

Lab Master LG500 Series regulators are intended for primary pressure gas control of:

- Non-Corrosive
- High Purity gases (up to 5.0 Grade)

The Lab Master LG500 series regulators are intended for primary pressure gas control of non corrosive, high purity gases, up to 5.0 purity grade.

LGS500 Series -

Nickel Plated Brass Single Stage Regulator for applications where slight pressure variance in delivery pressure is acceptable (as cylinder pressure decreases)

LGT500 Series -

Nickel Plated Brass Two Stage Regulator for applications where constant pressure is required (as cylinder pressure decreases)

LGL500 Series -

Nickel Plated Brass Line Regulator for gas applications, for distribution systems (pipelines)



LGS500 SERIES



LGT500 SERIES



LGL500 SERIES





LG500 SERIES

TYPICAL APPLICATIONS					
Laboratory research					
Analytical process					
Process analysers					
Gas chromatography					
High purity cgas handling					

	MATERIALS
Body	Nickel Plated Brass Barstock
Bonnet	High Strength Alloy
Seat	Nylon
Diaphragm	316L Stainless Steel
Seals	PTFE
Filter	10 Micron sintered 316L Stainless Steel

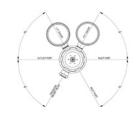
FEATURES
Six port configuration
Rear panel mounting capabilities (Line and single stage regulators)
Encapsulated seat design
Low wetted surface area
Full range of inlet and outlet fittings
Fitted pressure relief valve (Single and two stage regulators)

	CDI	ECIFICATION						
Maximum Inlet Pressure 25 bar (360 psig), 60 bar (870 psig), 207 bar (3000 psig), 300 bar (4350 psig)*								
Delivery Pressure Range psig	0-15 psig, 0-22	0-15 psig, 0-22 psig, 0-50 psig, 0-90 psig, 0-150 psig						
Delivery Pressure Range bar	0-1 bar, 0-1.5 b	0-1 bar, 0-1.5 bar, 0-3.5 bar, 0-6 bar, 0-10 bar						
Gauges	50mm (2") dian	50mm (2") diameter snap-on tamper proof lens						
Ports	1/4" NPT Femal	1/4" NPT Female						
Temperature Range	-40° C to +60° C	-40° C to +60° C (60° F to 140° F)						
Flow Coefficient	LGS / LGL	LGT						
	C _v =0.094	C _v =0.078						
Ports	1/4" NPT Femal	1/4" NPT Female						
Weight	LGL500 / 510 0	LGL500 / 510 0.95kg (2.1lb)						
	LGS500 / 510 1.05kg (2.3lb)							
	LGT500 / 510 1.5kg (3.5lb)							

 $^{{}^{*}\}text{Single}$ and Two Stage regulators with no fitting fitted in to the regulator

