620 SERIES SWITCHOVER

The 620 Series Laser Gas Switchover is an automatic system designed to provide a continuous supply of laser purity gas. The system comes with either flexible hoses 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.

6203008-01-000 shown

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 HOSE	Prevents contamination and backflow

Applications

Laser Pure Resonator Gases
Helium
Nitrogen
Carbon Dioxide

Laser Mixed Resonator Gases
Three gas premix
Four gas premix
Five gas premix

Materials

Bodies
Brass barstock

Diaphragms
316L stainless steel

Seats
PTFE

Filters
10-micron sintered bronze

Internal Seals
PTFE

Specifications

Maximum Inlet Pressure
3000 PSIG (210 BAR)

Temperature Range
-40°F to 140°F (-40°C to 60°C)

Gauges
2" (50mm) diameter dual-scale brass

Outlet Connection
¼" stainless steel compression tube

Helium Leak Integrity
1×10^{-8} scc/sec

Cv
0.2
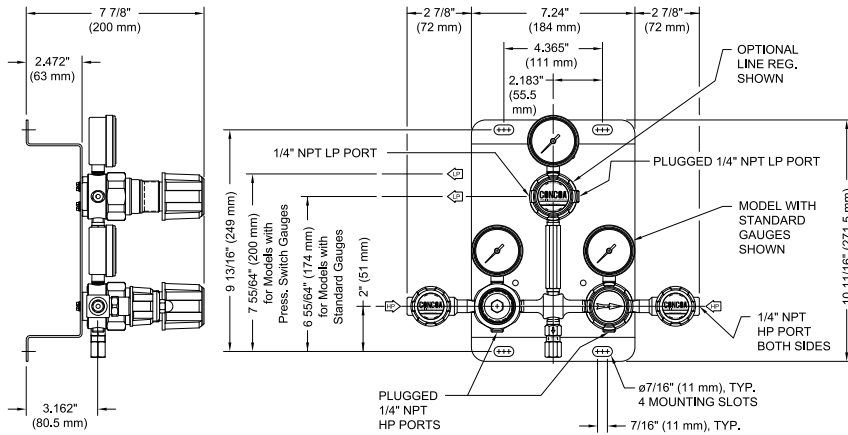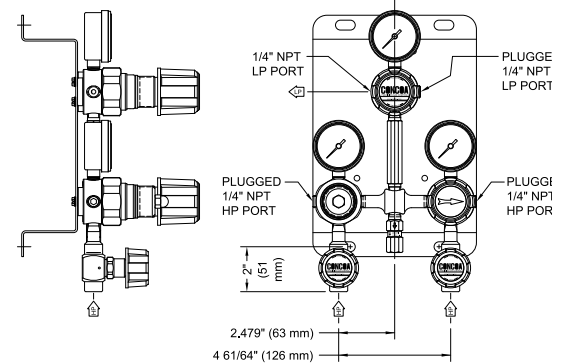
Resonator
Gas Supply

Installation Dimensions

Diaphragm Valves on Side Ports

Diaphragm Valves on Bottom Ports

Ordering Information

620	A	B	C	D	CON	Options
Series 620	**Max Delivery Pressure**	**Inlet Connection**	**Cylinders Per Side**	**Assembly/Gauges**	**Inlet**	**Installed Options**
	2: 70 PSIG (5 BAR)	0: ¼" FPT port	0: 1 cylinder (¼" FPT inlet)	2: No line regulator (BAR/PSIG gauges) and no alarm capability	Please specify inlet connection CGA DIN 477 BS 341 and others available	C: Compact manifolds
	3: 100 PSIG (7 BAR)	1: Manifold connector	1: 1 cylinder†	3: No line regulator (BAR/PSIG gauges) and with alarm capability		M: 6mm tube fitting outlet
	4: 200 PSIG (14 BAR)	2: Manifold connector with master valves*	2: 2 cylinders	7: Line regulator (BAR/PSIG gauges) and with alarm capability		N: Compact manifolds and 6mm tube fitting outlet
		3: Diaphragm valve (with ¼" FPT port)	3: 3 cylinders	8: Line regulator (BAR/PSIG gauges) and no alarm capability		
		6: Tee purge & diaphragm valve (with ¼" FPT port)	4: 4 cylinders			
		7: Tee purge & diaphragm valve (with manifold connector)	5: 5 cylinders			
			6: 6 cylinders			
			7: 7 cylinders			
			8: 8 cylinders			
			9: 9 cylinders			

*Manifold connector required with multiple cylinders per side. Each manifold station includes a 36" (900mm) stainless steel-lined hose.

†Includes 36" (900mm) stainless steel-lined hoses if manifold connectors are not selected

Available Options

Option	Part No.	Description
Advantium 8	5295310-01-001 (110 Volt) 5295311-01-001 (220 Volt)	Remote alarm provides power for indicator lights up to four 620 Switchovers, audible and visual alarm at remote unit, RS-232 computer interface, and supports optional telephone dialers.
Advantium 2	5750023 (110/220 Volt)	Remote alarm (universal input) provides audible remote alarm for a single 620 Switchover.
Vent Extension Kit	8299962	Four cylinder vent manifold extension block with mounting hardware
Manifold Floor Stand	8307437	Single manifold floor stand provides support for up to two consecutive manifold extensions
Floor Stand	8307439	AutoSwitch floor stand