

# GAS SWITCHOVER SYSTEMS



## 635 Series AutoSwitch HF



The 635 Series pressure differential switchover assures an uninterrupted supply of process gas from the primary and reserve banks. The ultra high flow system maintains a constant delivery pressure via the integral line regulator. The 635 has ½" F-NPT ports to ensure maximum flow capacity. The non-electric design makes the 635 a good value for industrial applications.

### Advanced Features

- **High Pressure Primary & Reserve Cylinders**
- **Automatic Pressure Differential**
- **Balanced Main Valve**  
High flow capacity
- **Integral Line Regulator**  
Stable line pressure during changeover
- **Variable Line Pressure**  
Line pressure changeable on site
- **User-Friendly Priority Valve**  
One knob switches cylinder priority
- **Integral Manifold System**  
Easy installation

### Applications

#### Ceramic Polishing

Uninterrupted supply of hydrogen

#### Annealing

Large capacity flow for nitrogen, hydrogen, and mixtures

#### Fuel Gases

Safely supply fuel gases for cutting, heating or welding with OSHA regulation-compliant manifold systems

### Materials

#### Priority Valve and Line Regulator

Brass barstock

#### Diaphragms

Fabric-reinforced neoprene

#### Enclosure

Acrylic powder-coated steel

#### Tubing and Fittings

316 stainless steel, brass, and copper

#### Internal Seals

PTFE Teflon®

#### Seats

Neoprene, PTFE Teflon® and Viton®

#### Pressure Gauges and Switches

Brass, bronze and stainless steel

#### Check Valves

Brass with Viton® seals

### Specifications

#### Maximum Inlet Pressure

3000 PSIG (210 BAR)

#### Temperature Range

-40 to 140°F (-40 to 60°C)

#### Maximum Flow

6000 SCFH (2830 lpm)

#### Inlet Connection (Enclosure)

½" FPT

#### Outlet Connection

½" FPT

#### Weight

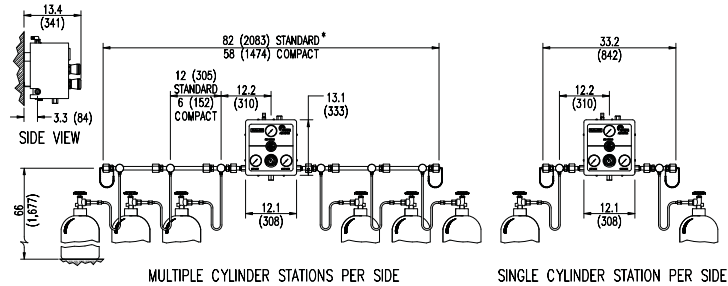
54 lbs. (25 kg)

*See page 18 for manifold specifications*

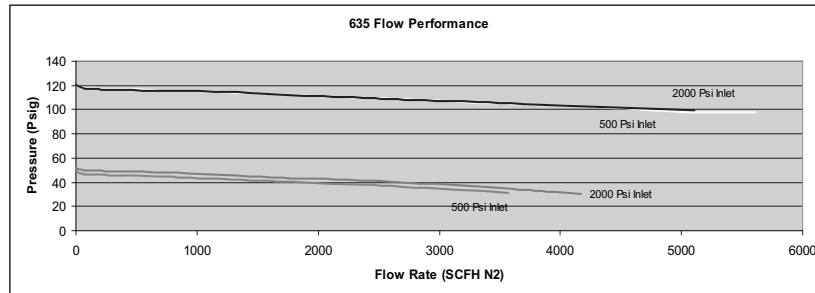
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**CONCOA**  
PRECISION GAS CONTROLS

## Mounting and Dimensional Information for the 635 Series AutoSwitch



\* FOR ASSEMBLIES WITH STANDARD STATION SPACING, ADD OR SUBTRACT 12" (305 mm) FOR EACH CYLINDER STATION ADDED TO OR SUBTRACTED FROM THE TYPICAL 3 CYLINDERS PER SIDE ASSEMBLY SHOWN.  
\* FOR ASSEMBLIES WITH COMPACT STATION SPACING, ADD OR SUBTRACT 6" (153 mm) FOR EACH CYLINDER STATION ADDED TO OR SUBTRACTED FROM THE TYPICAL 3 CYLINDERS PER SIDE ASSEMBLY SHOWN.



## Ordering Information

	A	B	C	D	E	F
Series	Outlet Pressure	Manifold Style	Pigtail Style	Stations/side	-CGA	Options
635		0: 1/2" FPT (C and D must = 0)		0: No Kits, No Pigtails (C and D must = 0)	Please specify inlet connection (if applicable)	H: 120V Heater
	1: 0-15 PSIG	1: Standard Length (12" between stations) with One Cylinder/Station)		1: One Station	PTFE-lined pigtails for oxygen service include accumulator extensions to prevent ignition from adiabatic compression.	C: Foreign Inlets CO <sub>2</sub> & Inert
	2: 0-40 PSIG		2: 24" Rigid Copper	2: Two Stations	Not for use with Helium or Hydrogen.	R: Foreign Inlets Ar, H <sub>2</sub> , O <sub>2</sub> , O <sub>2</sub> Mix
	3: 0-120 PSIG	3: Standard Length (12" between stations) with Two Cylinders/Station	3: 72" Flexible Stainless Steel Armor Case with Stainless Steel Core	3: Three Stations		
		4: Compact Length (6" between stations) with One Cylinder/Station	4: 24" Flexible Stainless Steel braided with PTFE lining	4: Four Stations		
			5: 36" Flexible Stainless Steel Armor Case with Stainless Steel Core	5: Five Stations		
		6: Compact Length (6" between stations) with Two Cylinders/Station	6: 36" Flexible Stainless Steel braided with PTFE lining	6: Six Stations		
			7: 24" Flexible Stainless Steel Armor Case with Stainless Steel Core	7: Seven Stations		
				8: Eight Stations		
			9: 72" Flexible Stainless Steel-braided with PTFE lining	9: Nine Stations		

## Related Options

Option	Order Number	Description
Manifold Floor Stand	830-7437	Supports 2 standard length (12") manifold extensions installed consecutively
AutoSwitch Floor Stand	830-7439	Supports AutoSwitch enclosure

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