

523 Series AutoSwitch

*Automatic
Switchover System*

Pressure Switches

*316L Stainless Steel
Components*



523-3004 shown

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. Internal pressure switches, warning lights, and 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

Remote Alarm

Providing audible and visible notification of cylinder depletion, a single remote alarm can monitor and power up to four 522 and/or 523 AutoSwitches.

Intrinsic Safety Barriers

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

Slave Alarms

Three additional alarms provide audible and visible alerts

Telephone Dialer

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

Computer Interface

Up to 12 channels of information available through analog and digital (RS-232) interfaces

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 (Enclosure)

½" FPT

Outlet Connection

¼" stainless steel compression tube

Helium Leak Integrity

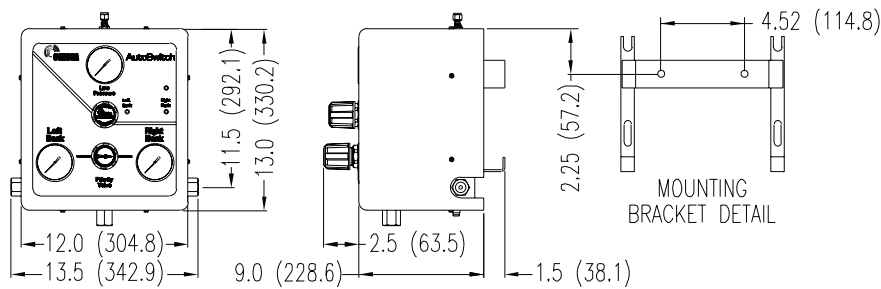
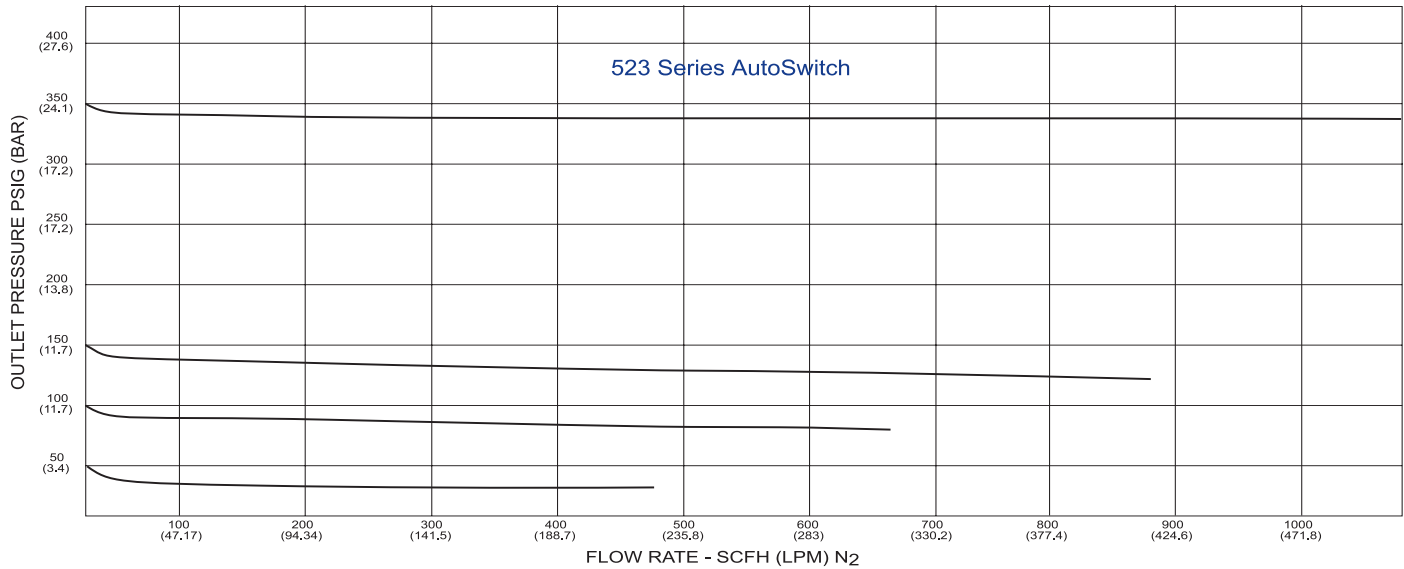
1 x 10⁻⁸ scc/sec

Weight

40 lbs. (18 kg)

See page 24 for manifold specifications

Flow Performance Curves



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

523-	A	B	C	D	-CON
Series 523	Outlet Pressure 2: 0-50 PSIG 3: 0-100 PSIG 4: 0-200 PSIG 5: 0-350 PSIG 7: 0-150 PSIG	Inlet Connection 0: ½" FPT for Non-Toxic Gases 1: Stainless Steel Manifolds for Non-Toxic Gases (36" flexible pigtailed at each station) 3: Diaphragm Valves for Non-Toxic Gases* (Two 36" flexible pigtailed) 4: Stainless Steel Manifolds for Non-Toxic Gases (24" flexible pigtailed at each station) 5: Stainless Steel Manifolds for Toxic Gases† (36" flexible pigtailed at each station) 6: 1/2" FPT with captured vent 7: Stainless Steel Manifolds for Toxic Gases† (24" flexible pigtailed at each station) 8: Diaphragm Valves for Toxic Gases*† (Two 36" flexible pigtailed) 9: Diaphragm Valves* (Two 72" stainless steel pigtailed) <i>*One cylinder/side only †Includes captured vent</i>	Cylinders/Side 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	Assembly 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>	Pigtail Please specify inlet connection (if applicable) CGA DIN 477 BS 341 and others available

Related Options

See Pages 22 and 23 for Alarm Options