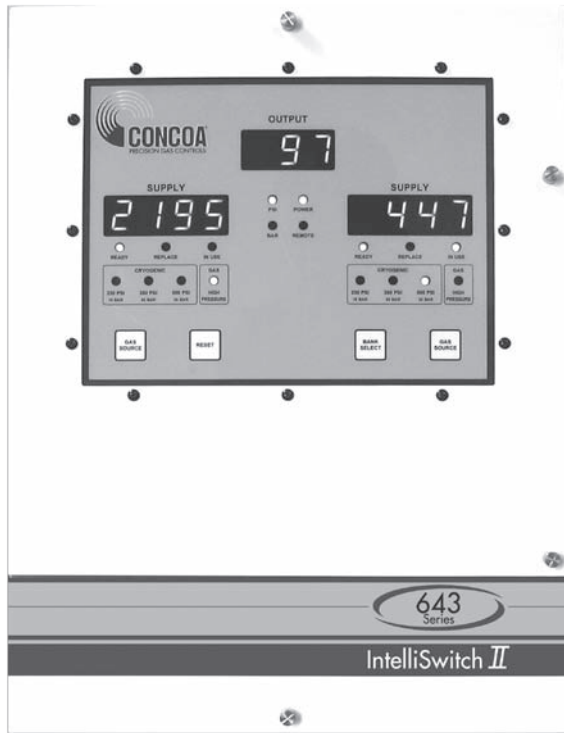


643 SERIES

Assist Gas Supply

643 SERIES INTELLISWITCH



The Web-based IntelliSwitch II™ Gas Switchover is CONCOA's solution for integrated gas management systems. IntelliSwitch II offers continuous pressure and flow control from liquid or high-pressure cylinder sources, selectable by a simple push of a button or remotely via CONCOA's proprietary I-LINK™ communication. On-board software enables remote diagnostics and real time process control. CONCOA's proven software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return, which makes the IntelliSwitch II the right choice for process and metal fabrication industries.

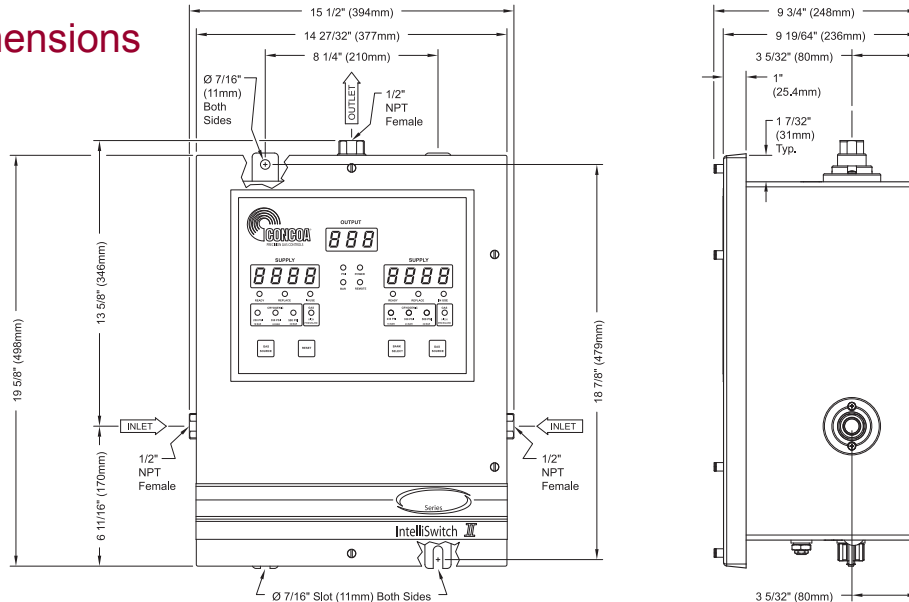
Advanced Features

- INTEGRAL WEB SERVER** Enables remote access
- INTEGRATED ETHERNET CONNECTIVITY** Seamless network integration
- INTEGRAL EMAIL NOTIFICATION** 24/7 system monitoring
- LOW LOSS TECHNOLOGY** Reduces residual return
- ELECTRONIC ECONOMIZER** Eliminates liquid cylinder vent loss
- NEMA-4 ENCLOSURE** Flexible installation
- INTERNAL BALANCE STEM LINE REGULATOR** Ensures total process control

6435007-01-1010 shown

Applications	Materials	Specifications
Primary Steel Industry Argon Nitrogen Oxygen	Regulator and Valve Bodies Brass barstock	Power Requirements 90-269 VAC (CE marked)
Metal Fabrication Argon Carbon Dioxide Nitrogen Oxygen	Valve Seats Neoprene and Viton®	Filter 40-micron
Chemical and Refining Industry Nitrogen Oxygen	Seals PTFE and Viton	Maximum Inlet Pressure 3000 PSIG (210 BAR)
Defense and Aerospace Argon Carbon Dioxide Nitrogen Helium	Enclosure (NEMA-4) Powder-coated steel	Temperature Range 0°F to 100°F (18°C to -38°C)
	Flexible Hoses Stainless steel braided, PTFE-lined	Mechanical Connections ½" FPT inlet and outlet
		Cv 1.0
		Weight 67 lbs (30.4 kg)

Installation Dimensions



Assist Gas Supply

Ordering Information

643	A	B	C	D	E	F	G	H
Series 643	Delivery Pressure	Inlet Connection	Switchover Pressure Settings	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	0: Factory default	7: 3000 PSIG (210 BAR)	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)	1: 100 PSIG (7 BAR)		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)	2: 150 PSIG (10 BAR)		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)	3: 200 PSIG (14 BAR)		4: MicroManifold with 72" (1800mm) hose	3: Three stations	4: MicroManifold with 72" (1800mm) hose†	3: Three stations
		4: CGA 346 (Air)	4: 250 PSIG (17 BAR)		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)	5: 300 PSIG (21 BAR)		6: 628 manifold with 36" (900mm) hose	5: Five stations	6: 628 manifold with 36" (900mm) hose	5: Five stations
		6: DIN 477 #6 (Inert & CO ₂)	6: 350 PSIG (24 BAR)		*Valid with F=0 only	6: Six stations	*Valid with H=0 Only	6: Six stations
		7: DIN 477 #9 (Oxygen)	7: 400 PSIG (28 BAR)			7: Seven stations		7: Seven stations
		8: DIN 477 #10 (Nitrogen)	8: 425 PSIG (30 BAR)			8: Eight Stations		8: Eight Stations
		9: BS 341 #3 (Air, Inert)						
		A: BS 341 #3 (CO ₂)						
		C: TH0 - No inlet connection with tethered hose						