SINGLE STAGE REGULATOR

LG500 Series — Single Stage diaphragm regulator with relief valve



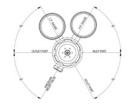


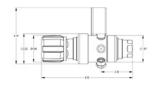


DIMENSIONS

TWO STAGE REGULATOR

LG500 Series – Two Stage diaphragm regulator with relief valve

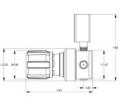




LINE REGULATOR

LG500 Series – Line regulator with no relief valve

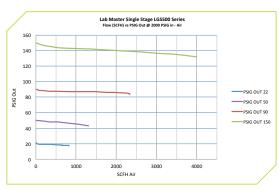


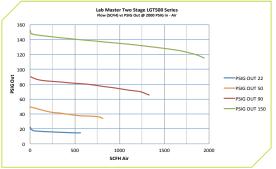


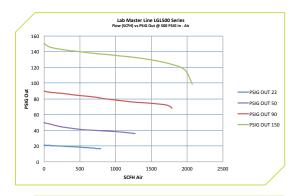


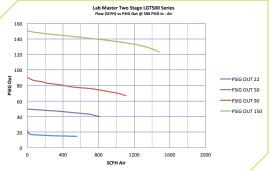


FLOW PERFORMANCE









MODEL NO. SELECTOR GUIDE

LGS500-03-05-03-03-102-39-L

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INLET PRESSURE	DELIVERY Pressure	INLET PRESSURE Gauge Unit	DELIVERY PRESSURE Gauge Unit		INLET FITTINGS		OUTLET FITTINGS		OPTIONS
01 360 psi	01 0-15 psi	OO No Gauge	OO No Gauge	000	No Inlet Fittings	00	No Outlet Fittings	Α	No Options
03 3000 psi	02 0-22 psi	O3 Bar/psi	03 Bar/PSI	001	1/8" Compression Tube Brass	01	1/8" Compression Tube Brass	L	Compliance Certificate
04 4350 psi	03 0-50 psi	Plated Brass	Plated Brass	003	1/4" Compression Tube Brass\	03	1/4" Compression Tube Brass	N	With Out Relief Valve
	04 0-90 psi			800	1/4" NPT Male Brass Chrome Plated	80	1/4" NPT Male Brass Chrome Plated		
	05 0-150 psi			093	CGA 296 Brass Chrome Plated	32	DRK Diffusion Resistant Shut-Off Valve 1/4" NPT Female Brass Chrome Plated		
				094	CGA 300 Brass Chrome Plated	33	DRK Diffusion resistant Shut-Off Valve 1/8" Tube Brass Chrome Plated		
				095	CGA 320 Brass Chrome Plated	34	DRK Diffusion resistant Shut-Off Valve 1/4" Tube Brass Chrome Plated		
				096	CGA 326 Brass Chrome Plated				
							•		
						41	Control Valve 1/4" Compression Tube Brass Chrome Plated		
				104	CGA 580 Brass Chrome Plated				
				110	CGA 993 Brass Chrome Plated				
	01 360 psi 03 3000 psi	O1 360 psi O1 0-15 psi O3 3000 psi O2 0-22 psi O4 4350 psi O3 0-50 psi O4 0-90 psi	O1 360 psi O1 0-15 psi O0 No Gauge 03 3000 psi 02 0-22 psi 03 Bar/psi 04 4350 psi 03 0-50 psi Plated Brass	O1 360 psi O1 0-15 psi O0 No Gauge O0 No Gauge 03 3000 psi 02 0-22 psi 03 Bar/psi 03 Bar/PSI 04 4350 psi 03 0-50 psi Plated Brass Plated Brass	O1 360 psi O1 0-15 psi O0 No Gauge O01 No	PRESSURE GAUGE UNIT GAUGE UNIT GAUGE UNIT	O1 360 psi	O1 360 psi	O1 360 psi

Rules: LGS500 1) Model number for delivery pressures from 22 up to 150 psi

2) Inlet Pressure of 4350 psi (option 4) only available with no inlet fitting (option 00 - inlet fittings) and option N (with out relief valve - options) not available **LGS510 Acetylene** 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure



MODEL NO. SELECTOR GUIDE

LGT500-03-05-03-03-102-32-L

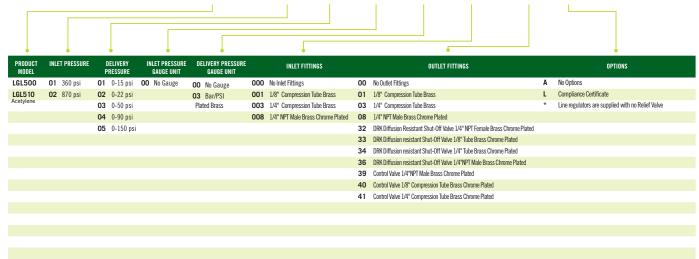


Rules: **LGT500** 1) Model number for delivery pressures from 22 up to 150 psi

2) Inlet Pressure of 4350 psi (option 4) only available with no inlet fitting (option 00 - inlet fittings) and option N (with out relief valve - options) not available LGT510 Acetylene 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure

MODEL NO. SELECTOR GUIDE

LGL500-02-05-00-03-000-39-L



Rules: **LGL500** 1) Model number for delivery pressures 22 up to 150 psi

LGL510 Acetylene 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure



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