



CHEM MASTER SGD6000 SERIES

6.0 Purity Two Stage Stainless Steel Diaphragm Differential Autochange Gas Control Panel

The Chem Master SGD6000 series single stage differential autochange control panels are designed for primary pressure gas control of corrosive, toxic and high purity gases up to grade 6.0 purity (99.9999%), on gas distribution systems where slight pressure variation is acceptable.

- **SGD6041 Series** | Two Stage Twin Cylinder Diaphragm Differential Autochange Gas Control Panel, FKM Seal, FFKM Pressure Relief Valve
- **SGD6042 Series** | Two Stage Twin Cylinder Diaphragm Differential Autochange Gas Control Panel, EPDM Seal, FFKM Pressure Relief Valve



FEATURES

High pressure isolation valves

High pressure purge facility

Two stage pressure regulation

Process line isolation valve

Encapsulated seat design

Twin cylinder configuration



MATERIALS

| Body | 316L Stainless Steel | | | |
|-----------|--------------------------------|--|--|--|
| Bonnet | Nickel Plated Brass Barstock | | | |
| Diaphragm | 316L Stainless Steel | | | |
| Seal | PTFE | | | |
| Seat | PCTFE | | | |
| Filter | 10 Micron 316L Stainless Steel | | | |

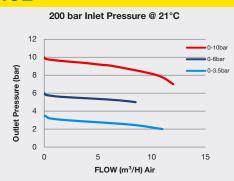
| | SPECIFICATION |
|--|---------------|
|--|---------------|

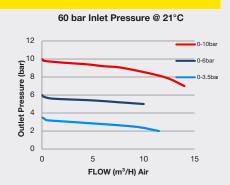
| Maximum Inlet Pressure | 60 bar (870 PSI) / 300 bar (4350 PSI)* |
|----------------------------|--|
| Delivery Pressure Range | 3.5 bar (50 PSI) / 6 bar (90 PSI) / 10 bar (150 PSI) |
| Gauge | 50mm (2") Diameter |
| Ports | 1/4" NPT Female |
| Temperature Range | -20° C to +60° C (-4° F to +140° F) |
| Flow Coefficient (Cv) | 0.078 |
| Helium Leak Integrity | 1x10 ⁹ mbar l/s |
| Weight | 8.00kg (17.64 lbs)**** |
| | |

* Subject to cylinder connection. *** Nace and 3.1 material certificates available on request, Please contact the sales office for further information. *** Subject to final configuration.



FLOW PERFORMANCE

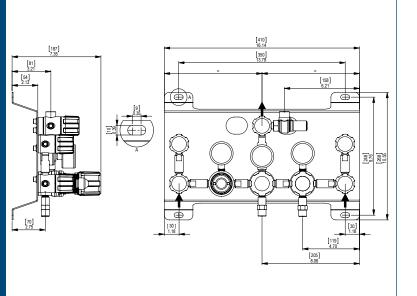


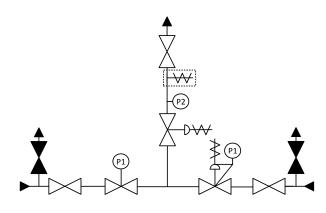






PROCESS & INSTRUMENTATION





- Isolation Valve

- Isolation Valve (Closed)

—№ - P2 Pressure Gauge

- Fixed Pressure Regulator with P1 Pressure Gauge

- Adjustable Pressure Regulator with P 1 Pressure Gauge and Pressure Relief Valve - Denotes a Configurable Option

- Adjustable Pressure Regulator with Pressure Relief Valve

| Model No. Selector Guide | | | | | | | | |
|--------------------------|---------------------------------|-------------------------------------|--|---|--|---------------------------------------|--|--|
| Product Type | Inlet Pressure | Outlet Pressure | Inlet Pressure Gauge | Outlet Pressure Gauge | Inlet Connection | Outlet Connection | Options | |
| SGD6041 | 02 60 bar / 870 PSI | 03 -1 - 3.5 bar / 50 PSIG | 00 No Gauge Fitted | 00 No Gauge Fitted | 000 No Inlet Fitted | 00 No Outlet Fitted | A No Options Selected | |
| SGD6042 | 04 300 bar / 4350 PSI | 04 -1 - 6 bar / 90 PSIG | 01 bar/PSI | 01 bar/PSI | 001 1/8 Stainless Steel Compression | 01 1/8 Stainless Steel Compression | F Bonnet Vent Capture Kit | |
| | | 05 -1 - 10 bar / 150 PSIG | 02 bar/PSI Contact Gauge | 02 bar/PSI 3.1 Cert (stainless steel only)*** | 002 1/4 Stainless Steel Compression | 02 1/4 Stainless Steel Compression | G Helium Test Certificate | |
| | | | 03 bar/PSI 3.1 Cert (stainless steel only)*** | | 003 6mm Stainless Steel Compression | 03 6mm Stainless Steel Compression | H 3.1 Material Certificate*** | |
| | | | 04 bar/PSI Contact Gauge 3.1 Cert (stainless steel only)*** | | 004 1/4 NPT Male | 04 1/4 NPT Male | J NACE Certificate*** | |
| | | | | | | | K Certificate of Conformity | |
| | | | | | | | M CO2 Burst Disc | |
| | | | | | | | P Calibration / Pressure Test Certificate | |
| | | | | | | | R Fitted Pipeline Pressure Relief Valve, FKM Seal | |
| | | | | | | | S Fitted Pipeline Pressure Relief Valve, EPDM Seal | |
| | | | | | | | X Special Instruction | |
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