



LAB MASTER LGM5000 SERIES

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

The Lab Master LGM5000 series single 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 slight pressure variation is acceptable.

- LGM5011 Series | Single Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FKM Pressure Relief Valve
- **LGM5012 Series** | Single Stage Single Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, EPDM Pressure Relief Valve
- LGM5031 Series | Single Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, FKM Seal, FKM Pressure Relief Valve
- LGM5032 Series | Single Stage Twin Cylinder Diaphragm Manual Gas Change Control Panel, EPDM Seal, EPDM Pressure

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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	Nickel Plated Brass Barstock			
Bonnet	High Strength Alloy			
Diaphragm	316L Stainless Steel			
Seal	PTFE			
Seat	Polyamide (Nylon®)			
Filter	10 Micron 316L Stainless Steel			

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

SP

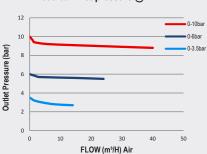
SPECIFICATION

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)	0.1
Weight	5.00kg (11.02 lbs)****

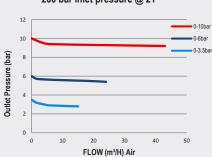


FLOW PERFORMANCE

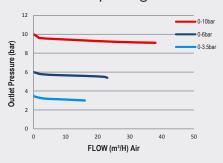
300 bar inlet pressure @ 21° $\,$



200 bar inlet pressure @ 21°



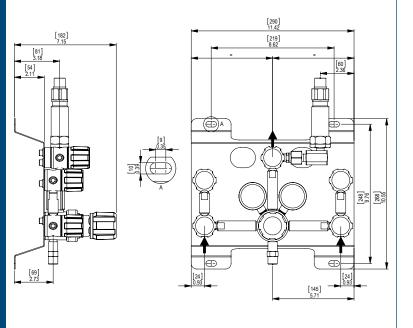
60 bar inlet pressure @ 21°

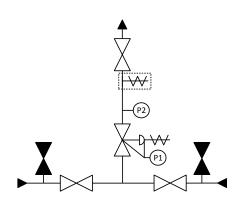




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PROCESS & INSTRUMENTATION





- Isolation Valve

- Isolation Valve (Closed)

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

- Pressure Relief Valve
- Denotes a Configurable Option

Product Type Inlet Pressure Coultet Pressure Cauge C	Model No. Selector Guide									
LGM5012 04 300 bar / 4350 pSl	Product Type	Inlet Pressure	Outlet Pressure		Pressure	Inlet/Cylinder Connection	Outlet Connection	Options		
PSI PSIG Compression Conformity LGM5031 05 -1 - 10 bar / 150 PSIG 02 bar/PSI Contact Gauge 004 1/4 NPT Male 02 1/4 Stainless Steel Compression M CO2 Burst Disc 008 G3/8 BSP L/H Brass Male 03 6mm Stainless Steel Compression P Calibration / Pressure Test Certificate 04 1/4 NPT Male Pressure Relief Valve, FKM Seal 05 G1/2 BSP R/H Brass Male S Fitted Pipeline Pressure Relief Valve, EPDM Seal 07 G3/8 BSP R/H Brass Male X Special Instruction	LGM5011	02 60 bar / 870 PSI				000 No Inlet Fitted	00 No Outlet Fitted			
LGM5032 DOB G3/8 BSP L/H Brass Male DOB G3/8 BSP L/H Brass Steel Certificate DOB G3/8 BSP L/H Brass Male DOB G3/8 BSP L/H Brass Steel Certificate DOB G3/8 BSP R/H Brass Male	LGM5012			01 bar/PSI	01 bar/PSI		01 1/8 Stainless Steel Compression			
Male Compression Pressure Test Certificate 04 1/4 NPT Male R Fitted Pipeline Pressure Relief Valve, FKM Seal 06 G1/2 BSP R/H Brass Male S Fitted Pipeline Pressure Relief Valve, EPDM Seal 07 G3/8 BSP R/H Brass Male X Special Instruction	LGM5031			Contact		004 1/4 NPT Male	02 1/4 Stainless Steel Compression	M CO2 Burst Disc		
Pressure Relief Valve, FKM Seal Of G1/2 BSP R/H Brass Male S Fitted Pipeline Pressure Relief Valve, EPDM Seal Of G3/8 BSP R/H Brass Male X Special Instruction	LGM5032							Pressure Test		
Pressure Relief Valve, EPDM Seal O7 G3/8 BSP R/H Brass Male X Special Instruction							04 1/4 NPT Male	Pressure Relief Valve, FKM Seal		
							06 G1/2 BSP R/H Brass Male	Pressure Relief		
08 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			