



LAB MASTER LGM5000 SERIES

5.0 Purity Two Stage Nickel Plated Brass Barstock Diaphragm Manual Change Gas Control Panel

The Lab Master LGM5000 series Two stage manual change control panels are designed for primary pressure gas control of non-corrosive or toxic, high purity gases up to grade 5.0 purity (99.999%), on gas distribution systems where constant delivery pressure is required.

- LGM5021 Series | Two Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FKM Pressure Relief Valve
- **LGM5022 Series** | Two Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, EPDM Pressure Relief Valve
- **LGM5041 Series** | Two Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FKM Pressure Relief Valve
- LGM5042 Series | Two Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, EPDM 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	Nickel Plated Brass Barstock			
Bonnet	High Strength Alloy			
Diaphragm	n 316L Stainless Steel			
Seal	PTFE			
Seat	Polyamide (Nylon®)			
Filter	10 Micron 316L Stainless Steel			

^{*} Subject to cylinder connection. **** Subject to final configuration.

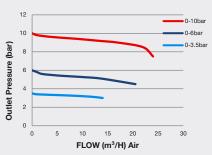
SPECIFICATION

Maximum Inlet Pressure	60 bar (870 PSI) / 300 bar (4350 PSI)*			
Delivery Pressure Range				
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			
Weight	5.00kg (11.02 lbs)****			

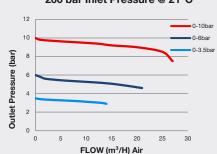


FLOW PERFORMANCE

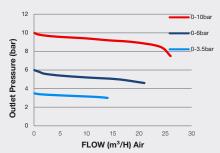
300 bar Inlet Pressure @ 21°C



200 bar Inlet Pressure @ 21°C



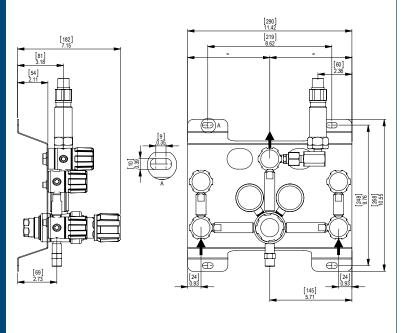
60 bar Inlet Pressure @ 21°C

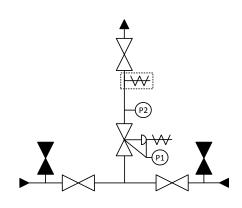






PROCESS & INSTRUMENTATION





- 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 Connection	Outlet Connection	Options		
LGM5021	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		
LGM5022	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	K Certificate of Conformity		
LGM5041		05 -1 - 10 bar / 150 PSIG	02 bar/PSI Contact Gauge		002 1/4 Stainless Steel Compression	02 1/4 Stainless Steel Compression	M CO2 Burst Disc		
LGM5042					003 6mm Stainless Steel Compression	03 6mm Stainless Steel Compression	P Calibration / Pressure Test Certificate		
					004 1/4 NPT Male	04 1/4 NPT Male	R Fitted Pipeline Pressure Relief Valve, FKM Seal		
					007 G3/8 BSP R/H Brass Male	06 G1/2 BSP R/H Brass Male	S Fitted Pipeline Pressure Relief Valve, EPDM Seal		
					008 G3/8 BSP L/H Brass Male	07 G3/8 BSP R/H Brass Male	X Special Instruction		
						08 G3/8 BSP L/H Brass Male			