

# 620 Series Switchover

*Laser Purity*  
*Automatic Switchover System*  
*Brass Barstock*



620-2308-000 shown

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 either flexible pigtailed for use with two cylinders (one per side), or manifolds for two or more cylinders per side. The switchover requires final pressure regulation, which may be ordered integrally to the system, or separately for installation at the point-of-use.

### Advanced Features

- *Laser Quality Brass Regulators*  
Capsule® seat
- *Laser Quality Diaphragm and Seals*  
Limits possibility of contamination
- *User Friendly Priority Valve*  
One knob switches cylinder priority
- *Inlet Gland Check Valves on Pigtails*  
Prevents contamination and backflow

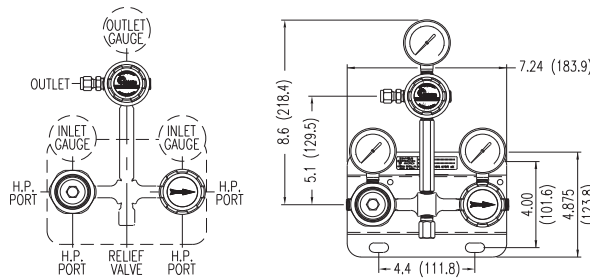
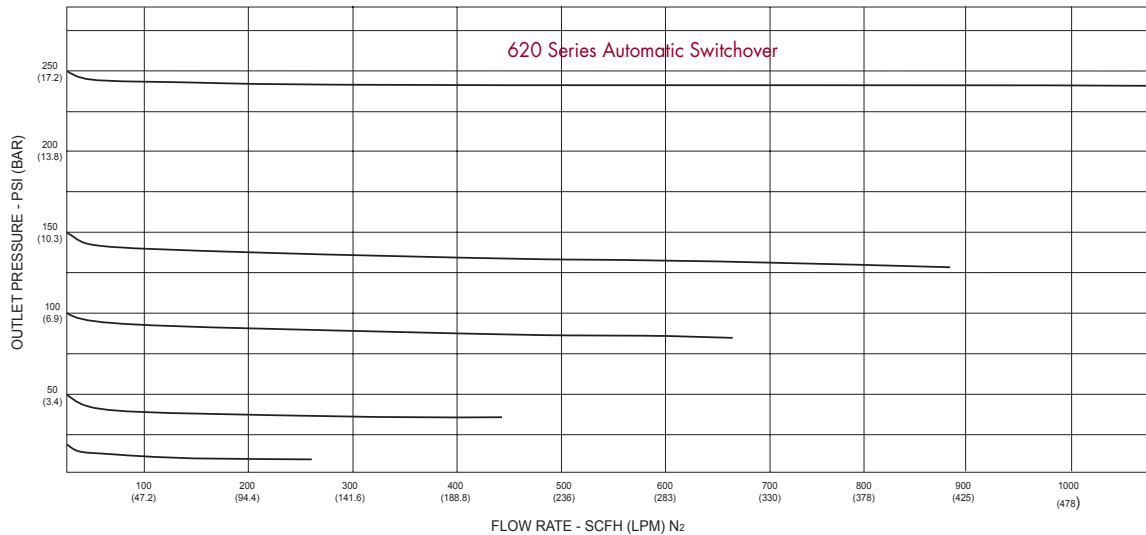
## Applications

## Materials

## Specifications

|  |   |   |
|--|---|---|
| <p><i>Laser Pure Resonator Gases</i><br/>Helium<br/>Nitrogen<br/>Carbon Dioxide</p> <p><i>Laser Mixed Resonator Gases</i><br/>Three gas premix<br/>Four gas premix<br/>Five gas premix</p> <p><i>Laser Purging Gases</i><br/>Zero Air<br/>Nitrogen</p> | <p><i>Bodies</i><br/>Brass barstock</p> <p><i>Diaphragms</i><br/>316L stainless steel</p> <p><i>Seats</i><br/>PTFE</p> <p><i>Filters</i><br/>10-micron sintered bronze</p> <p><i>Internal Seals</i><br/>PTFE</p> <p><i>Weight</i><br/>8.25 lbs. (3.71 kg)</p> | <p><i>Maximum Inlet Pressure</i><br/>3,000 PSIG (210 BAR)</p> <p><i>Temperature Range</i><br/>-40 to 140°F (-40 to 60°C)</p> <p><i>Gauges</i><br/>2" diameter dual scale brass</p> <p><i>Outlet Connection</i><br/>1/4" stainless steel compression tube</p> <p><i>Helium Leak Integrity</i><br/>1 x 10<sup>-8</sup> scc/sec</p> <p><i>Cv</i><br/>0.2</p> |
|--|---|---|

# Flow Performance Curves



## Ordering Information

| 620        | A  | B   | C  | D  | Inlet   | Options   |
|------------|--|---|--|--|---|---|
| Series 620 | Max Delivery Pressure<br>2: 70 PSIG (5 BAR)<br>3: 100 PSIG (7 BAR)<br>4: 200 PSIG (14 BAR) | Inlet Connection<br>0: ¼" FPT Port<br>1: Manifold Connector for Maniflex Header*<br>2: Manifold Connector with Master Valves*<br>3: Diaphragm Valve (with ¼" FPT Port)<br>6: Tee Purge & Diaphragm Valve (with ¼" FPT Port)<br>7: Tee Purge & Diaphragm Valve (with Manifold Connector)<br><br><i>*Manifold connector required with multiple cylinders per side. (Each manifold station includes a pigtail with CGA inlet for cylinder connection.)</i> | Cylinders Per Side<br>0: 1 Cylinder (¼" FPT Inlet)<br>1: 1 Cylinder (Pigtail Inlets)<br>2: 2 Cylinders<br>3: 3 Cylinders<br>4: 4 Cylinders<br>5: 5 Cylinders<br>6: 6 Cylinders | Assembly/ Gauges<br>2: No Line Regulator (BAR/PSI Gauges) no alarm capability<br>3: No Line Regulator (BAR/PSI Gauges) with alarm capability<br>7: Line Regulator (BAR/PSI Gauges) with alarm capability<br>8: Line Regulator (BAR/PSI Gauges) no alarm capability | Connection<br>Please specify inlet connection<br><br>CGA<br>DIN 477<br>BS 341<br>and others available | Installed Options<br>C: Compact Manifolds<br>M: 6mm Tube Fitting Outlet<br>N: Compact Manifolds and 6mm Tube Fitting Outlet |

## Remote Alarm Options

| Option                              | Order No.          | Description  |
|-------------------------------------|--------------------|--|
| Single Switchover Stand             | 518-1625           | Appropriate support for a single switchover with one cylinder per side.  |
| Multi Switchover Stand              | 518-1725           | Appropriate support for three switchovers with one cylinder per side.  |
| Advantium 2 Remote Alarm (110 Volt) | 529-5106-120       | Remote alarm provides audible/visual remote alarm for a single 620 Switchover. <b>Conforms to ANSI/AWS C7.2:1998 recommendations.</b>  |
| Advantium 2 Remote Alarm (220 Volt) | 529-5106-220       | Remote alarm provides audible/visual remote alarm for a single 620 Switchover. <b>Conforms to ANSI/AWS C7.2:1998 recommendations.</b>  |
| Advantium 8                         | 529-5310, 529-5311 | 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. <b>Conforms to ANSI/AWS C7.2:1998 recommendations.</b> |