

# 523 Series AutoSwitch

CRN OH 5216.5C

*Automatic  
Switchover System*

*Optional Pressure  
Switches*

*316L Stainless Steel  
Components*

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 alarm indicate low bank pressure and the need to change depleted cylinders.



523-3004 shown

## 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

## 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*

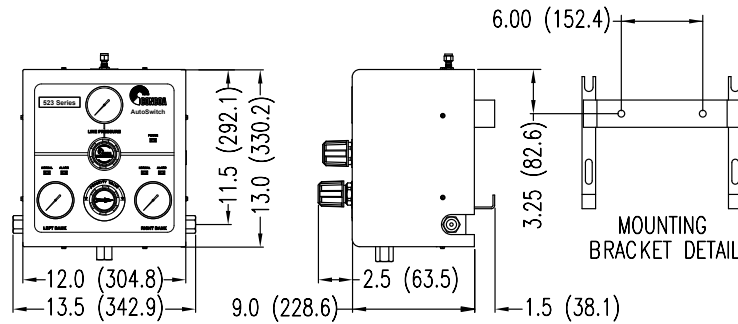
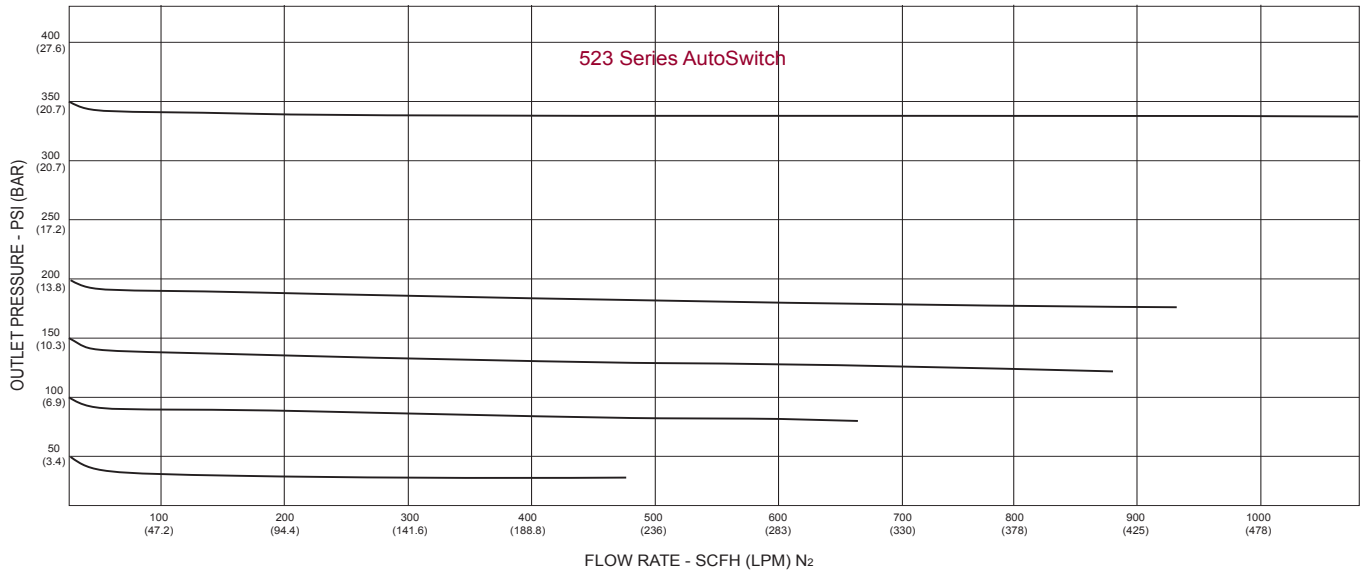
40 lbs. (18 kg)

See page 26 for manifold specifications

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# Flow Performance Curves



## Ordering Information *(For information about how to use this table please see page 4.)*

523	A	B	C	D	-CON	Options
<b>Series</b> 523	<b>Outlet Pressure</b> 2: 0-50 PSIG 3: 0-100 PSIG 4: 0-200 PSIG 5: 0-350 PSIG 7: 0-150 PSIG	<b>Inlet Connection</b> 0: ½" FPT for Non-Toxic Gases 1: Stainless Steel Manifolds for Non-Toxic Gases (36" flexible pigtails at each station) 3: Diaphragm Valves for Non-Toxic Gases* (Two 36" flexible pigtails) 4: Stainless Steel Manifolds for Non-Toxic Gases (24" flexible pigtails at each station) 5: Stainless Steel Manifolds for Toxic Gases† (36" flexible pigtails at each station) 6: ½" FPT with captured vent 7: Stainless Steel Manifolds for Toxic Gases† (24" flexible pigtails at each station) 8: Diaphragm Valves for Toxic Gases*† (Two 36" flexible pigtails) 9: Diaphragm Valves* (Two 72" stainless steel pigtails)  <i>*One cylinder/side only</i> <i>†Includes captured vent</i>	<b>Cylinders/Side</b> 0: No Inlet Connection* 1: One Cylinder 2: Two Cylinders 3: Three Cylinders 4: Four Cylinders 5: Five Cylinders 6: Six Cylinders 7: Seven Cylinders 8: Eight Cylinders 9: Nine Cylinders A: Eleven Cylinders B: Twelve Cylinders C: Thirteen Cylinders D: Fourteen Cylinders E: Fifteen Cylinders  <i>* If manifold option is selected in B, 0 = Ten Cylinders</i>	<b>Assembly</b> 1: Without Alarm Capability 4: With Alarm Capability* (Alarm Sold Separately)  <i>*Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments.</i>	<b>Pigtail</b> Please specify inlet connection (if applicable)  CGA DIN 477 BS 341 and others available	<b>Options</b> C: Compact Manifold (6" Spacer)
<b>Related Options</b>		<b>See Pages 24 and 25 for Alarm Options</b>				