



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 end-user 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



539-3002 shown

- *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*

Ask About Our

EXTENDED
WARRANTY

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
½" FPT

Outlet Connection
½" FPT

Weight
67 lbs. (30.4 kg)

