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

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

Regulator and Valve Bodies
Brass barstock

Valve Seats
Neoprene and Viton®

Seals
PTFE and Viton

Enclosure (NEMA-4)
Powder-coated steel

Flexible Hoses
Stainless steel braided, PTFE-lined

Specifications

Power Requirements
90-269 VAC (CE marked)

Filter
40-micron

Maximum Inlet Pressure
3000 PSIG (210 BAR)

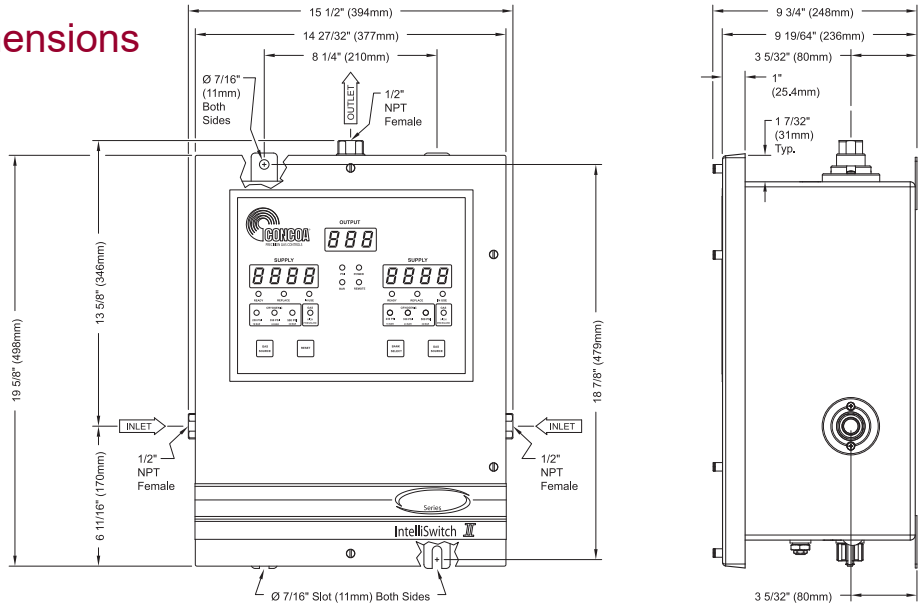
Temperature Range
0°F to 100°F (18°C to -38°C)

Mechanical Connections
½" FPT inlet and outlet

Cv
1.0

Weight
67 lbs (30.4 kg)

Installation Dimensions



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: ½" FPT port*	0: No hose	1: ½" 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						