

621 Series AutoSwitch

Laser Purity
Automatic
Switchover System
Brass Barstock



621-3000 shown

The 621 Series laser gas switchover system provides 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 indicate low supply pressure and the need to exchange depleted cylinders. Indicator lights may be powered by a remote alarm. The system is designed for single and multiple cylinder use per side.

Advanced Features

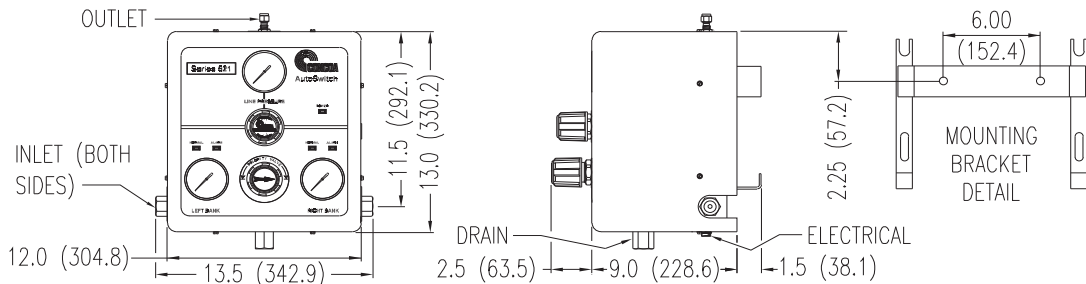
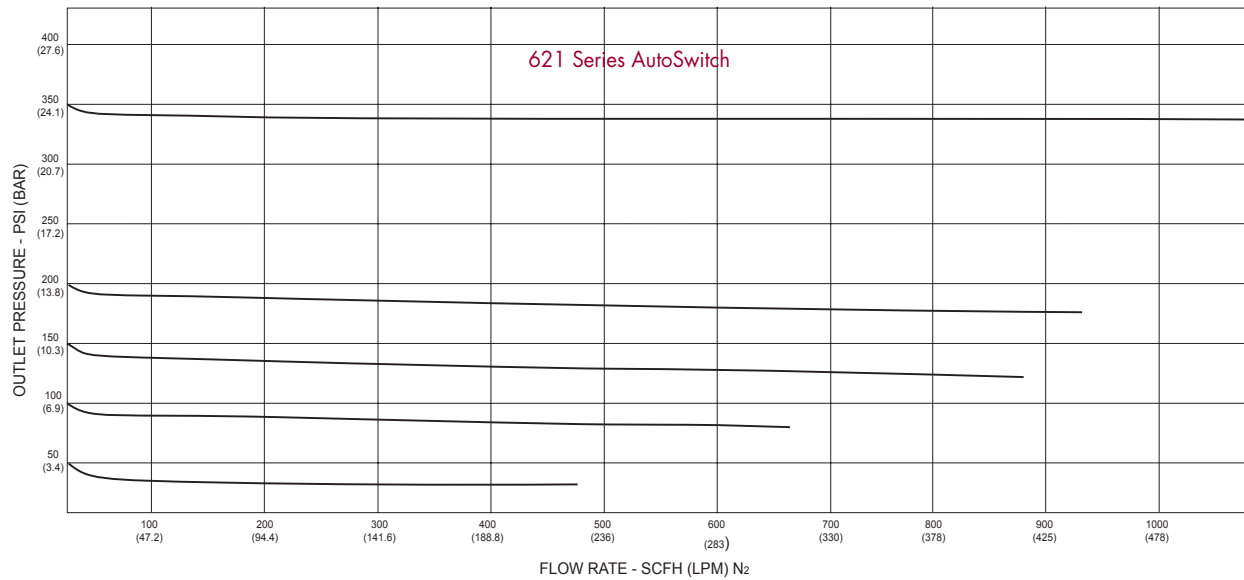
- *Integral Line Regulator*
Stable line pressure during change over
- *Laser Quality System Components*
Capsule® seat
- *Metal to Metal Seals*
No possibility of gas contamination
- *Variable Line Pressure*
Line pressure changeable on site
- *User-Friendly Priority Valve*
One knob switches cylinder priority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

Materials

Specifications

<p><i>Priority Valve</i> Brass barstock</p> <p><i>Line Regulator</i> Brass barstock</p> <p><i>Diaphragms</i> 316L stainless steel</p> <p><i>Seats</i> PTFE</p> <p><i>Enclosure</i> Acrylic powder-coated steel</p> <p><i>Tubing</i> 316 stainless steel</p> <p><i>Tube Fittings</i> 316 stainless steel</p>	<p><i>Internal Seals</i> PTFE</p> <p><i>Pressure Gauges</i> Brass (socket) Bronze (Bourdon tube) Stainless steel (case)</p> <p><i>Pressure Switches</i> Brass (socket) Bronze (Bourdon tube) Stainless steel (case)</p> <p><i>Check Valves</i> Brass with Viton® seals</p>	<p><i>Maximum Inlet Pressure</i> 3,000 PSIG (210 BAR) or 4,500 PSIG (310 BAR)</p> <p><i>Temperature Range</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Maximum Flow (Nitrogen)</i> 600 SCFH (283 lpm) @ 100 PSIG</p> <p><i>Inlet Connection</i> ½" FPT</p> <p><i>Outlet Connection</i> ¼" stainless steel compression tube</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁸ scc/sec</p> <p><i>Weight</i> 40 lbs. (18 kg)</p>
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Flow Performance Curves



Ordering Information

621	A	B	C	D	Inlet	Options
Series 621	Max Delivery Pressure 3: 100 PSIG (7 BAR) 5: 350 PSIG (14 BAR) 7: 150 PSIG (10 BAR)	Inlet Connection 0: 1/4" FPT Port 1: Manifold Connector for Maniflex Header* [†] 2: Manifold Connector with Master Valves* [†] 3: Diaphragm Valve (with 1/4" FPT Port) [†] 6: Tee Purge and Diaphragm Valve (with 1/4" FPT Port) [†] 7: Tee Purge and Diaphragm Valve with Manifold Connector for Maniflex Header [†] *Manifold connector required with multiple cylinders per side. (Each manifold station includes a pigtail with CGA inlet for cylinder connection.) [†] Not available with 4,500 PSIG (310 BAR) inlet models.	Cylinders Per Side 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	Max Inlet Pressure 0: 3,000 PSIG with alarm capability 8: 4,500 PSIG with alarm capability Select alarm from options listed below	Connection Please specify inlet connection CGA DIN 477 BS 341 and others available	Installed Options C: Compact Manifolds M: 6mm Tube Fitting Outlet N: Compact Manifolds and 6mm Tube Fitting Outlet

Remote Alarm Options

Option	Order No.	Description
Advantium 8	529-5310 (110 Volt) 529-5311 (220 Volt)	Remote alarm provides power for indicator lights up to four 621 Switchovers, audible and visual alarm at remote unit, RS-232 computer interface, and supports optional telephone dialers. Conforms to ANSI/AWS C7.2:1998 recommendations.
Advantium 2	529-5106-120 (110 Volt) 529-5106-220 (220 Volt)	Remote alarm provides audible remote alarm for a single 621 Switchover. Conforms to ANSI/AWS C7.2:1998 recommendations.
Floor Stand	830-7439	AutoSwitch floor stand
Manifold Floor Stand	830-7437	Single manifold floor stand provides support for up to two consecutive manifold extensions.