

522 Series AutoSwitch

CRN OH 5216.5C

*Automatic
Switchover System*

*Optional Pressure
Switches*

Brass Components

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.



522-3004 shown

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

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 10⁻⁸ scc/sec

Weight

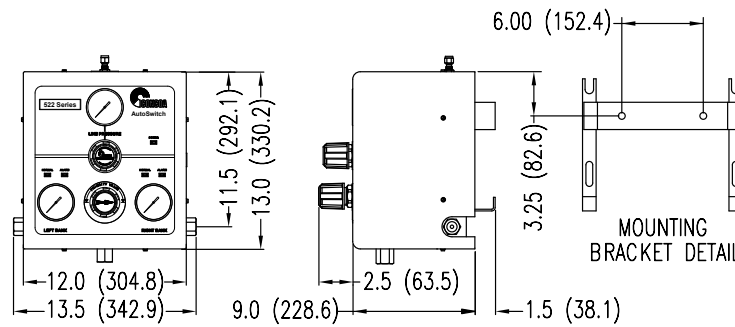
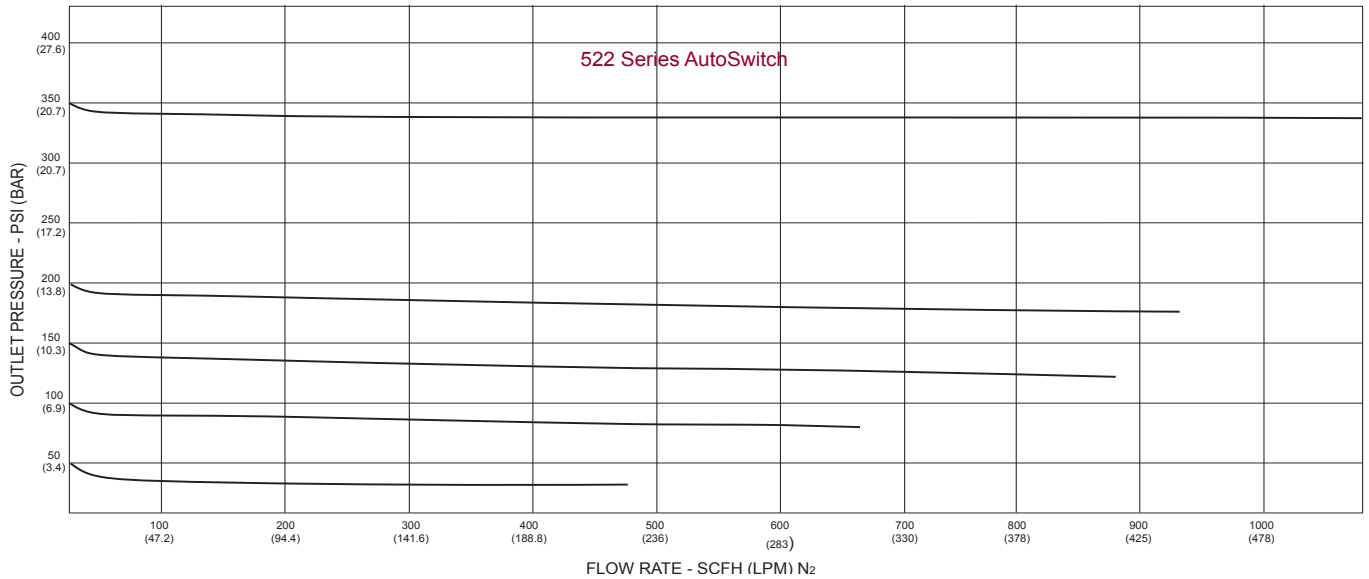
40 lbs. (18 kg)

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.)*

522	A	B	C	D	-CON	Options
Series 522	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 1: Brass Manifolds (36" flexible pigtails at each station) 3: Diaphragm Valves* (Two 36" stainless flexible pigtails) 4: Brass Manifolds (24" flexible pigtails at each station) 5: Chrome-Plated Brass Manifolds (36" flexible pigtails at each station) 6: ½" FPT with captured vent 7: Chrome-Plated Brass Manifolds (24" flexible pigtails at each station) 9: Diaphragm Valves* (Two 72" stainless steel pigtails) <i>*One cylinder/side only</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 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>	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	Options C: Compact Manifold (6" Spacer)
Related Options		See Pages 24 and 25 for Alarm Options				