

IMPROVED NEW  
VERSION!

# 621 Series AutoSwitch

*Laser Purity*  
*Automatic*  
*Switchover System*  
*Brass Barstock*  
*With Remote Alarm*



The 621 Series laser gas switchover system provides a continuous gas delivery for laser resonator gases. The system will automatically change cylinder or bank priority without transmitting pressure fluctuations to the use line. Internal pressure switches and warning lights indicate low supply pressure and the need to exchange depleted cylinders. The system is designed for single and multiple cylinder use per side. Remote alarm and power supply included.

## Advanced Features

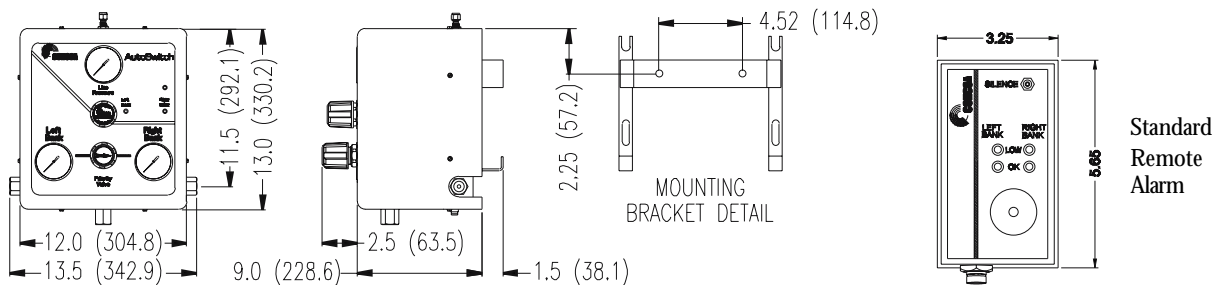
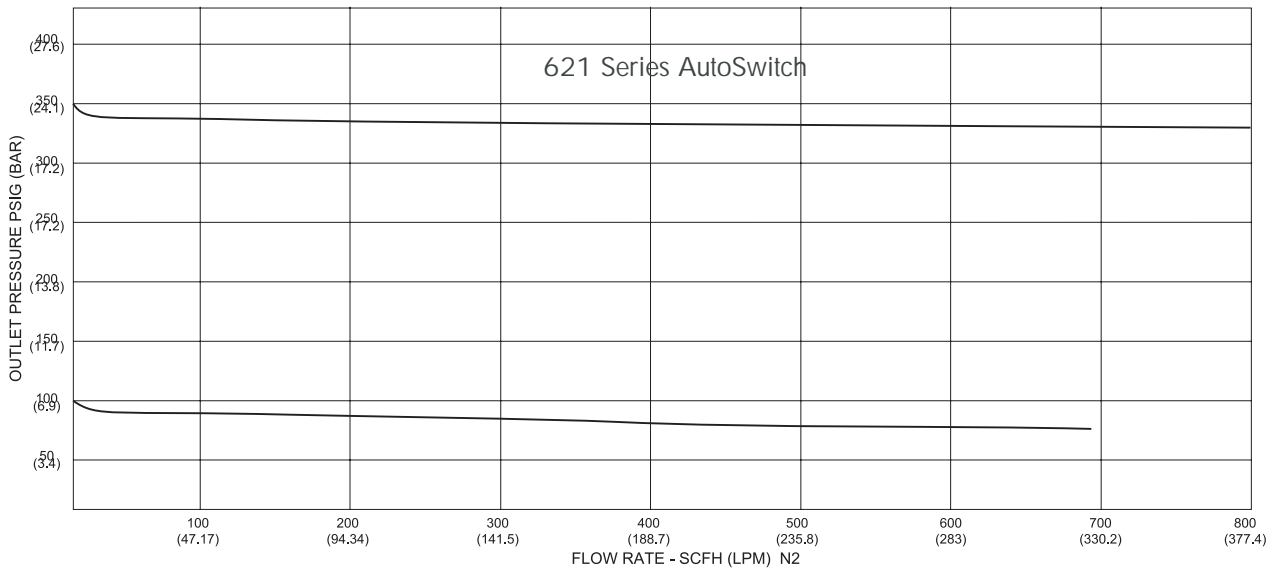
- *Integral Line Regulator*  
Stable line pressure during change over
- *Laser Quality System Components*  
Capsule® seat
- *Metal to Metal Seals*  
No possibility of gas contamination
- *Variable Line Pressure*  
Line pressure changeable on site
- *User-Friendly Priority Valve*  
One knob switches cylinder priority
- *Removable Enclosure Cover*  
Easy maintenance

