



# 500 Series Distribution Systems

## 522 Series AutoSwitch

The 522 Series AutoSwitch is a continuous gas delivery system for high purity gas service, typically in the laboratory or process plant, that automatically changes cylinder or bank priority from the primary source to a reserve supply without transmitting pressure fluctuations to the use line. Optional internal pressure switches, warning lights, and separate remote alarm indicate low bank pressure and the need to change depleted cylinders.

### Advanced Features

- *400 Series Brass System Components Capsule® seat*
- *Metal to metal seals*  
No possibility of gas contamination
- *Integral Line Regulator*  
Stable line pressure during change over
- *Variable Line Pressure*  
Line pressure changeable on site
- *User-Friendly Priority Valve*  
One knob switches cylinder priority
- *Integral Manifold System*  
Easy installation



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**EXTENDED**  
WARRANTY  
On This CONCOA Product

### Remote Alarm\*

Providing audible and visible notification of cylinder depletion, one Advantium 8 remote alarm can monitor and power up to four switchover stations.

#### Intrinsic Safety Barriers

Safe use with flammable gases or in hazardous areas (class 1, division 1, group A, B, C or D)

#### Relay Output

Easy integration with other alarm systems

#### Telephone Dialer\*

Notify multiple off-site locations of the need to change depleted cylinders

#### Computer Interface\*

Serial communication through RS-232 port

\* Optional

### Materials

*Priority Valve*  
Brass barstock

*Line Regulator*  
Brass barstock

*Diaphragms*  
316L stainless steel

*Enclosure*  
Acrylic powder-coated steel

*Tubing and Fittings*  
316 stainless steel

*Internal Seats and Seals*  
PTFE

*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°F to 140°F (-40°C to 60°C)

*Maximum Flow (100 PSIG)*  
600 scfh (283 lpm)

*Inlet Connection*  
½" FPT

*Outlet Connection*  
¼" stainless steel compression tube

*Helium Leak Integrity*  
1 x 10<sup>-8</sup> scc/sec

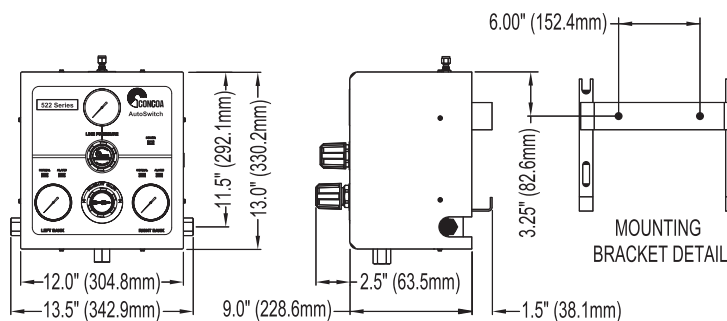
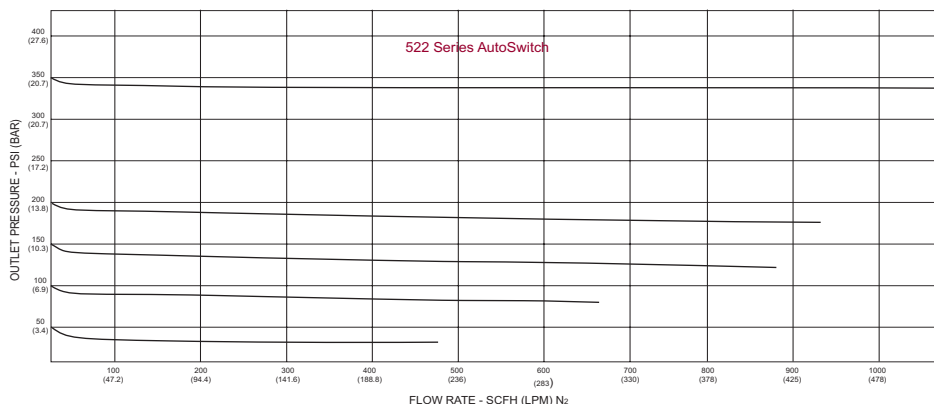
*Weight*  
40 lbs. (18 kg)

See page 32, 33 for manifold specifications

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## Flow Performance Curves



## Ordering Information

522	A	B	C	D	-CON	Options
<b>Series 522</b>	Outlet Pressure	Inlet Connection	Cylinders/Side	Assembly	Pigtail	
	2: 0-50 PSIG	0: ½" FPT	0: No Inlet Connection**	1: Without Alarm Capability	Please specify inlet connection (if applicable)	C: Compact Manifold (6" Spacer)
	3: 0-100 PSIG	1: Brass Manifolds (36" flexible pigtails at each station)	1: One Cylinder	4: With Alarm Capability* (Alarm Sold Separately)	CGA DIN 477 BS 341 and others available	
	4: 0-200 PSIG	3: Diaphragm Valves* (Two 36" stainless flexible pigtails)	2: Two Cylinders	*Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments.		
	5: 0-350 PSIG	4: Brass Manifolds (24" flexible pigtails at each station)	3: Three Cylinders			
	7: 0-150 PSIG	5: Chrome-Plated Brass Manifolds (36" flexible pigtails at each station)	4: Four Cylinders			
		6: ½" FPT with captured vent	5: Five Cylinders			
		7: Chrome-Plated Brass Manifolds (24" flexible pigtails at each station)	6: Six Cylinders			
		9: Diaphragm Valves * (Two 72" stainless steel pigtails)	7: Seven Cylinders			
		*One cylinder/side only	8: Eight Cylinders			
			9: Nine Cylinders			
			0: Ten Cylinders			
			A: Eleven Cylinders			
			B: Twelve Cylinders			
			C: Thirteen Cylinders			
			D: Fourteen Cylinders			
			E: Fifteen Cylinders			
			** If manifold option is selected in B, 0 = Ten Cylinders			