Gas Control Equipment

Lab Master LGD5040 Series

5.0 Purity Two Stage Nickel Plated Brass Barstock Diaphragm Differential Autochange Gas Control Panel



The Lab Master LGD5040 Series two stage differential autochange 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.

- **LGD5041** Series | Two Stage Twin Cylinder Diaphragm Differential Autochange Gas Control Panel, FKM Seal, FKM Pressure Relief Valve
- **LGD5042** Series | Two Stage Twin Cylinder Diaphragm Differential Autochange Gas 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 valve design
- Twin cylinder configuration

MATERIAL

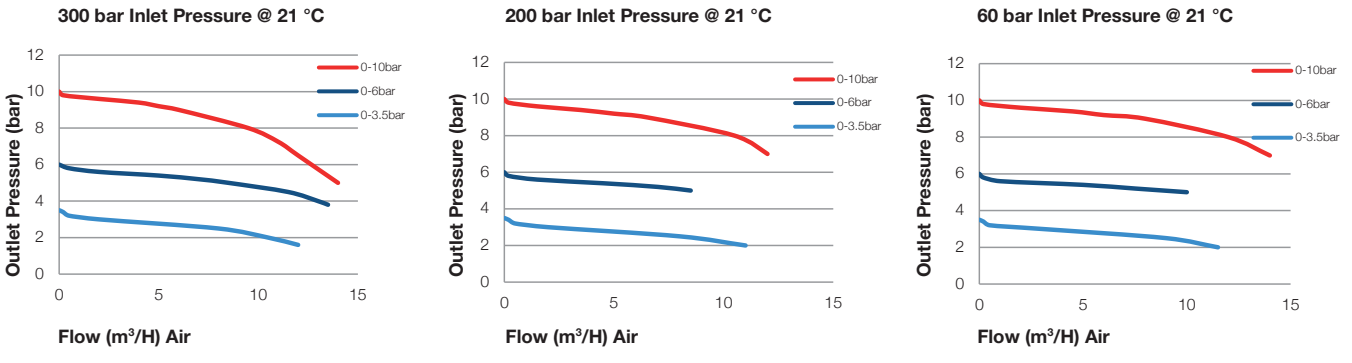
Body	Nickel Plated Brass Barstock
Bonnet Outlet Regulator	High Strength Alloy
Bonnet Pre-Set Regulator	Brass
Bonnet Seal	PTFE
Diaphragm	316L Stainless Steel
Seal Option	FKM / EPDM
Valve Seat	Polyamide (Nylon®)
Filter	10 Micron 316L Stainless Steel

SPECIFICATION

Maximum Inlet Pressure	15 bar (220 PSI) 60 bar (870 PSI) 300 bar (4350 PSI) *
Delivery Pressure Range	3.5 bar (50PSI) 6.0 bar (90PSI) 10 bar (150 PSI)
Gauges	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Weight	8.0 kg (17.46 lbs) ****

