

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

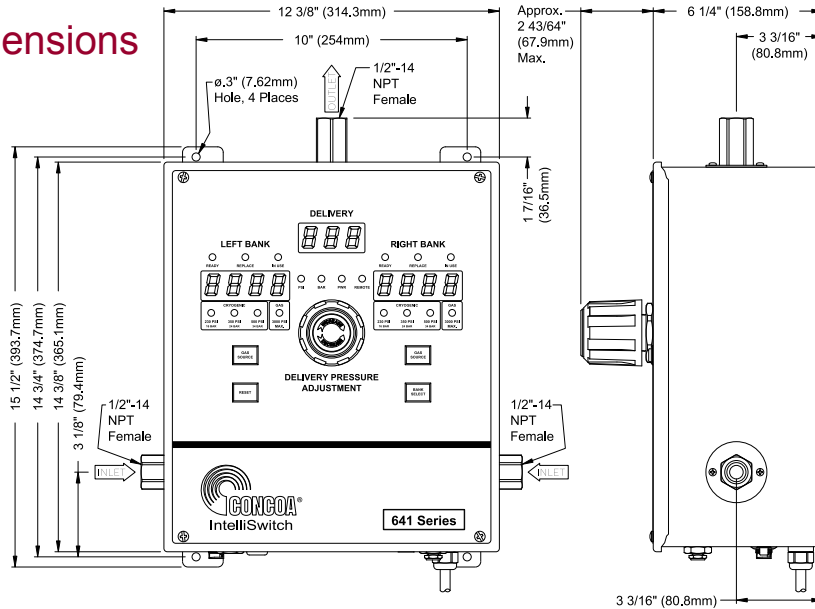
LOW LOSS TECHNOLOGY Reduces residual return

ELECTRONIC ECONOMIZER Eliminates liquid cylinder vent loss

6415002-01-1010 shown

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

Installation Dimensions



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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 ₂)		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