

DCG Spec-Brief™

523 Series Automatic Switchover with Brass Components

SB – 128



Advanced Features:

- 400 Series Brass System Components and Capsule® seat
- Metal to Metal seal 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

DCG's Spec-Brief™

Consult the following Spec's for related Application:

SB-111 405 Series High Purity Brass Regulator

DCG's 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 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.

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

523	A	B	C	D	CON
Series	Outlet Pressure	Inlet Connections	Cylinders/Side	Assembly	Pigtail
523	2: 0-50 PSIG 3: 0-100 PSIG 4: 0-200 PSIG 5: 0-350 PSIG 7: 0-150 PSIG	0: 1/2" 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: 1/2" FPT with captured vent 7: Chrome-plated Brass Manifolds (24" flexible pigtails at each station)	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 Connection (If Applicable) CGA DIN 477 BS 341 and others available
		*One cylinder/side only.	^ includes captured vent		

Related Options:

- ❖ 0-4000 BAR/PSI* with Pressure Switches ^ and 110V Remote Control
- ❖ 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
- ❖ 0600 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

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): 1/2" FPT
 Outlet Connection: 1/4" stainless steel compression tube
 Helium leak integrity: **1 X 10⁻⁸ scc/sec**

Materials of Construction:

Priority Valve: 316L Stainless Steel barstock
Line Regulator: 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: Brass, Bronze & Stainless Steel
Check Valves: Brass with Viton® seals




 DCG Partnership 1, Ltd.
 4170A S. Main St. Pearland, TX 77581
281-648-1894, Option 1
www.dcgpartnership.com

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