## Materials

## Specifications

<i>Priority Valve</i> Brass barstock	<i>Internal Seals</i> PTFE Teflon®	<i>Maximum Inlet Pressure</i> 3000 PSIG (208 BAR) 4500 PSIG (310BAR)
<i>Line Regulator</i> Brass barstock	<i>Pressure Gauges</i> Brass (socket) Bronze (Bourdon tube) Stainless steel (case)	<i>Temperature Range</i> -40°F to 140°F (-40°C to 60°C)
<i>Diaphragms</i> 316L stainless steel	<i>Pressure Switches</i> 316 stainless steel (socket) 316 stainless steel (Bourdon tube) 316 stainless steel (case)	<i>Maximum Flow (Nitrogen)</i> 600 scfh (283 lpm)
<i>Seats</i> PTFE Teflon®	<i>Check Valves</i> Brass with Viton® seals	<i>Inlet Connection</i> ½" FPT
<i>Enclosure</i> Acrylic powder-coated steel		<i>Outlet Connection</i> ¼" Compression tube
<i>Tubing</i> 316 stainless steel		<i>Helium Leak Integrity</i> 1 x 10 <sup>-8</sup> scc/sec
<i>Tube Fittings</i> 316 stainless steel		<i>Weight</i> 40 lbs. (18 kg)

# Flow Performance Curves



## Ordering Information

621-	A	B	C	D	-CGA
<b>Series 621</b>	<b>Max Delivery Pressure</b> 3: 100 PSIG (7 BAR) 5: 350 PSIG (14 BAR) 7: 150 PSIG (10 BAR)*  <i>*Not Available on 4500 PSIG Models</i>	<b>Inlet Connection</b> 0: ¼" FPT Port 1: Manifold Connector for Maniflex Header** 2: Manifold Connector with Master Valves** 3: Diaphragm Valve (with ¼" FPT Port)# 6: Tee Purge & Diaphragm Valve (with ¼" FPT Port)# 7: Tee Purge, Diaphragm Valve (with ¼" FPT Port) & Manifold Connector for Maniflex Header#  <i>*Manifold connector required with multiple cylinders per side. (Each manifold station includes a pigtail with CGA inlet for cylinder connection.)</i> <i>#Not Available on 4500 PSIG Models</i>	<b>Cylinders/Side</b> 0: 1 Cylinder (¼" FPT Inlet) 1: 1 Cylinder (Pigtail Inlets) 2: 2 Cylinders 3: 3 Cylinders 4: 4 Cylinders 5: 5 Cylinders 6: 6 Cylinders <b>4500 PSIG</b> 0: ¼" FPT Port 1: 3 ft. Pigtails 3: 6 ft. Pigtails	<b>Max Inlet Press./Assmb.</b> 1: 3000 PSIG w/110V Alarm 2: 3000 PSIG w/ Multi-Interface Remote Alarm 3: 4500 PSIG/110V Alarm 4: 4500 PSIG w/Multi-Interface Remote Alarm 5: 3000 PSIG/220V Alarm 6: 3000 PSIG w/Multi-Interface Remote Alarm 7: 4500 PSIG w/220V Alarm 8: 4500 PSIG w/Multi-Interface Remote Alarm	<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
626-Style Switchover	Contact CONCOA	Column D options 2 and 6 allow users to power up to four switchovers with one remote alarm with enhanced notification capabilities including slave alarms, telephone dialers, and a computer interface