



# 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



### **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			

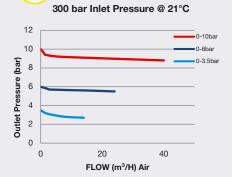
<sup>\*</sup> Subject to cylinder connection. \*\*\*\* Subject to final configuration.

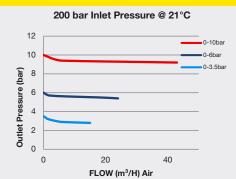
# **SPECIFICATION**

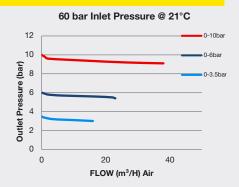
Maximum Inlet Pressure	60 bar (870 PSI) / 300 bar (4350 PSI)*
Delivery Pressure Range	3.5 bar (50 PSI) / 6 bar (90 PSI) / 10 bar (150 PSI)
Gauge	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Flow Coefficient (Cv)	0.1
Weight	5.00kg (11.02 lbs)****



### **FLOW PERFORMANCE**



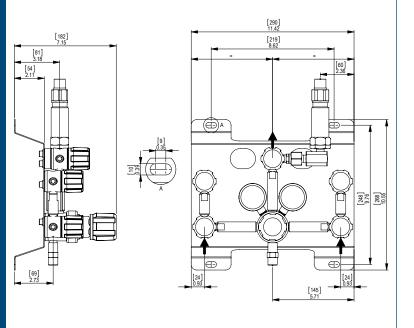


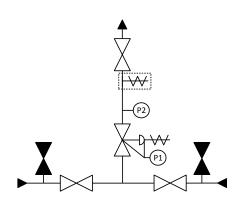






# PROCESS & INSTRUMENTATION





- 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

Model No. Selector Guide									
Product Type	Inlet Pressure	Outlet Pressure	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet Connection	Outlet Connection	Options		
LGM5011	<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		
LGM5012	<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	K Certificate of Conformity		
LGM5031		<b>05</b> -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		
LGM5032					003 6mm Stainless Steel Compression	03 6mm Stainless Steel Compression	P Calibration / Pressure Test Certificate		
					<b>004</b> 1/4 NPT Male	<b>04</b> 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			
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