



# CHEM MASTER SGM6200 SERIES

#### 6.0 Purity Two Stage Stainless Steel Piston Manual Change Gas Control Panel

The Chem Master SGM6200 series two 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 constant delivery pressure is required.

- SGM6221 Series | Two Stage Single Cylinder Piston Manual Gas Change Control Panel, FKM Seal
- SGM6222 Series | Two Stage Single Cylinder Piston Manual Gas Change Control Panel, EPDM Seal
- **SGM6241 Series** | Two Stage Twin Cylinder Piston Manual Gas Change Control Panel, FKM Seal
- SGM6242 Series | Two Stage Twin Cylinder Piston Manual Gas Change Control Panel, EPDM Seal

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#### **FEATURES**

High pressure isolation valves

High pressure purge facility

Two 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			
Piston	316L Stainless Steel			
Seal	FKM / EPDM			
Seat	PCTFE			
Filter	10 Micron 316L Stainless Steel			

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	SPECIFICATION	וע

Maximum Inlet Pressure	60 bar (870 PSI) / 300 bar (4350 PSI)*				
Delivery Pressure Range	20 bar (300 PSI) / 50 bar (725 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 <sup>-9</sup> mbar l/s				
Weight	5.0kg (11.02 lbs)****				

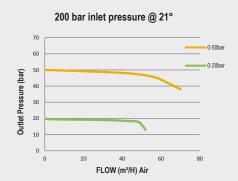
\*\* Cylinder connection not included \*\*\* 3.1 material certificates available on extended lead times, contact the sales office for further information. \*\*\*\* Subject to final configuration

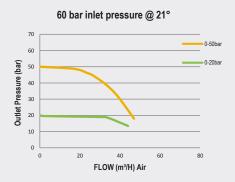


#### **FLOW PERFORMANCE**

# 0.50bar 0.20bar 0.20ba

300 bar inlet pressure @ 21°

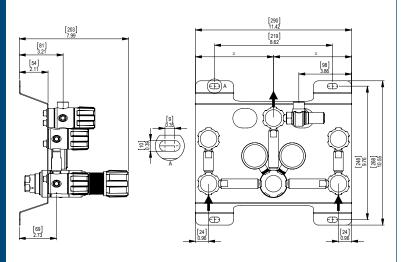


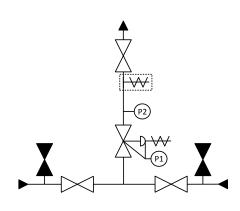




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#### PROCESS & INSTRUMENTATION





- Isola

- Isolation Valve

- Isolation Valve (Closed)

- Adjustable Pressure Regulator with P1 Pressure Gauge and Pressure Relief Valve — P2 Pressure Gauge→ Pressure Relief Valve

:: - Denotes a Configurable Option

Model No. Selector Guide									
Product Type	Inlet Pressure	Outlet Pressure	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet/Cylinder Connection	Outlet Connection	Options		
SGM6221	<b>02</b> 60 bar / 870 PSI	<b>07</b> -1 - 20 bar / 300 PSIG	00 No Gauge Fitted	00 No Gauge Fitted	000 No Inlet Fitted	00 No Outlet Fitted	A No Options Selected		
SGM6222	<b>04</b> 300 bar / 4350 PSI	<b>10</b> -1 - 50 bar / 725 PSIG	01 bar/PSI	01 bar/PSI	001 1/8 Stainless Steel Compression	01 1/8 Stainless Steel Compression	F Bonnet Vent Capture Kit		
SGM6241			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		
SGM6242			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		
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