



# Resonator Gas Supply

## 620 Series Switchover

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 pigtails 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

Ask About Our

**EXTENDED**  
WARRANTY

On This CONCOA Product



620-2308-000 shown

### 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 Air  
Nitrogen

### Materials

#### Bodies

Brass barstock

#### Diaphragms

316L stainless steel

#### Seats

PTFE

#### Filters

10-micron sintered bronze

#### Internal Seals

PTFE

#### Weight

8.25 lbs. (3.71 kg)

### Specifications

#### Maximum Inlet Pressure

3,000 PSIG (210 BAR)

#### Temperature Range

-40 to 140°F (-40 to 60°C)

#### Gauges

2" diameter dual scale brass

#### Outlet Connection

1/4" stainless steel compression tube

#### Helium Leak Integrity

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

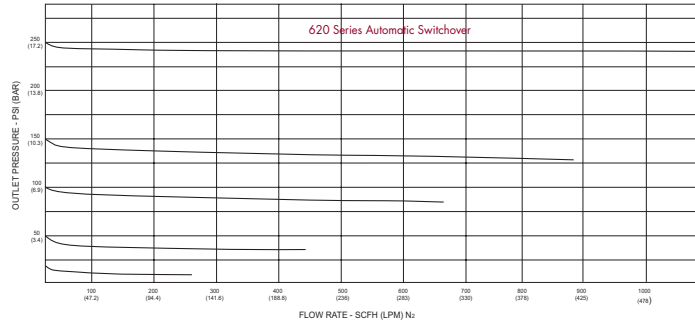
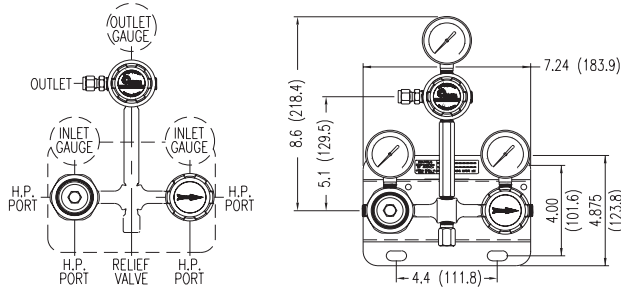
#### Cv

0.2

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## Flow Performance Curves



## Ordering Information

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

## Available Options

Option	Stock 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. <b>Conforms to ANSI/AWS C7.2:1998 recommendations.</b>
Advantium 2	575-0021 (110 Volt) 575-0022 (220 Volt)	Remote alarm provides audible remote alarm for a single 621 Switchover. <b>Conforms to ANSI/AWS C7.2:1998 recommendations.</b>
Manifold Floor Stand	830-7437	Single manifold floor stand provides support for up to two consecutive manifold extensions
Floor Stand	830-7439	AutoSwitch floor stand