

# 641 Series IntelliSwitch™

*High Flow  
Cryogenic or  
High Pressure Supply  
Fully-Automatic  
Switchover*



641-5002-1010 Shown  
Patent Pending

The fully-automatic IntelliSwitch™ gas switchover is CONCOA's next generation of gas management systems. 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 a simple push of a button. Proprietary software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return which makes the IntelliSwitch™ the perfect gas management system.

## 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
- *Process Gas or Air Actuated Pilot Valve*  
Simple installation
- *RS 232 or 485 Communication*  
Provides remote monitoring of supply

## Applications

## Materials

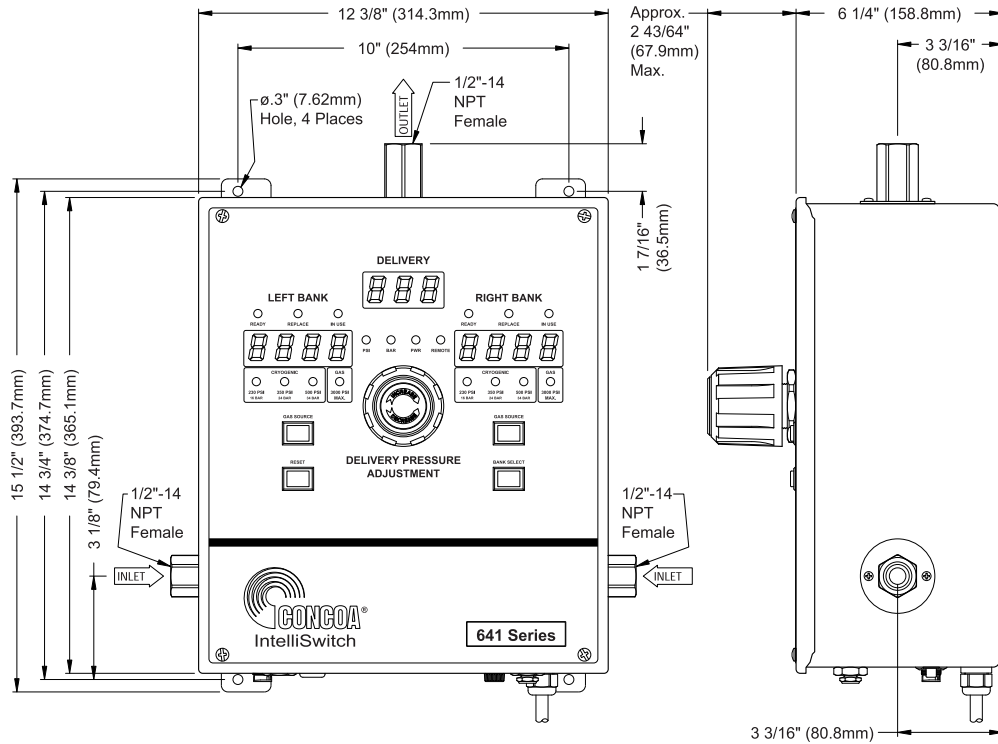
## Specifications

<p><i>Assist Gas Delivery from Liquid Cylinder Supply</i> Nitrogen Oxygen</p> <p><i>Assist Gas Delivery from High Pressure Supply</i> Air Nitrogen Oxygen</p> <p><i>Assist Gas Delivery from Micro-Bulk or Bulk Supply</i> Nitrogen Oxygen</p> <p><i>Laser Welding Shielding Gases</i> Argon Carbon Dioxide Helium</p>	<p><i>Bodies</i> Brass barstock</p> <p><i>Seats</i> PCTFE or Viton®</p> <p><i>Seals</i> Viton®, Neoprene, and PTFE</p> <p><i>Enclosure</i> Powder Coated Steel</p>	<p><i>Power Requirements</i> 110 or 220 VAC</p> <p><i>Maximum Inlet Pressure</i> 3,000 PSIG (210 BAR) or 4,500 PSIG (310 BAR)</p> <p><i>Temperature Range</i> 0 to 140°F (-18° to 60°C)</p> <p><i>Filter</i> 40-micron</p> <p><i>Connections</i> 1/2" FPT inlet and outlet 1/8" FPT (external pilot inlet)</p> <p><i>Cv</i> 2.0 (3,000 PSIG max) 1.0 (4,500 PSIG max)</p> <p><i>Weight</i> 67 lbs. (30.4 kg)</p>
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# Installation Dimensions



ASSIST GAS SUPPLY

## Ordering Information

641-	A	B	0	D	E	F	G	H
Series 641	<b>Delivery Pressure</b> 3: 100 PSIG 4: 200 PSIG 5: 400 PSIG	<b>Inlet Connection</b> 0: No inlet connection 1: CGA 580 Inert Gas 3: CGA 540 Oxygen 4: CGA 346 Air 5: CGA 590 Industrial Air A: CGA 680 Inert Gas B: CGA 347 Air <i>Foreign inlets available upon request.</i>		<b>Assembly</b> 0: 3,000 PSIG/110 VAC External Pilot* 1: 3,000 PSIG/220 VAC External Pilot* 2: 3,000 PSIG/110 VAC Internal Pilot 3: 3,000 PSIG/220 VAC Internal Pilot 4: 4,500 PSIG/110 VAC External Pilot* 5: 4,500 PSIG/220 VAC External Pilot* 6: 3,000 PSIG/110 VAC Internal Pilot, NEMA 4 7: 3,000 PSIG/220 VAC Internal Pilot, NEMA 4 <i>*Regulator for external source not included</i>	<b>Left Bank Inlet Connection</b> 1: 1/2" FPT Port* 2: Single 72" Pigtail† 3: Master Valve with Single 72" Pigtail† 4: MicroManifold with 72" Pigtails‡ 5: Master Valve with MicroManifold and 72" Pigtails‡ 6: 628 Manifold with 36" Pigtails‡‡  <i>*Valid with F=0 Only †PTFE Core Pigtails ‡Not valid with 4,500 PSIG Max Inlet</i>	<b>Left Bank Number of Stations</b> 0: 1/2" FPT Port 1: One Station 2: Two Stations 3: Three Stations 4: Four Stations 5: Five Stations 6: Six Stations 7: Seven Stations 8: Eight Stations	<b>Right Bank Inlet Connection</b> 1: 1/2" FPT Port* 2: Single 72" Pigtail† 3: Master Valve with Single 72" Pigtail† 4: MicroManifold with 72" Pigtails‡ 5: Master Valve with MicroManifold and 72" Pigtails‡ 6: 628 Manifold with 36" Pigtails‡‡  <i>*Valid with H=0 Only †PTFE Core Pigtails ‡Not valid with 4,500 PSIG Max Inlet</i>	<b>Right Bank Number of Stations</b> 0: 1/2" FPT Port 1: One Station 2: Two Stations 3: Three Stations 4: Four Stations 5: Five Stations 6: Six Stations 7: Seven Stations 8: Eight Stations

## Related Options

Option	Order No.	Description
Remote Alarm	Advantium Series 629 Series	Provides audible and visual notification of a depleted supply bank to a remote location
Vent Manifold Kit	830-7439	Wall-mounted manifold designed to equalize liquid cylinder head pressure.
Floor Stand	830-7437	AutoSwitch floor stand
Manifold Floor Stand		Simple manifold floor stand provides support for up to two consecutive manifold extensions.