

Gas Switchover Systems



640 Series IntelliSwitch™



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 cylinder or high pressure cylinder sources that enables the end user to select 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 choice for process and metal fabrication industries.

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

Primary Steel Industry

Argon
Nitrogen
Oxygen

Metal Fabrication

Argon
Carbon Dioxide
Nitrogen
Oxygen

Chemical and Refining Industry

Nitrogen
Oxygen

Defense and Aerospace

Argon
Carbon Dioxide
Nitrogen
Helium

Materials

Bodies

Brass barstock

Seats

PTCFE

Seals

PTFE and Neoprene

Enclosure

Powder Coated Steel

Specifications

Power Requirements

110 or 220 VAC

Maximum Inlet Pressure

3,000 PSIG (210 BAR)

Temperature Range

0 to 140°F (-18° to 60°C)

Flow Capacity

Cv = 1.0

Filter

40-Micron

Inlet Connection

½" FPT

Outlet Connection

½" FPT

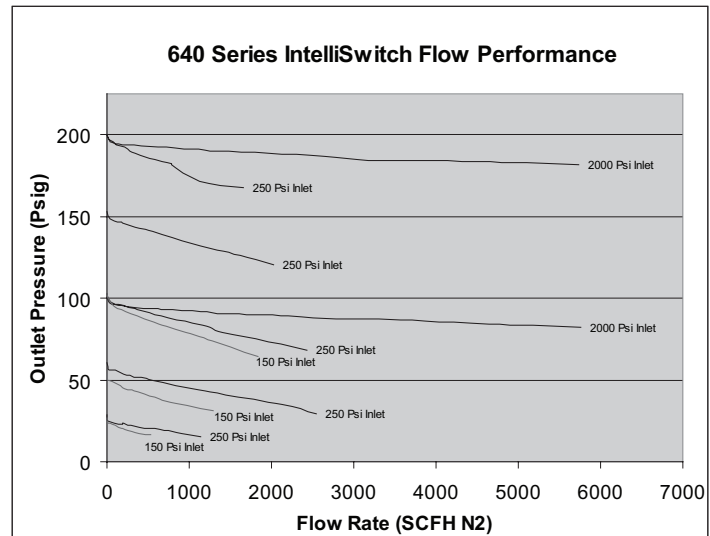
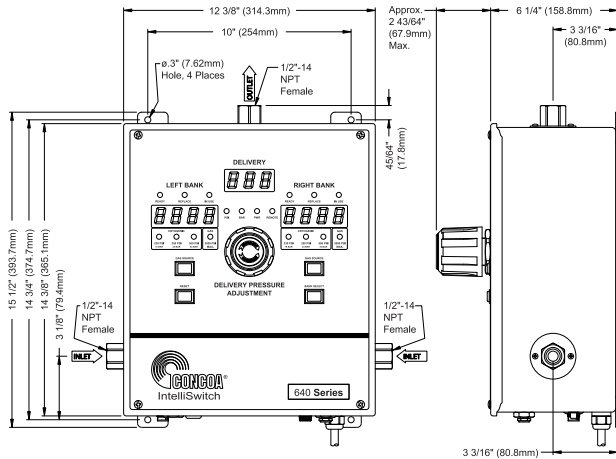
Weight

67 lbs. (30.4 kg)

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Installation Dimensions for the IntelliSwitch™ 640 Series



Switchovers

Ordering Information

Series	A Delivery Pressure	B Inlet Connection	C Pressure Settings	D Assembly	E Left Bank Inlet connection	F Left Bank No. of Stations	G Right Bank Inlet Connection	H Right Bank No. of Stations	
640		0: No Inlet Connection	0: Factory Default	0: 110 VAC External Pilot*		0: 1/2" FPT Port		0: 1/2" FPT Port	
		1: CGA 580 Inert Gas		1: 220 VAC External Pilot*	1: 1/2" FPT Port*	1: One Station	1: 1/2" FPT Port*	1: One Station	
		2: 0-50 PSIG (100 PSIG*)	2: CGA 320 CO ₂	2: 110 VAC Internal Pilot	2: Single 72" Pigtail†	2: Two Stations	2: Single 72" Pigtail†	2: Two Stations	
		3: 0-100 PSIG (135 PSIG*)	3: CGA 540 Oxygen	3: 220 VAC Internal Pilot	3: Master Valve with Single 72" Pigtail†	3: Three Stations	3: Master Valve with Single 72" Pigtail†	3: Three Stations	
		4: 0-150 PSIG (200 PSIG*)	4: CGA 346 Air		4: MicroManifold with 72" Pigtails†	4: Four Stations	4: MicroManifold with 72" Pigtails†	4: Four Stations	
		5: 200 PSIG (250 PSIG*)	5: CGA 590 Industrial Air		5: Master Valve with MicroManifold and 72" Pigtails†	5: Five Stations	5: Master Valve with MicroManifold and 72" Pigtails†	5: Five Stations	
		*Preset Switching Point	6: Din6 (Inert, He & CO ₂)		6: 110 VAC Internal Pilot NEMA4	6: 628 Manifold with 36" Pigtails†	6: Six Stations	6: 628 Manifold with 36" Pigtails†	6: Six Stations
			7: Din9 (Oxygen)		7: 220 VAC Internal Pilot NEMA4	* Valid with F=0 Only † PTFE Core Pigtails	7: Seven Stations	* Valid with H=0 Only † PTFE Core Pigtails	7: Seven Stations
			9: BS3 (Air, Argon, He & O ₂)		* Regulator for external source not included		8: Eight Stations		8: Eight Stations

Related Options

Option	Order Number	Description
Remote Alarm	Advantium Series	Provides audible and visual notification of a depleted supply bank to a remote location (See page 45)
Vent Manifold kit	629 Series	Wall-mounted manifold designed to equalized liquid cylinder head pressure (See Page 34)

Choose one option from each column