

621 SERIES Resonator Gas Supply

621 SERIES AUTOSWITCH



6213000-01-001 shown

The 621 Series Laser Gas Switchover system provides continuous gas delivery from 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 through lights on the front panel 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 BRASS 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

Priority Valve
Brass barstock

Line Regulator
Brass barstock

Diaphragms
316L stainless steel

Seats
PTFE

Enclosure
Acrylic powder-coated steel

Tubing
316 stainless steel

Internal Seals
PTFE

Pressure Gauges
Brass (socket)
Bronze (bourdon tube)
Stainless steel (case)

Check Valves
Brass with Viton® seals

Specifications

Maximum Inlet Pressure
3000 PSIG (210 BAR)
4500 PSIG (310 BAR)

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

Maximum Flow (Nitrogen)
600 SCFH (283 lpm)
@ 100 PSIG (7 BAR)

Inlet Connection
½" FPT

Outlet Connection
¼" stainless steel compression tube

Helium Leak Integrity
1 x 10⁻⁹ scc/sec

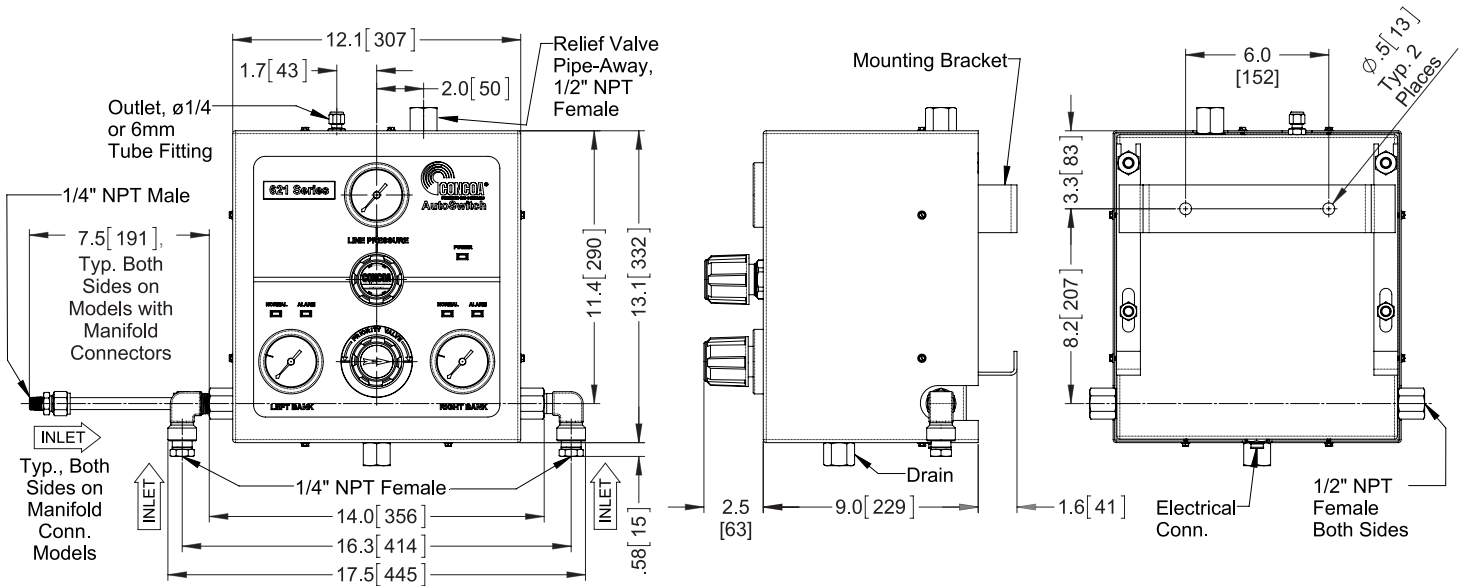
Weight
40 lbs. (18 kg)

Resonator

Gas Supply

621 SERIES

Installation Dimensions



Resonator Gas Supply

Ordering Information

621 Series	A Max Delivery Pressure	B Inlet Connection	C Cylinders Per Side	D Max Inlet Pressure	CON Inlet	Options Installed Options
621	3: 100 PSIG (7 BAR)	0: 1/4" FPT port*	0: 1 cylinder (1/4" FPT inlet)	0: 3000 PSIG (210 BAR) with alarm capability	Please specify inlet connection CGA DIN 477 BS 341 and others available	C: Compact manifolds
	5: 350 PSIG (14 BAR)	1: Manifold connector†	1: 1 cylinder ‡	1: 3000 PSIG (210 BAR) with Advantium 2 alarm		M: 6mm tube fitting outlet
	7: 150 PSIG (10 BAR)	2: Manifold connector with master valves†	2: 2 cylinders	8: 4500 (310 BAR) with alarm capability		N: Compact manifold and 6mm tube fitting outlet
		3: Diaphragm valve with 1/4" FPT port*†	3: 3 cylinders			
		6: Tea purge and diaphragm valve with 1/4" FPT port†	4: 4 cylinders			
		7: Tee purge and diaphragm valve with manifold connector †	5: 5 cylinders			
			6: 6 cylinders			

*Valid with C=0 or C=1

†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

Advantium 8	5295310-01-001 (110 Volt) 5295311-01-001 (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.
Advantium 2	5750023-01-000 (110/220 Volt)	Remote alarm (universal input) provides audible remote alarm for a single 621 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