Gas Control Equipment

Lab Master LGL500 Series

5.0 Purity Single Stage Nickel Plated Brass Barstock Diaphragm Line Regulator



The Lab Master LGL500 Series single stage diaphragm line regulators are designed for secondary pressure gas control of non-corrosive or toxic, high purity gases up to grade 5.0 purity (99.999%), on gas distribution systems.

- **LGL500** Series | Single Stage Diaphragm Line Regulator

FEATURES

- Four port configuration
- Rear panel mounting capabilities
- Encapsulated seat design
- Low wetted surface area
- Full range of inlet and outlet fittings
- Side entry

MATERIAL

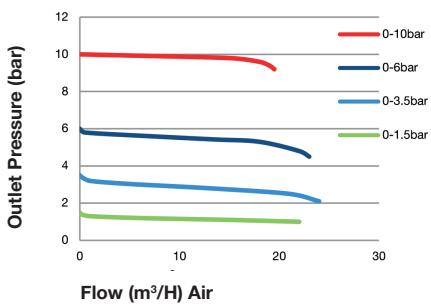
Body	Nickel Plated Brass Barstock
Bonnet	High Strength Alloy
Diphragm	316L Stainless Steel
Seal	PTFE
Seat	Polyamide (Nylon®)
Filter	10 Micron 316L Stainless Steel

SPECIFICATION

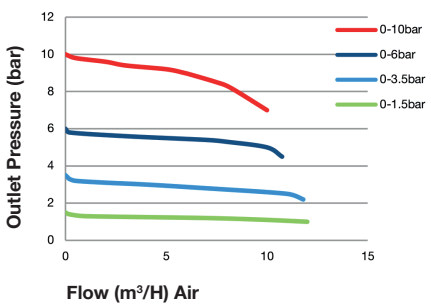
Maximum Inlet Pressure	60 bar (870 PSI)
Delivery Pressure Range	1.5 bar (22 PSI)
	3.5 bar (50 PSI)
	6 bar (90 PSI)
	10 bar (150 PSI)
Gauges	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Weight	1.1 kg (2.5 lb)

FLOW PERFORMANCE

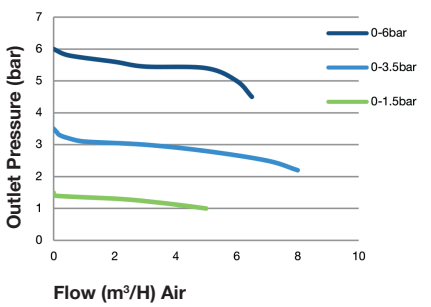
20 bar Inlet Pressure @ 21 °C



10 bar Inlet Pressure @ 21 °C



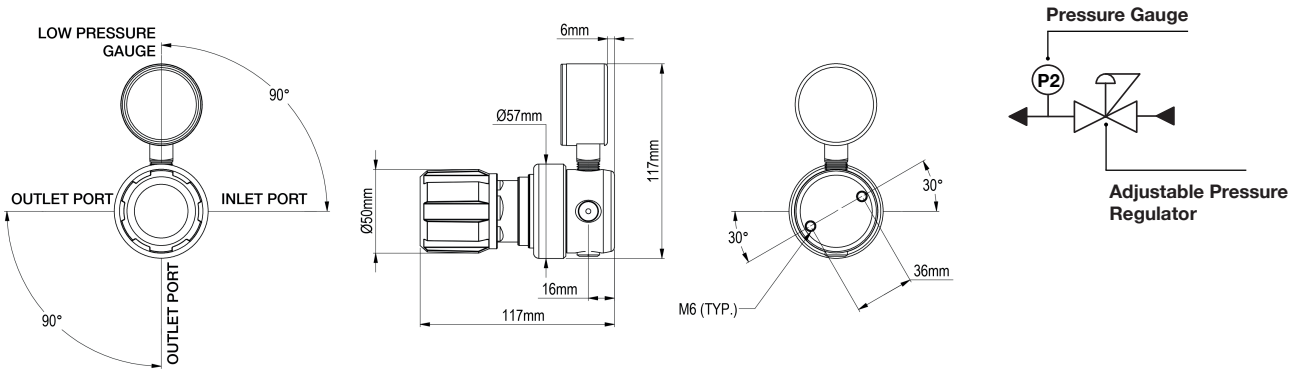
6 bar Inlet Pressure @ 21 °C



DCR A0981

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



MODEL NO. SELECTOR GUIDE

Example for a Model No. for LGL500 Series

LGL500-	02-	02-	00-	00-	001-	01-	A
Product Type	**Inlet Pressure Bar [Psig]**	**Outlet Pressure Bar [Psig]**	**Inlet Pressure Gauge**	**Outlet Pressure Gauge**	**Inlet Connection**	**Outlet Connection**	**Options**
LGL500	**02** 60 [870]	**02** 0 to 1.5 [22]	**00** No Gauge Fitted	**00** No Gauge Fitted	**000** 1/4 NPT Female	**00** 1/4 NPT Female	**A** No Options Selected
		03 0 to 3.5 [50]		**01** bar/PSI	**001** 1/8 Stainless Steel Compression	**01** 1/8 Stainless Steel Compression	**K** Certificate of Conformity (CoC)
		04 0 to 6 [90]		**10** Plugged port	**002** 1/4 Stainless Steel Compression	**02** 1/4 Stainless Steel Compression	**P** Calibration / Pressure Test Certificate
		05 0 to 10 [150]			**003** 6mm Stainless Steel Compression	**03** 6mm Stainless Steel Compression	**X** Special Instruction
					004 1/4 NPT Male	**04** 1/4 NPT Male	
					006 G1/2 BSP R/H Brass Male	**06** G1/2 BSP R/H Brass Male	
					007 G3/8 BSP R/H Brass Male	**07** G3/8 BSP R/H Brass Male	
					008 G3/8 BSP L/H Brass Male	**08** G3/8 BSP L/H Brass Male	
						09 Isolation Valve, 1/4 NPT Female, FKM Seal	
						10 Isolation Valve, 1/4 NPT Female, EPDM Seal	
						11 Isolation Valve, 1/8 Stainless Steel Compression, FKM Seal	
						12 Isolation Valve, 1/8 Stainless Steel Compression, EPDM Seal	
						13 Isolation Valve, 1/4 Stainless Steel Compression, FKM Seal	
						14 Isolation Valve, 1/4 Stainless Steel Compression, EPDM Seal	
						15 Isolation Valve, 6 mm Stainless Steel Compression, FKM Seal	
						16 Isolation Valve, 6mm Stainless Steel Compression, EPDM Seal	
						17 Isolation Valve, 1/4 NPT Male, FKM Seal	
						18 Isolation Valve, 1/4 NPT Male, EPDM Seal	
						19 Isolation Valve, G3/8 BSP R/H Brass Male, FKM Seal	
						20 Isolation Valve, G3/8 BSP R/H Brass Male, EPDM Seal	
						21 Isolation Valve, G3/8 BSP L/H Brass Male, FKM Seal	
						22 Isolation Valve, G3/8 BSP L/H Brass Male, EPDM Seal	

GCE® Gas Control Equipment

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