

# GAS SWITCHOVER SYSTEMS



## 640 SERIES INTELLISWITCH™

The fully-automatic IntelliSwitch gas switchover offers continuous pressure and flow control from liquid cylinder or high-pressure cylinder sources which enables the operator 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.



### 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

### Applications

#### Primary Steel Industry

Argon, Nitrogen, and Oxygen

#### Metal Fabrication

Argon, Carbon Dioxide, Nitrogen, and Oxygen

#### Chemical and Refining Industry

Nitrogen and Oxygen

#### Defense and Aerospace

Air, Argon, Carbon Dioxide, Nitrogen, or Helium

### Materials

#### Regulator and Valve Bodies

Brass barstock

#### Valve Seats

PCTFE

#### Seals

PTFE, PCTFE, and Neoprene

#### Enclosure

Powder-coated steel

#### Hose Core

PTFE

#### Hose Fittings

Brass

#### Hose Casing

Stainless steel braid

### Specifications

#### Maximum Inlet Pressure

3,000 PSIG (210 BAR)

#### Temperature Range

0 to 100°F (-18° to 40°C)

#### Filter

40-Micron

#### Mechanical Connections

½" FNPT inlet and outlet

#### Weight

67 lbs. (30.4 kg)

#### Cv

1.0

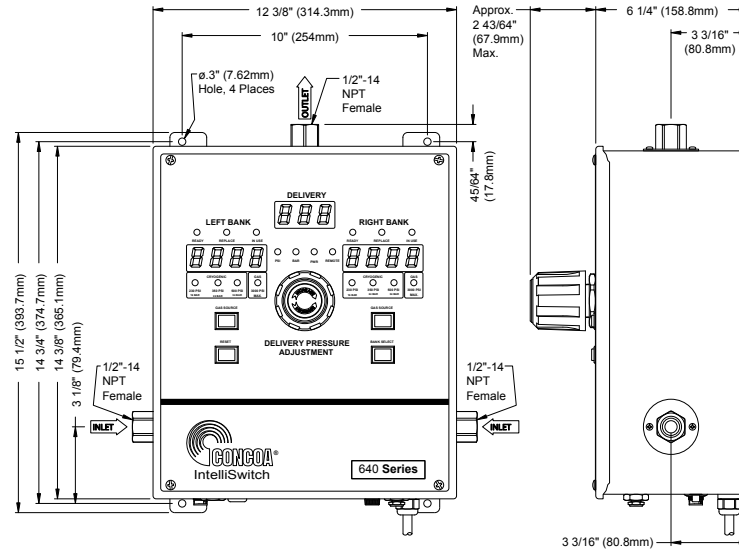
#### Power Requirements

110 or 220 VAC

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## Installation Dimensions



DISTRIBUTION SYSTEMS

## Ordering Information

Series	Outlet Pressure	Hose Cylinder Connection	Pressure Settings	Assembly	-Left Bank Inlet Connection	Left Bank No. of Stations	Right Bank Inlet Connection	Right Bank No. of Stations
640	2: 0-50 PSIG (0-3 BAR)	0: No Inlet Connection	0: Factory Default	0: 110 VAC External Pilot*	1: 1/2" FNPT Port*	0: 1/2" FNPT Port	1: 1/2" FNPT Port*	0: 1/2" FNPT Port
	3: 0-100 PSIG (0-7 BAR)	1: CGA 580 (Inert Gas)		1: 220 VAC External Pilot*	2: Single 72" Hose	1: One Station	2: Single 72" Hose	1: One Station
	4: 0-150 PSIG (0-10 BAR)	2: CGA 320 (Carbon Dioxide)		2: 110 VAC Internal Pilot	3: Master Valve with Single 72" Hose	2: Two Stations	3: Master Valve with Single 72" Hose	2: Two Stations
	5: 200 PSIG (0-15 BAR)	3: CGA 540 (Oxygen)		3: 220 VAC Internal Pilot	4: MicroManifold with 72" Hoses	3: Three Stations	4: MicroManifold with 72" Hoses	3: Three Stations
		4: CGA 346 (Air)			5: Master Valve with MicroManifold and 72" Hoses	4: Four Stations	5: Master Valve with MicroManifold and 72" Hoses	4: Four Stations
		5: CGA 590 (Industrial Air)			6: 628 Manifold with 36" Hoses	5: Five Stations	6: 628 Manifold with 36" Hoses	5: Five Stations
		6: DIN 6 (Inert, Helium & Carbon Dioxide)				6: Six Stations		6: Six Stations
		7: DIN 9 (Oxygen)				7: Seven Stations		7: Seven Stations
		9: BS3 (Air, Argon, Helium & Oxygen)				8: Eight Stations		8: Eight Stations
		A: BS 8 (Carbon Dioxide)						
		C: No Inlet Connection with Tethered Hose		* Regulator for external source not included	* Valid with Left Bank No. of Stations = 0 Only		* Valid with Right Bank No. of Stations = 0 Only	

## Related Options

Part Number	Option	Description
575 0025-01-000	Altos 2 Alarm	Provides real-time cylinder pressure, audible and visual notification of a depleted supply bank to a remote location. (See page 46 for full list of options)
629 Series	Vent Manifold Kit	Wall-mounted manifold designed to equalize liquid cylinder head pressure (See Page 38)