

## 522 Series Automatic Switchover System with 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. Internal pressure switches, warning lights, and remote alarm indicate low bank pressure and the need to change depleted cylinders.

### Advanced Features

- 400 Series Brass System Components and Capsule<sup>®</sup> 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 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: Brass barstock  
Line Regulator: Brass barstock  
Diaphragms: 316L stainless steel  
Enclosure: Acrylic powder-coated steel  
Tubing and Fittings: 316 stainless steel

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



### 522 Series Automatic Switchover with Brass Components (continued)

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 (Enclosure): ½" FPT

Outlet Connection: ¼" stainless steel compression tube

Helium leak integrity: 1 x 10<sup>-8</sup> scc/sec

Weight: 40 lbs. (18kg)

#### Ordering Information

522	A	B	C	D	-CON
Series 522	Outlet Pressure	Inlet Connections	Cylinders/Side	Assembly	Pigtail
	2: 0-50 PSIG 3: 0-100 PSIG 4: 0-200 PSIG 5: 0-350 PSIG 7: 0-150 PSIG	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)  *One cylinder/side only	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	1: Without Alarm Capability 2: With Alarm Capability*  *Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments	Please specify Inlet connection (if applicable)  CGA DIN 477 BS 341 and others available

#### 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

Capsule® is a registered trademark of Controls Corporation of America.

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

The above information was provided to DCG by the product manufacturer. DCG makes no additional warranties or representations.

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