



Lab Master LGD5040 Series

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

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.

- **LG5041 Series** | Two Stage Twin Cylinder Diaphragm Differential Autochange Gas Control Panel, FKM Seal, FKM Pressure Relief Valve
- **LG5042 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

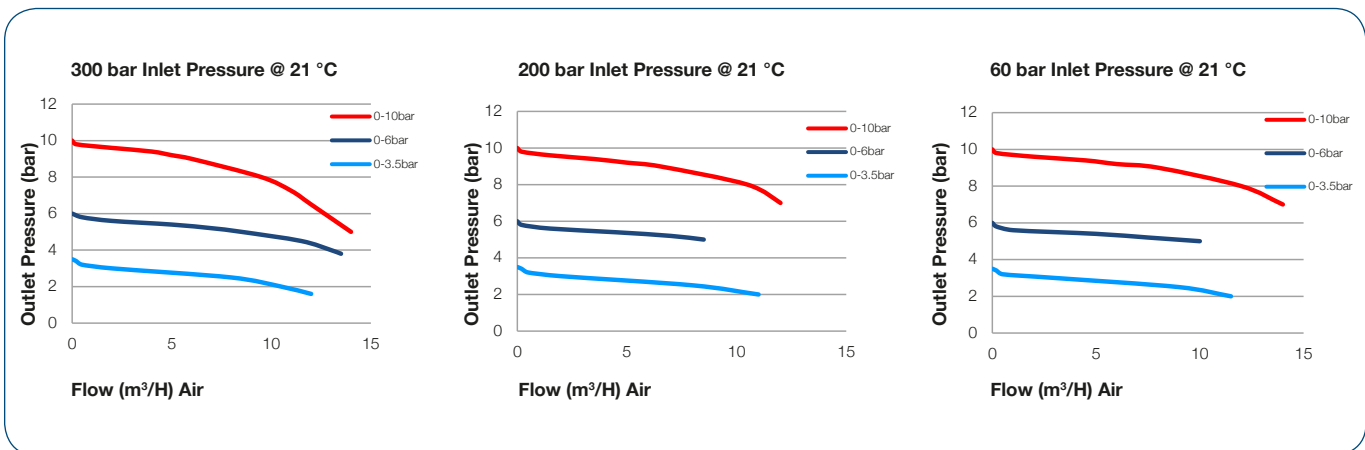
| | |
|-----------------------------------|--------------------------------|
| ■ Body | Nickel Plated Brass Barstock |
| ■ Bonnet Outlet Regulator | High Strength Alloy |
| ■ Bonnet Pre-Set Regulator | Brass |
| ■ Bonnet Seal | PTFE |
| ■ Diaphragm | 316L Stainless Steel |
| ■ Seal Option | FKM / EPDM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

👍 SPECIFICATION

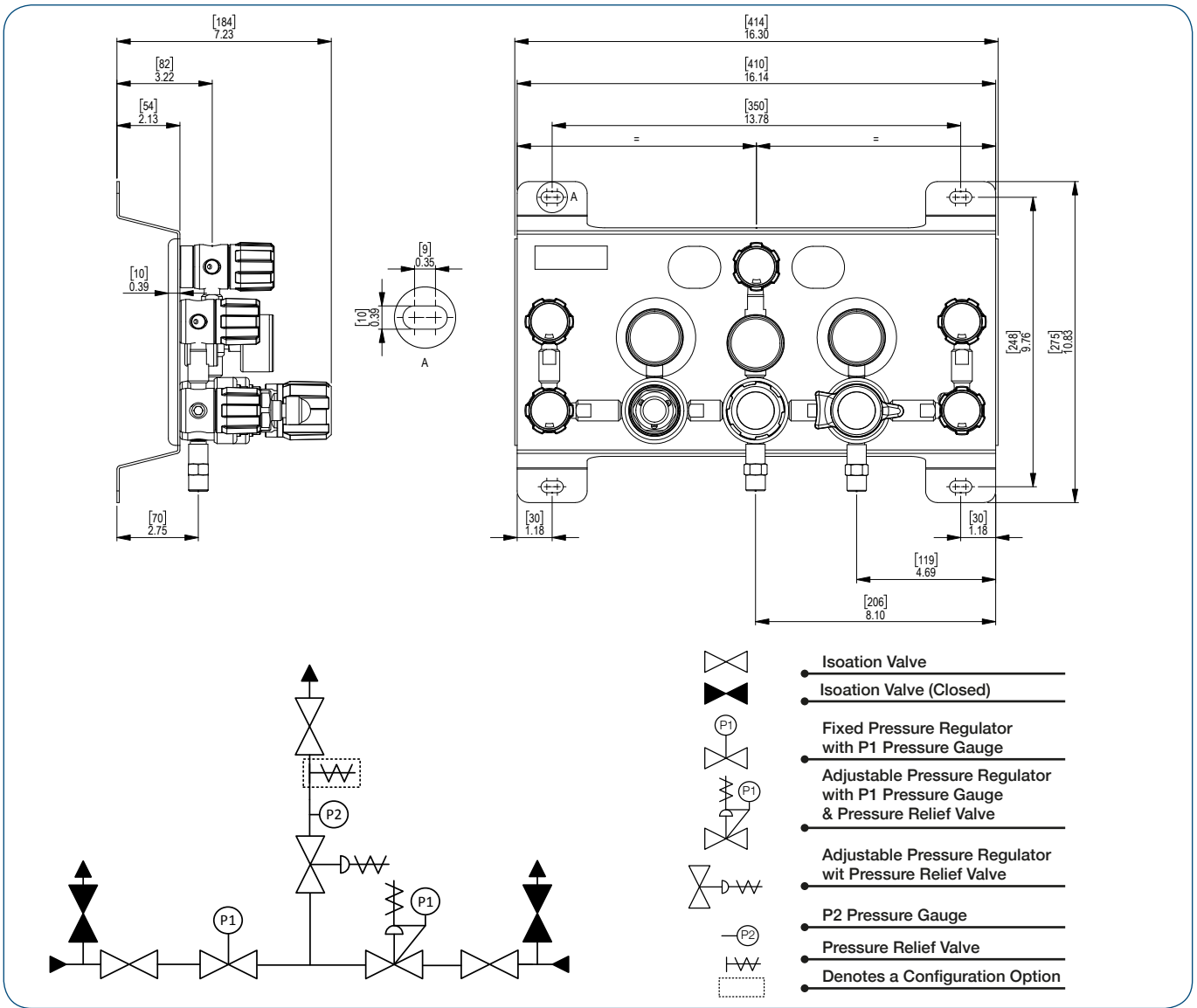
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|----------------------------------|--|
| ■ Maximum Inlet Pressure | 15 bar (220 PSI) 60 bar (870 PSI) 300 bar (4350 PSI) * |
| ■ Delivery Pressure Range | 3.5 bar (50PSI) 6.0 bar (90PSI) 10 bar (150 PSI) |
| ■ Gauges | 50mm (2") Diameter |
| ■ Ports | 1/4" NPT Female |
| ■ Temperature Range | -20° C to +60° C (-4° F to +140° F) |
| ■ Flow Coefficient (Cv) | 0.078 |
| ■ Weight | 8.0 kg (17.46 lbs) **** |

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

✓ FLOW PERFORMANCE



DRAWINGS



MODEL NO. SELECTOR GUIDE

Example for a Model No. for LGD5040 Series

| 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, 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 | |