

500 Series Distribution Systems

539 Series IntelliSwitch™

The IntelliSwitch™ electronic switchover is CONCOA's next generation of gas management systems. The IntelliSwitch™ provides continuous gas supply from liquid cylinders, high pressure cylinders, or a combination of the two allowing the enduser to select the most economical mode of gas supply by the touch of a button. Microprocessor control lowers yearly gas cost by eliminating liquid cylinder vent loss and excess residual return, which makes the IntelliSwitch™ the perfect choice for laboratory, pilot plant, or process applications.

Advanced Features

- Microprocessor Control
 Fully automatic priority assignment
- Field Adjustable Parameters
 Enables process flexibility
- On-Site Source Selection
 Liquid cylinder or high-pressure service
- Low Loss Technology
 Reduces residual return
- Electronic Economizer
 Eliminates vent loss from 230, 350 or 500 PSIG liquid cylinders



- Process Gas or Air Actuated Pilot Valves Simple installation
- RS 232 or RS 485 Communications
 Provides remote monitoring of supply
- NEMA 12 Enclosure NEMA 4 Option

539-3002 shown

Ask About Our



On This CONCOA Product

Low Loss Principle

The Low Loss Principle consists of two features: the Look-Back and the Economizer. When the IntelliSwitch™ electronics sense that the primary bank pressure is low, it automatically switches to the reserve bank. After a period of time, the system looks back at the depleted source to sense if it has rebuilt pressure. If it has, the system switches back and continues to draw product from this source, eliminating false switchovers and reducing residual return.

The Electronic Economizer has selectable settings for 230, 350 & 500 PSIG liquid cylinders. The IntelliSwitch™ continuously monitors the pressure in the reserve bank. When the pressure goes above the Economizer setting, the IntelliSwitch™ will draw gas from the headspace of the reserve bank, preventing vent losses.

Materials

Regulator and Valve Bodies
Brass barstock

Valve Stems 316L stainless steel

Valve Seats PCTFE

Seals

PTFE, PCTFE and Viton®

Enclosure NEMA 12/Optional NEMA 4
Powder-coated steel

Specifications

Power Requirements 110 or 220 VAC

Maximum Inlet Pressure 3,000 PSIG (210 BAR)

Temperature Range 0°F to 140°F (-18°C to 60°C)

Flow Capacity Cv = 1.0

Filter

40-micron

Inlet Connection
1/2" FPT

Outlet Connection
1/2" FPT

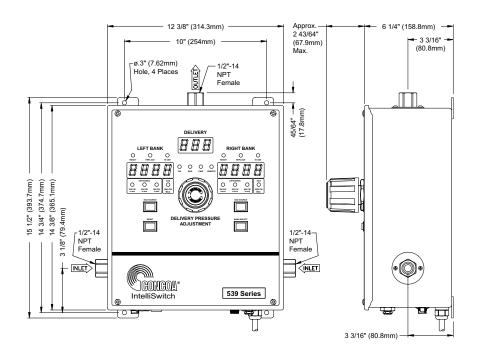
Weight

67 lbs. (30.4 kg)

500 Series Distribution Systems



Installation Dimensions



Ordering Information

539	Α	В	С	D	-X	-CON
Series 539	Outlet Pressure	Right Side Connection	Left Side Connection	Assembly	Assembly	Pigtail
	2: 0-50 PSIG	0: ½" FPT	0: ½" FPT	0: 110 VAC External Pilot	-01: Standard	Please specify
	3: 0-100 PSIG	1: Diaphragm Valve with 36" stainless flexible pigtail	1: Diaphragm Valve with 36" stainless flexible pigtail	1: 220 VAC External Pilot	-0A: Tamper Resistant	inlet connection (if applicable)
	4: 0-150 PSIG	2: Diaphragm Valve with 72" stainless flexible pigtail	2: Diaphragm Valve with 72" stainless flexible pigtail	2: 110 VAC Internal Pilot		CGA DIN 477 BS 341 and others available.
	5: 0-200 PSIG	3: Manifold Connector*	3: Manifold Connector*	3: 220 VAC Internal Pilot		

^{*} See pages 32 and 33 for manifold ordering information

Options

Option	Order Number	Description
Remote Alarm	Advantium Series	Provides audible and visible notification of a depleted supply bank to a remote location (See pgs. 44-45)
Vent Manifold Kit	629 Series	Wall-mounted manifold designed to equalize liquid cylinder head pressure.
Switchover Station	518-1625	Safely mount and secure any switchover and 2 cylinder
AutoSwitch Floor Stand	830-7439	Support AutoSwitch Enclosure
Manifold Floor Stand	830-7437	Supports 2 standard length (12") manifold extensions installed consecutively
ADI 9501	9906-9501	3000 PSI IntelliSwitch installation manual