

# 641 SERIES

**Assist**  
Gas Supply

## 641 SERIES INTELLISWITCH



The IntelliSwitch™ offers continuous pressure and flow control from liquid or high pressure cylinder sources. The end-user selects the ideal mode of supply by the simple push of a button. Proprietary software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return.

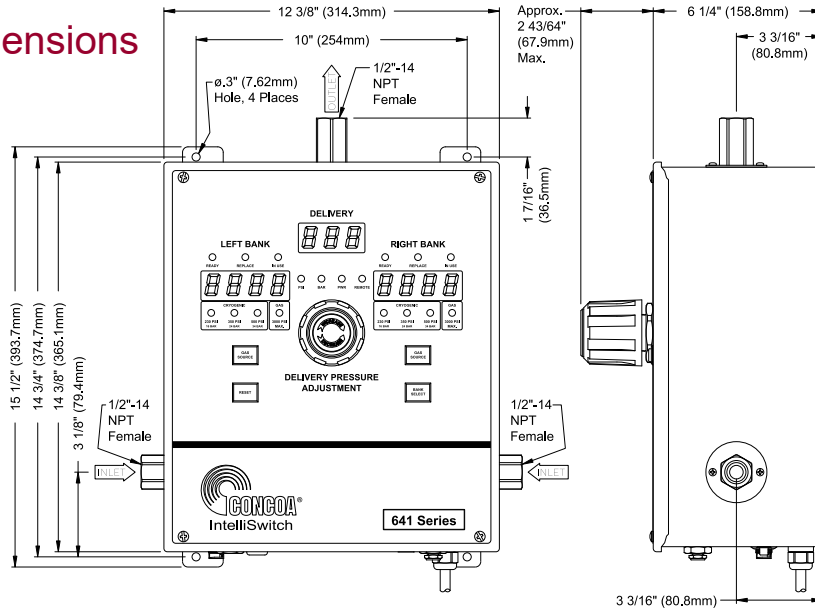
### Advanced Features

- MICRO-PROCESSOR CONTROL** Fully automatic priority assignment
- FIELD ADJUSTABLE SOFTWARE** Enables process flexibility
- ON-SITE SOURCE SELECTION** Liquid cylinder or high-pressure service
- LOW LOSS TECHNOLOGY** Reduces residual return
- ELECTRONIC ECONOMIZER** Eliminates liquid cylinder vent loss

6415002-01-1010 shown

Applications	Materials	Specifications
<b>Assist Gas Delivery from Liquid Cylinder Supply</b> Nitrogen Oxygen	<b>Bodies</b> Brass barstock	<b>Power Requirements</b> 110 or 220 VAC
<b>Assist Gas Delivery from High Pressure Supply</b> Air Nitrogen Oxygen	<b>Seats</b> PCTFE or Viton®	<b>Maximum Inlet Pressure</b> 3000 PSIG (210 BAR) 4500 PSIG (310 BAR)
<b>Assist Gas Delivery from Micro-Bulk or Bulk Supply</b> Nitrogen Oxygen	<b>Seals</b> Viton® and PTFE	<b>Temperature Range</b> 0°F to 100°F (18°C to -38°C)
<b>Laser Welding Shielding Gases</b> Argon Carbon Dioxide Helium	<b>Enclosure</b> Powder coated steel	<b>Filter</b> 40-micron
	<b>Flexible Hoses</b> Stainless steel braided, PTFE-lined (3000 PSIG/210 BAR max) Armor-cased, stainless steel-lined (4500 PSIG/310 BAR max)	<b>Mechanical Connections</b> ½" FPT inlet and outlet ⅛" FPT (external pilot inlet)
		<b>Cv</b> 2.0 - 3000 PSIG (210 BAR) max 1.0 - 4500 PSIG (310 BAR) max
		<b>Weight</b> 67 lbs (30.4 kg)

### Installation Dimensions



Assist Gas Supply

### Ordering Information

641 Series	A	B	0	D	E	F	G	H
641	Delivery Pressure	Inlet Connection		Assembly	Left Bank Inlet	Left Bank No. of Stations	Right Bank Inlet	Right Bank No. of Stations
	3: 100 PSIG (7 BAR)	0: No inlet connection		2: 3000 PSIG (210 BAR)/ 110 VAC internal pilot	1: 1/2" FPT port*	0: No hose	1: 1/2" FPT port*	0: No hose
	4: 200 PSIG (14 BAR)	1: CGA 580 (Inert)		3: 3000 PSIG (210 BAR)/ 220 VAC internal pilot	2: Single 72" (1800mm) hose	1: One station	2: Single 72" (1800mm) hose	1: One station
	5: 400 PSIG (28 BAR)	2: CGA 320 (CO <sub>2</sub> )		4: 4500 PSIG (310 BAR)/ 110 VAC external pilot*	3: Master valve with single 72" (1800mm) hose	2: Two stations	3: Master valve with single 72" (1800mm) hose	2: Two stations
		3: CGA 540 (Oxygen)		5: 4500 PSIG (310 BAR)/ 220 VAC external pilot*	4: MicroManifold with 72" (1800mm) hose	3: Three stations	4: MicroManifold with 72" (1800mm) hose	3: Three stations
		4: CGA 346 (Air)		*Regulator for external source not included	5: Master valve with MicroManifold and 72" (1800mm) hose	4: Four stations	5: Master valve with MicroManifold and 72" (1800mm) hose	4: Four stations
		5: CGA 590 (Industrial Air)			6: 628 manifold with 36" (900mm) hose ‡	5: Five stations	6: 628 manifold with 36" (900mm) hose ‡	5: Five stations
		A: CGA 680 (Inert Gas)			*Valid with F=0 only	6: Six stations	*Valid with H=0 Only	6: Six stations
		B: CGA 347 (Air)			‡Not valid with 4500 PSIG (310 BAR) max inlet	7: Seven stations	‡Not valid with 4500 PSIG (310 BAR) max inlet	7: Seven stations
		Foreign inlets available upon request.				8: Eight Stations		8: Eight Stations

### Available Options

Remote Alarm	Advantium Series	Provides audible and visual notification of a depleted supply bank to a remote location
Vent Manifold Kit	629 Series	Wall-mounted manifold designed to equalize liquid cylinder head pressure
AutoSwitch Floor Stand	8307439	Support AutoSwitch Enclosure
Manifold Floor Stand	8307437	Supports 2 standard length (12") manifold extensions installed consecutively