



LSB Series
**High Purity, Single-Stage, Chrome-Plated Brass, Liquid
 Cylinder Regulators (Gas Withdrawal)**

SPECIFICATION

Applications

Specifically designed for gaseous withdrawal from cryogenic liquid cylinders

- Brass body

Medium flow applications

- Cv of 0.37

Accepts inlet pressures up to 3000 PSIG, allowing it to be used on both liquid cylinders or high pressure cylinders

- Single-stage high pressure regulator

For gas cylinders

- Directly mounted to the cylinder valve with related gas cylinder nut and nipple (no inlet gauge)

Key Features

Stainless steel diaphragm

- Eliminates "off-gassing" associated with neoprene diaphragm into the gas stream

One-piece encapsulated seat design

- Ease of maintenance and ease of cleaning

Tamper-proof self re-seating internal valve

- Maintains regulator integrity and reduces maintenance

Chrome plated body and bonnet

- Provides polished finish and ease of cleaning

Seat assembly with built-in filter

- Traps foreign matter thus extending regulator life and reduces maintenance



Ordering Information



Part Number Matrix - LSB

A	
GAS	INSCRIBE
Argon	CGA 580
Argon mix	CGA 580
Carbon dioxide*	CGA 320
Nitrogen	CGA 580
Oxygen	CGA 540
Other gas: provide CGA number	

B	
DELIVERY PRESSURE	INSCRIBE
30-125 psi [2-9 bar] 0-200 psi gauge)	125
50-350 psi [3-24 bar] (0-400 psi gauge)	250
100-500 psi [7-34 bar] (0-1000 psi gauge)	500

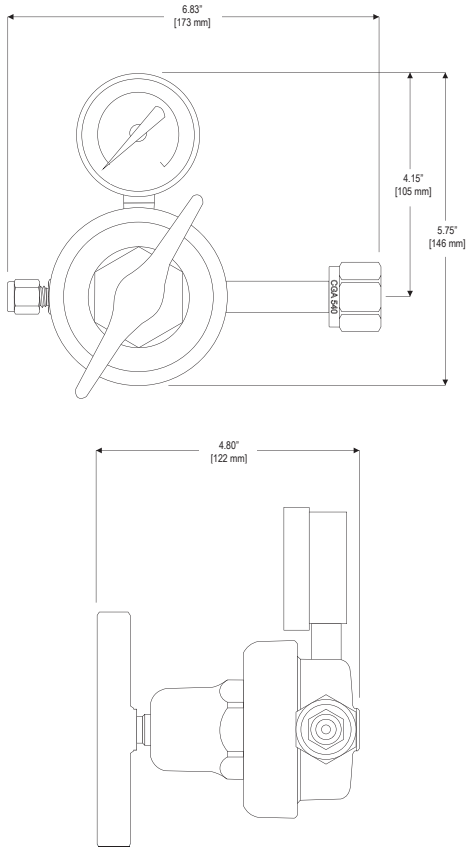
D	
COUNTRY	INSCRIBE
USA	Leave blank
Germany	DIN
United Kingdom	BS
France	AFNOR
Italy	UNI
Argentina	IRAM
Australia & New Zealand	AS
Brazil	ABNT
Netherlands	NEN
Spain	ITC

C	
OUTLET ASSEMBLY	INSCRIBE
1/4" F.NPT	4FB
1/4" Compression S/S	CS4

* For carbon dioxide and nitrous oxide service, it is strongly recommended to use electrically heated regulators. Should flow of carbon dioxide or nitrous oxide exceed 35 SCFH, regulator will freeze up and warranty will be null & void.

Dimensions

Approximate dimensions



Specifications	
Maximum Inlet Pressure	3000 PSIG [207 barg]
Flow Coefficient	$C_v = 0.37^*$
Operating Temperature	-40° F to 140° F [-40°C to 60°C]
Gauge Diameter	2.5" [64 mm] dial

*When utilizing liquid cylinders (for gas withdrawal), the flow of this regulator can be limited by the vaporizing capacity of the liquid cylinder. Flow will be limited to 350 scfh for most gases with the exception of CO₂ which is 100scfh.

Materials	
Regulator	
Body	Chrome Plated Brass
Bonnet	Chrome Plated Brass
Diaphragm	302 Stainless Steel
Nozzle	Brass
Seat and Seals	PTFE Teflon
Filter	Nickel-plated Sintered Bronze - 10 micron
Seat Return Spring	PH 17-7 Stainless Steel
Adjusting Screw	Brass

Flow data

