

# 639 SERIES

# Assist Gas Supply

## 639 SERIES AUTOSWITCH



The 639 Series Assist Gas Switchover 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.

### Advanced Features

<b>PRIMARY AND RESERVE BANK</b>	Automatically switches to reserve when depleted
<b>OPTIONAL ALARM</b>	Visual and audible notification
<b>HIGH FLOW CAPACITY</b>	Flows up to 9000 SCFH (4200 lpm)
<b>CARTRIDGE SENSOR</b>	Precise pressure control

6397003-01-42 shown

### Applications

#### Laser Assist Gases

Helium  
Nitrogen  
Oxygen  
Argon

#### High Pressure Sources

Tube Trailers  
Cylinder Cradles  
Bulk Stations

### Materials

#### Body

Brass barstock body and bonnet

#### Seats

PTFE\* seat or PCTFE† seat

#### Seat

PTFE and Viton®

#### Filter

40-micron sintered bronze

#### Pressure Gauges

Brass (socket)  
Bronze (bourdon tube)  
Brass (case)

#### Flexible Hoses (Optional)

Aarmor-case stainless steel-lined

\*3000 PSIG (210 BAR) inlet

†4500 PSIG (310 BAR) inlet

### Specifications

#### Maximum Inlet Pressure

3000 PSIG (210 BAR)  
4500 PSIG (310 BAR)

#### Temperature Range

-40°F to 140°F (-40°C to 60°C)

#### Gauge

2" (50mm) diameter dual-scale brass

#### Ports

1/4" FPT

#### Helium Leak Integrity

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

#### Cv

0.2

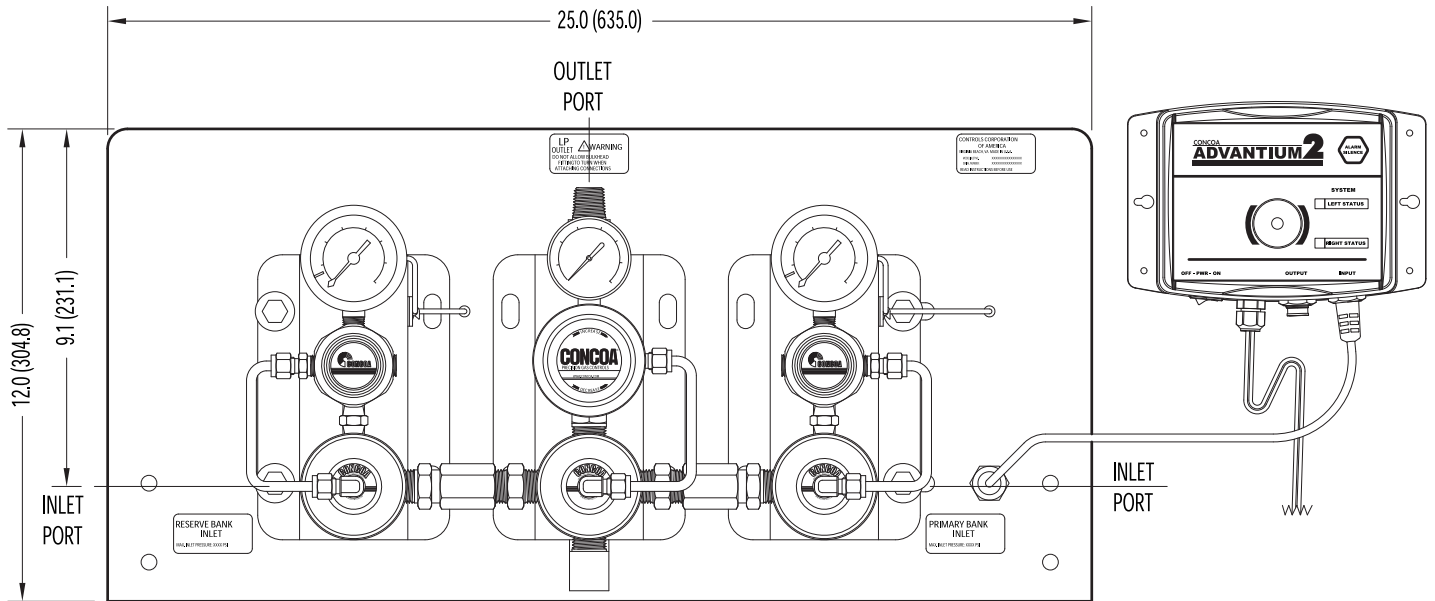
#### Weight

124 lbs. (56 kg)

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## Installation Dimensions



Shown with line regulator and remote alarm (sold separately).

## Ordering Information

639	A	B	C	D	E	F
<b>Series 639</b>	<b>Nominal Max Out (Primary Supply)</b>	<b>Primary Supply Inlet Configuration</b>	<b>Reserve Supply Inlet Configuration</b>	<b>Max Inlet Pressure/ Assembly</b>	<b>Gas Service</b>	<b>Final Pressure Control</b>
	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: 6ft (1800mm) hose	5: 6ft (1800mm) 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: 12ft (3700mm) hose	6: 12ft (3700mm) 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: 12ft (3700mm) tube trailer*	9: 12ft (3700mm) tube trailer*	9: 4500 PSIG (310 BAR) with alarm capability		
		*Not available with 4500 PSIG (310 BAR) inlet		Select alarm from options listed below		

## Available Options

Switchover Stand	5181625	Appropriate support for switchover with one cylinder per side
Advantium 8 Alarm	5295310-01-001 (110 Volt)	Remote alarm provides power for indicator lights for up to four 639 Switchovers, as well as audible and visual alarm at remote unit and RS-232 computer interface. The unit also supports optional telephone dialers.
Mounting Bracket	8350204	Rear panel mount bracket kit
Advantium 2 Plus Alarm	5750023	