



## 641 Series IntelliSwitch™

The fully-automatic 641 Series 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 the simple push of a button. Proprietary software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return. It is these features which make the 641 Series 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



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**EXTENDED**  
WARRANTY

On This CONCOA Product

### Applications

#### Assist Gas Delivery from Liquid

##### Cylinder Supply

Nitrogen  
Oxygen

#### Assist Gas Delivery from High

##### Pressure Supply

Air  
Nitrogen  
Oxygen

#### Assist Gas Delivery from Micro-Bulk

##### or Bulk Supply

Nitrogen  
Oxygen

#### Laser Welding Shielding Gases

Argon  
Carbon Dioxide  
Helium

### Materials

#### Bodies

Brass barstock

#### Seats

PCTFE or Viton®

#### Seals

Viton®, Neoprene, and PTFE

#### Enclosure

Powder Coated Steel

### Specifications

#### Power Requirements

110 or 220 VAC

#### Maximum Inlet Pressure

3,000 PSIG (210 BAR) or  
4,500 PSIG (310 BAR)

#### Temperature Range

0 to 140°F (-18° to 60°C)

#### Filter

40-micron

#### Connections

½" FPT inlet and outlet  
⅛" FPT (external pilot inlet)

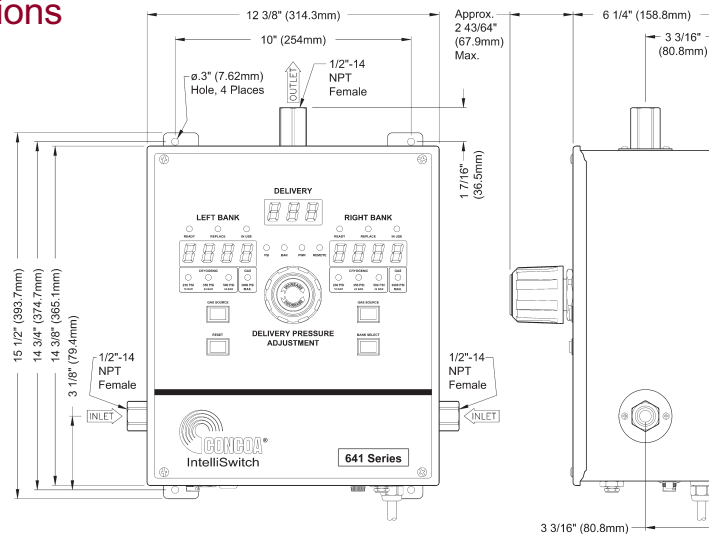
#### Cv

2.0 (3,000 PSIG max)  
1.0 (4,500 PSIG max)

#### Weight

67 lbs. (30.4 kg)

## Installation Dimensions



## Ordering Information

641-	A	B	0	D	E	F	G	H
Series 641	Delivery Pressure	Inlet Connection		Assembly	Left Bank Inlet Connection	Left Bank Number of Stations	Right Bank Inlet Connection	Right Bank Number of Stations
	3: 100 PSIG	0: No Inlet Connection		0: 3000 PSIG/110 VAC External Pilot*	1: 1/2" FPT Port*	0: 1/2" FPT Port	1: 1/2" FPT Port*	0: 1/2" FPT Port
	4: 200 PSIG	1: CGA 580 Inert Gas		1: 3000 PSIG/220 VAC External Pilot*	2: Single 72" Pigtail†	1: 1 Station	2: Single 72" Pigtail†	1: 1 Station
	5: 400 PSIG	3: CGA 540 Oxygen		2: 3,000 PSIG/110 VAC Internal Pilot	3: Master Valve with Single 72" Pigtail†	2: Two Stations	3: Master Valve with Single 72" Pigtail†	2: Two Stations
		4: CGA 346 Air		3: 3,000 PSIG/220 VAC Internal Pilot	4: MicroManifold with 72" Pigtails†	3: Three Stations	4: MicroManifold with 72" Pigtails†	3: Three Stations
		5: CGA 590 Industrial Air		4: 4,500 PSIG/110 VAC External Pilot*	5: Master Valve with MicroManifold and 72" Pigtails†	4: Four Stations	5: Master Valve with MicroManifold and 72" Pigtails†	4: Four Stations
		A: CGA 680 Inert Gas		5: 4,500 PSIG/220 VAC External Pilot*	6: 628 Manifold with 36" Pigtails†‡	5: Five Stations	6: 628 Manifold with 36" Pigtails†‡	5: Five Stations
		B: CGA 347 Air				6: Six Stations		6: Six Stations
		Foreign inlets available upon request.		*Regulator for external source not included	*Valid with F=0 Only	7: Seven Stations	*Valid with H=0 Only	7: Seven Stations
					†PTFE Core Pigtails	8: Eight Stations	†Not valid with 4,500 PSIG Max Inlet	8: Eight Stations
					‡Not valid with 4,500 PSIG Max Inlet			

## Related Options

Option	Order Number	Description
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	830-7439	Support AutoSwitch Enclosure
Manifold Floor Stand	830-7437	Supports 2 standard length (12") manifold extensions installed consecutively