### *Maximum Inlet Pressure*

3000 PSIG (210 BAR)

4500 PSIG (300 BAR)

### *Temperature Range*

-40 to 140°F (-40 to 60°C)

### *Gauges*

2" diameter dual scale brass

### *Outlet Connection*

¼" stainless steel tube

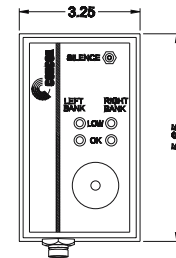
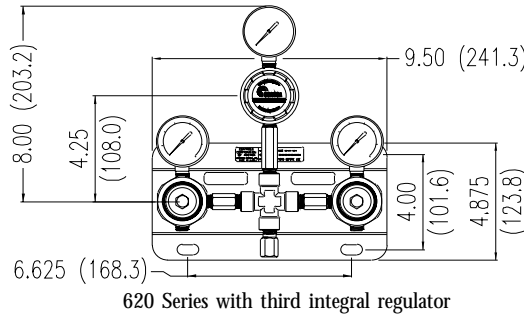
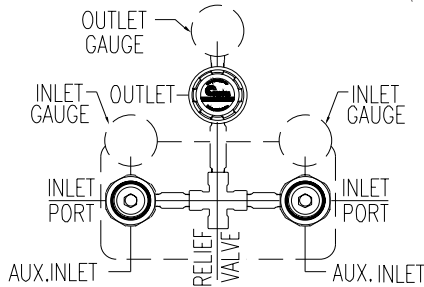
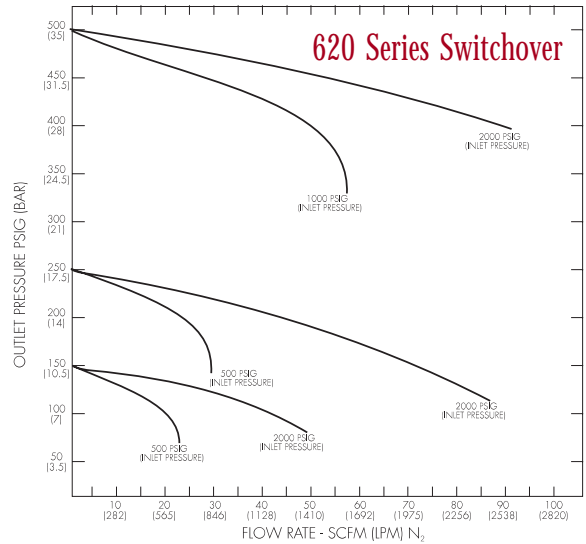
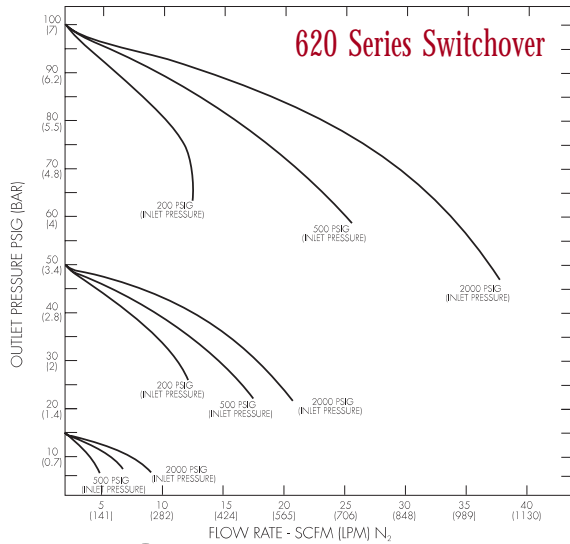
### *Helium Leak Integrity*

1 x 10<sup>-8</sup> scc/sec

### *Cv*

0.2

# Flow Performance Curves



## Ordering Information

620-	A	B	C	D	-CGA
<b>Series</b> 620	<b>Max Delivery Pressure</b> 2: 70 PSIG (5BAR) 3: 100 PSIG (7 BAR) 4: 200 PSIG (14 BAR) 5: 500 PSIG (33 BAR)*  *Not available if D=8	<b>Inlet Connection</b> 0: 1/4" FPT Port 1: Manifold Connector for Maniflex Header* 2: Manifold Connector with Diaphragm Valves* 3: Diaphragm Valve (with 1/4" FPT Port) 5: Tee Purge 6: Tee Purge & Diaphragm Valve (with 1/4" FPT Port)  *Manifold connector required with multiple cylinders per side. (Each manifold station includes a pigtail with CGA inlet for cylinder connection.)	<b>Cylinders/Side</b> 0: 1 Cylinder (1/4" FPT Inlet) 1: 1 Cylinder (Pigtail Inlets) 2: 2 Cylinders 3: 3 Cylinders 4: 4 Cylinders 5: 5 Cylinders 6: 6 Cylinders	<b>Assembly/Gauges</b> 1: Standard Assembly 8: Third Regulator Included	<b>Pigtails</b> Please specify CGA inlet connections if applicable.  <i>International fittings are also available.</i>

## Related Options

Option	Order No.	Description
Laser Panels	See Page 25	Three Gas Panel delivery systems for the Laser Gases (Helium, Nitrogen and Carbon Dioxide)
Filters	See Page 42	Filters protect the purity of the gas stream
Stand Assembly & 110V Alarm	Add "X" to CGA	Stand Assembly holds two cylinders floor mounted
Stand Assembly & 220V Alarm	Add "Y" to CGA	110V and 220V Alarms have audio and visual indicators
Stand Assembly Only	Add "Z" to CGA	<i>Ordering Example: For a requirement of 70 PSIG delivery pressure, with a 1/4" FPT inlet connection, for two cylinders (580 CGA), with the third integral regulator, and including a stand assembly with a 220V alarm system, the order number would be: 620-2028-580Y</i>
110V Alarm Only	Add "V" to CGA	
220V Alarm Only	Add "W" to CGA	