



# 500 Series Distribution Systems

## 523 Series AutoSwitch

The 523 Series AutoSwitch is a continuous gas delivery system for ultra-high purity or corrosive gas service, typically in the laboratory or process plant, that automatically changes cylinder or bank priority from primary source to a reserve supply without transmitting pressure fluctuations to the use line. Optional internal pressure switches, warning lights, and separate remote switches, warning lights, and separate remote alarm indicate low bank pressure and the need to change depleted cylinders.

### Advanced Features

- *400 Series 316L Stainless 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



523-3004 shown

Ask About Our

**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  
316L stainless steel barstock

Line Regulator  
316L stainless steel 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  
316 stainless steel

Check Valves  
316 stainless steel with Viton® seal

### 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

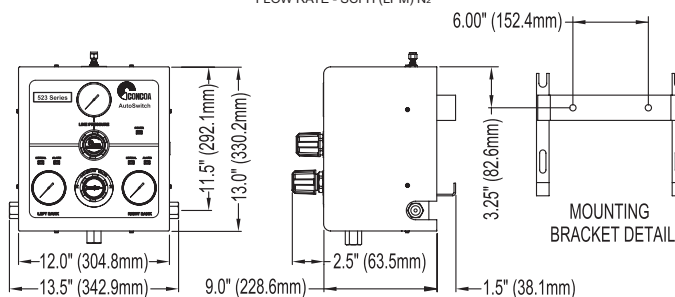
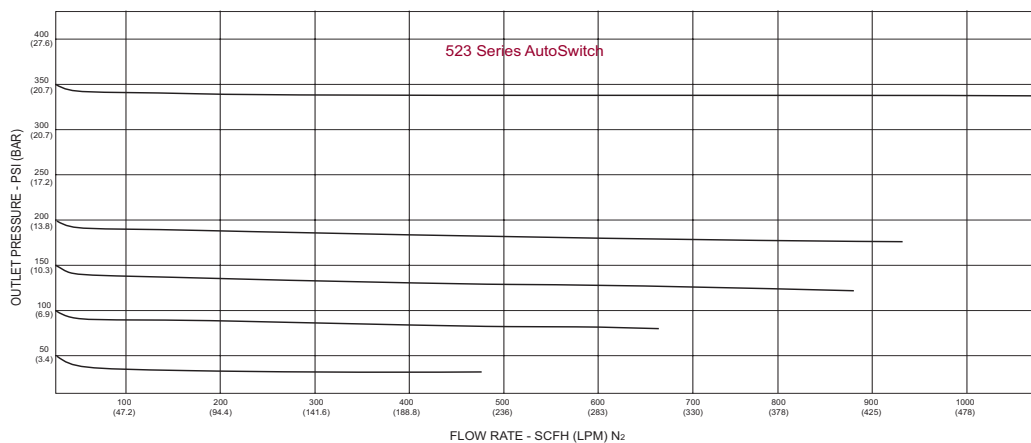
Weight  
40 lbs. (18 kg)

See page 32, 33 for manifold specifications

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## Flow Performance Curves



## Ordering Information

523	A	B	C	D	-CON	Options
<b>Series 523</b>	Outlet Pressure	Inlet Connection	Cylinders/Side	Assembly	Pigtail	
	2: 0-50 PSIG	0: 1/2" FPT for Non-Toxic Gases	0: No Inlet Connection**	1: Without Alarm Capability	Please specify inlet connection (if applicable)	C: Compact Manifold (6" Spacer)
	3: 0-100 PSIG	1: Stainless Steel Manifolds for Non-Toxic Gases (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 for Non-Toxic Gases* (Two 36" flexible pigtails)	2: Two Cylinders			
	5: 0-350 PSIG	4: Stainless Steel Manifolds for Non-Toxic Gases (24" flexible pigtails at each station)	3: Three Cylinders	*Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments.		
	7: 0-150 PSIG	5: Stainless Steel Manifolds for Toxic Gases† (36" flexible pigtails at each station)	4: Four Cylinders			
		6: 1/2" FPT with captured vent	5: Five Cylinders			
		7: Stainless Steel Manifolds for Toxic Gases† (24" flexible pigtails at each station)	6: Six Cylinders			
		8: Diaphragm Valves for Toxic Gases** (Two 36" flexible pigtails)	7: Seven Cylinders			
		9: Diaphragm Valves* (Two 72" stainless steel pigtails)	8: Eight Cylinders			
		*One cylinder/side only †Includes captured vent	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			