

# 639 SERIES AUTO SWITCH



The 639 Series Assist Gas Swichover is a primary-reserve system designed to provide a continuous supply of laser assist gas from two high pressure sources. The system comes pre-mounted on a stainless steel panel, complete with flexible hoses for connections to bulk high pressure sources. Additionally, the 639 pressure differential swichover may be purchased with options such as open ports or flexible pigtails, an Altos 2 remote alarm, and an integral line regulator. If constant regulated outlet pressure is required, either the integral line regulation option is required, or a regulator will need to be installed downstream after the swichover system.



6397003-01-42 shown

## Typical Applications

- Laser Assist Gases:  
Helium, Nitrogen, Oxygen, and Argon
- High Pressure Sources:  
Tube Trailers, Cylinder Cradles, and Bulk Stations

## Features

- Primary and Reserve Bank** switches automatically to reserve when depleted
- Dome-Loaded Pressure Control** provides steady, high flow service up to 9000 SCFH (4200 lpm)
- Cartridge Sensor** ensures precise pressure control
- Optional Altos 2™ Alarm** gives visual and audible notification for continuous system operation
- Optional Line Regulator** maintains constant line pressure during changeover

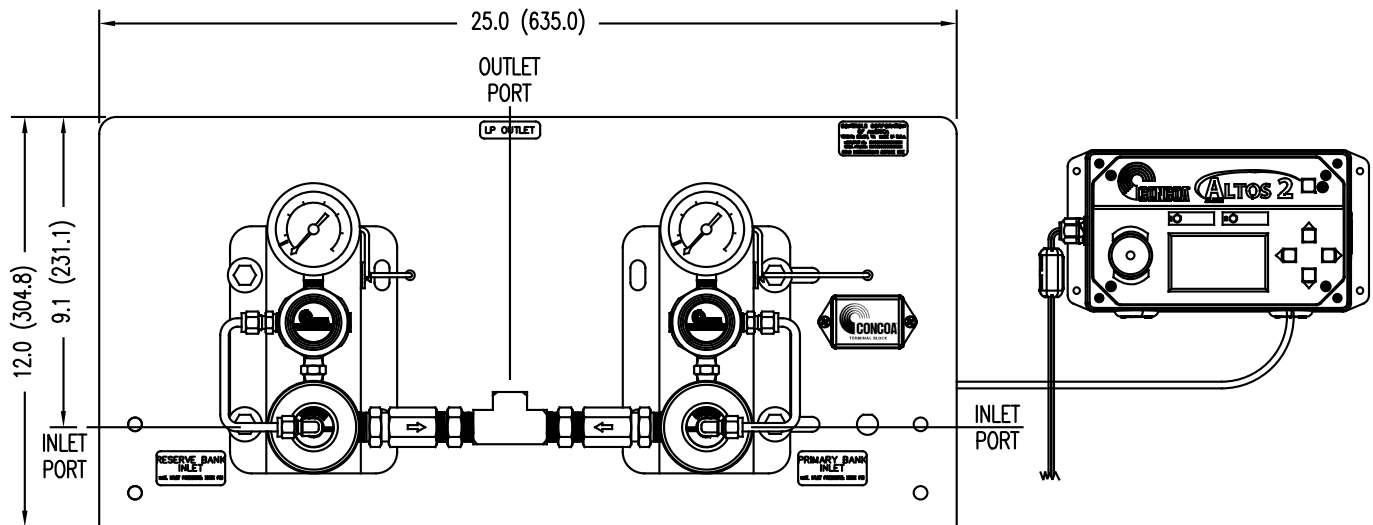
## Materials and Specifications

- Maximum Inlet Pressure:** 3000 PSIG (210 BAR) PTFE; 4500 PSIG (310 BAR) PCTFE
- Temperature Range:** -40°F to 140°F (-40°C to 60°C)
- Gauges:** 2 in (50 mm) diameter brass case
- Ports (inlet/outlet):** 1/4 in FNPT
- Cv:** 0.2
- Weight:** 124 lbs. (56 kg)
- Regulator Bodies:** Brass barstock
- Bonnets:** Brass barstock
- Internal Seals:** PTFE and FKM
- Seats:** PTFE and PCTFE
- Filter:** 40-micron sintered bronze
- Pressure Gauges:** Brass (socket); Bronze (bourdon tube); Brass (case)
- Flexible Hoses (optional):** Armor casing, stainless steel lined
- Conformances:** Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN OC17947.5

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## Installation Dimensions



Shown with Altos 2 remote alarm (sold separately).

## Ordering Information

639	A	B	C	D	E	F
Series 639	Nominal Max Out (Primary Supply)	Primary Supply Inlet Configuration	Reserve Supply Inlet Configuration	Max Inlet Pressure/ Assembly	Gas Service	Final Pressure Control
	4: 250 PSIG/17 BAR (500 PSIG/35 BAR)	0: No hose assembly	0: No hose assembly	3: 3000 PSIG (210 BAR) with no alarm capability	0: Oxygen	1: Line regulator not included
	5: 400 PSIG/28 BAR (650 PSIG/45 BAR)	5: 6 ft (1800 mm) hose	5: 6 ft (1800 mm) hose	4: 3000 PSIG (210 BAR) with alarm capability	4: Inert (Argon, Nitrogen, and Helium)	2: Integral line regulator*
	7: 600 PSIG/41 BAR (850 PSIG/60 BAR)	6: 12 ft (3700 mm) hose	6: 12 ft (3700 mm) hose	8: 4500 PSIG (310 BAR) with no alarm capability		*If A=4, Not available If A=5, 0-400 (0-27 BAR) If A=7, 0-600 (0-40 BAR)
		9: 12 ft (3700 mm) tube trailer*	9: 12 ft (3700 mm) tube trailer*	9: 4500 PSIG (310 BAR) with alarm capability		
		*Not available with 4500 PSIG (310 BAR) inlet		Select alarm from options listed below		

## Related Options

Part No.	Description
5750025-01-24V	Altos 2™ Remote System Monitor (universal voltage input)
5750164	Advantium 16 System Monitor
5181625	Gas Cylinder Switchover Stand, 2-Cylinder Capacity