

523 Series Automatic Switchover System with Stainless Steel Components



The 522 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 the 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 and Capsule[®] seat
- Metal to Metal seals eliminates the possibility of gas contamination
- Integral Line Regulator provides stable line pressure during change over
- Variable Line Pressure allows line pressure change on site
- User-Friendly Priority Valve allows one knob switch to switch cylinder priority
- Integral Manifold System allows for easy installation

Remote Alarm

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

- Intrinsic Safety Barriers allow for safe use with flammable gases or in hazardous areas (Class 1, division 1, groups A, B, C or D)
- Slave Alarm provides three additional alarms that provide audible and visible alerts
- Telephone Dialer notifies multiple off-site locations of the need to change depleted cylinders
- Computer Interface allows for up to 12 channels of information available through analog and digital (RS-232) interfaces

Materials of construction:

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

4170 A Main Pearland, TX 77581 PH: 281-648-1894 FAX: 281-648-1895

www.dcgpartnership.com

E-mail: sales@dcgpartnership.com

Chromatographic Reference Materials



523 Series Automatic Switchover with Stainless Steel Components (continued)

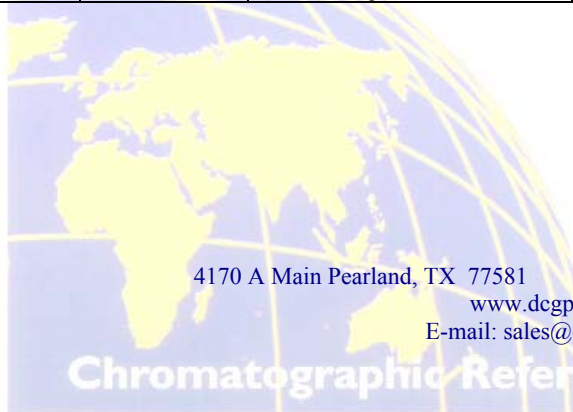
Pressure Gauges and Switches: 316 stainless steel
Check Valves: 316 stainless steel with Viton® seal

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. (18kg)

Ordering Information

| 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 Connections 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" stainless steel 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: ½" FPT with captured vent 7: Stainless Steel Manifolds for Toxic Gases† (24" flexible pigtailed at each station) 8: Diaphragm Valve for Toxic Gases*† (Two 36" flexible Pigtailed) 9: Diaphragm Valves* (Two 72" flexible pigtailed) *One cylinder/side only †Includes captured vent | 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 2: With Alarm Capability* *Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments | Pigtail Please specify Inlet connection (if applicable) CGA DIN 477 BS 341 and others available |



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Related Options

- 0-4000 BAR/PSI* with Pressure Switches † and 110V Remote Alarm
- 0-4000 BAR/PSI* with Pressure Switches † and 220V Remote Alarm
- 0-600 BAR/PSI Gauges with no alarm capability
- 0-600 BAR/PSI* with Pressure Switches † and 110V Remote Alarm
- 0-600 BAR/PSI* with Pressure Switches † and 220V Remote Alarm
- 0-4000 BAR/PSI* with Pressure Switches † and without Remote Alarm

* 0-6000 PSI gauges with 4500 PSIG max inlet option

† Intrinsic safety barriers for flammable gas service or for use in hazardous environments

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Viton® is a registered trademark of E. I. DuPont de Nemours & Co.

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