



# CHEM MASTER SGM6000 SERIES

6.0 Purity Single Stage Stainless Steel Diaphragm Manual Change Gas Control Panel

The Chem Master SGM6000 series single stage manual change control panels are designed for primary pressure gas control of corrosive, toxic or high purity gases up to grade 6.0 purity (99.9999%), on gas distribution systems where slight pressure variation is acceptable.

- SGM6011 Series | Single Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FFKM Pressure Belief Valve
- SGM6012 Series | Single Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, FFKM Pressure Relief Valve
- SGM6031 Series | Single Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FFKM Pressure Relief Valve
- SGM6032 Series | Single Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, FFKM Pressure Relief Valve

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#### **FEATURES**

High pressure isolation valves

High pressure purge facility

Single stage pressure regulation

Process line isolation valve

Encapsulated seat design

Single and 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			

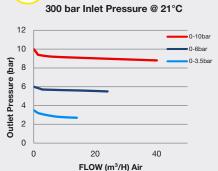
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7.5	CDECIEICATIO
	<b>SPECIFICATION</b>

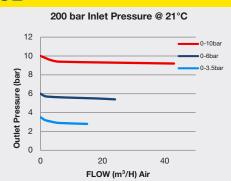
Maximum Inlet Pressure	60 bar (870 PSI) / 300 bar (4350 PSI)*
Delivery Pressure Range	3.5 bar (50 PSI) / 6 bar (90 PSI) / 10 bar (150 PSI)
Gauge	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Flow Coefficient (Cv)	0.1
Helium Leak Integrity	1x10 <sup>-9</sup> mbar l/s
Weight	5.0kg (11.02 lbs)****

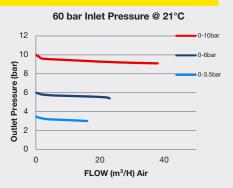
\* Subject to cylinder connection. \*\*\* Nace and 3.1 material certificates available on request, Please contact the sales office for further information. \*\*\* Subject to final configuration



#### **FLOW PERFORMANCE**



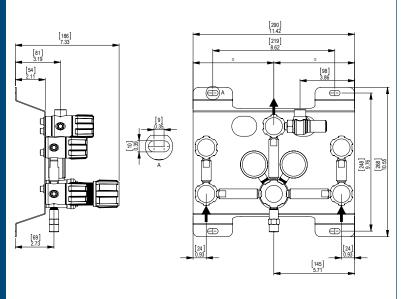


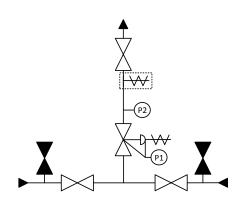






### PROCESS & INSTRUMENTATION





- Isolation Valve (Closed)

- Isolation Valve

—№ - P2 Pressure Gauge



- Adjustable Pressure Regulator with P1 Pressure Gauge and Pressure Relief Valve

- Pressure Relief Valve
- Denotes a Configurable Option

Model No. Selector Guide									
Product Type	Inlet Pressure	Outlet Pressue	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet Connection	Outlet Connection	Options		
SGM6011	<b>02</b> 60 bar / 870 PSI	<b>03</b> -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		
SGM6012	<b>04</b> 300 bar / 4350 PSI	<b>04</b> -1 - 6 bar / 90 PSIG	01 bar/PSI	01 bar/PSI	001 1/8 Stainless Steel Compression	01 1/8 Stainless Steel Compression	<b>F</b> Bonnet Vent Capture Kit		
SGM6031		<b>05</b> -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		
SGM6032			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)***		<b>004</b> 1/4 NPT Male	<b>04</b> 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		