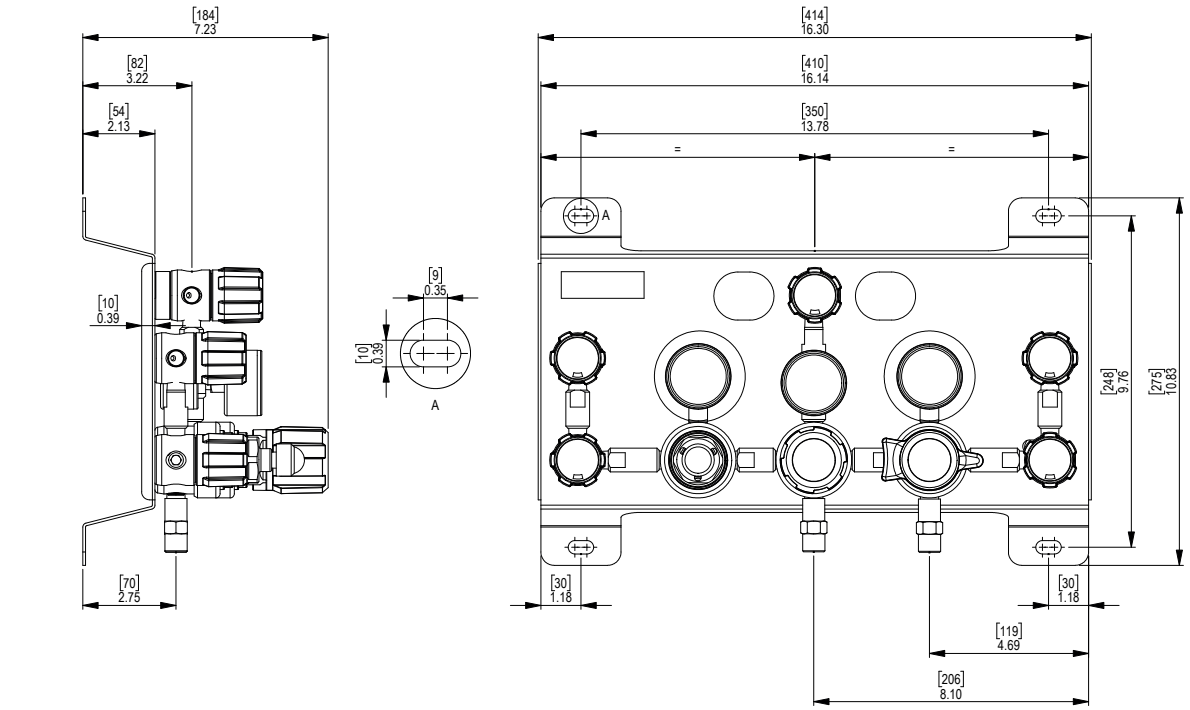
** Subject to cylinder connection – **** Subject to final configuration*

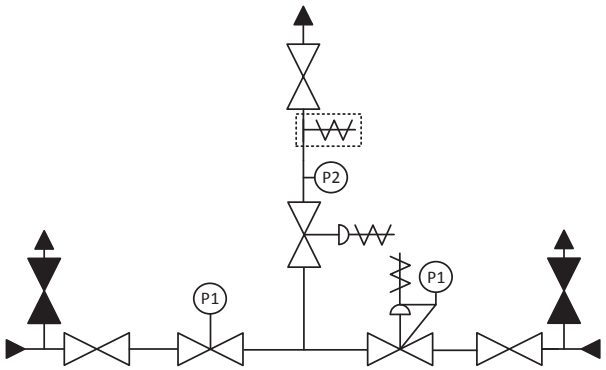
FLOW PERFORMANCE

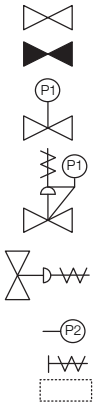


We do everything we can to ensure that the technical information within this document is correct at time of publishing, however content may be changed without notice.

DRAWINGS







- Isoation Valve
- Isoation Valve (Closed)
- Fixed Pressure Regulator with P1 Pressure Gauge
- Adjustable Pressure Regulator with P1 Pressure Gauge & Pressure Relief Valve
- Adjustable Pressure Regulator wit Pressure Relief Valve
- P2 Pressure Gauge
- Pressure Relief Valve
- Denotes a Configuration Option

MODEL NO. SELECTOR GUIDE

Example for a Model No. for LGD5040 Series

LGD5041- 02- 03- 00- 00- 000- 00- A

Product Type	Inlet Pressure Bar [PSI]	Outlet Pressure Bar [PSI]	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet/Cylinder Connection	Outlet Connection	Options
LGD5041	**02** 60 [870]	**03** 0 to 3.5 [50]	**00** No Gauge Fitted	**00** No Gauge Fitted	**000** 1/4 NPT Female	**00** 1/4 NPT Female	**A** No Options Selected
LGD5042	**04** 300 [4350]	**04** 0 to 6 [90]	**01** bar/PSI	**01** bar/PSI	**001** 1/8 Stainless Steel Compression	**01** 1/8 Stainless Steel Compression	**K** Certificate of Conformity
	06 15 [220]	**05** 0 to 10 [150]	**02** bar/PSI Contact Gauge		**002** 1/4 Stainless Steel Compression	**02** 1/4 Stainless Steel Compression	**M** CO2 Burst Disc
					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
					007 G3/8 BSP R/H Brass Male	**06** G1/2 BSP R/H, Brass, Male	**X** Special Instruction
					008 G3/8 BSP L/H Brass Male	**07** G3/8 BSP R/H, Brass, Male	
						08 G3/8 BSP L/H, Brass, Male	

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