



HLB Series High Purity, Single-Stage, Chrome-Plated Brass, Line Regulators

SPECIFICATION

Applications

Non-corrosive gases

- Brass body

Medium flow applications

- Cv of 0.17

Recommended for gas purity up to Grade 5.0 (99.999% pure)

- Diffusion resistant diaphragm in a forged body regulator (inboard leak rate 1×10^{-8})

For pipelines

- Mounted on the pipeline, with delivery pressure gauge (no inlet gauge)



Key Features

Stainless steel diaphragm

- Eliminates “off-gassing” associated with neoprene diaphragm

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

Forged brass body

- Minimizes diffusion of air into regulator thus maintaining gas purity

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

HLB
A
B
C
D

Part Number Matrix - HLB

A	
GAS	INSCRIBE
Air - compressed	CGA 346
Argon	CGA 580
Argon mix	CGA 580
Carbon dioxide*	CGA 320
Helium	CGA 580
Hydrogen	CGA 350
Argon/methane	CGA 350
Nitrogen	CGA 580
Air - industrial	CGA 590
Nitrous oxide*	CGA 326
Oxygen	CGA 540
Other gas: provide CGA number	

B	
DELIVERY PRESSURE	INSCRIBE
1-15 psi (0-30 psi gauge)	15
5-50 psi (0-100 psi gauge)	50
30-125 psi (0-200 psi gauge)	125
50-250 psi (0-400 psi gauge)	250

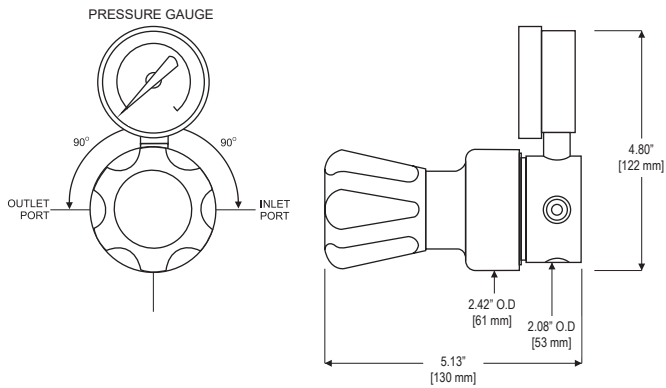
C	
OUTLET ASSEMBLY	INSCRIBE
1/4" F.NPT	4FB
1/4" M.NPT	4MB
Diaphragm Valve	DVB
Needle Valve	NVB
1/8" Compression Brass	CB2
1/4" Compression Brass	CB4

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

* 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.

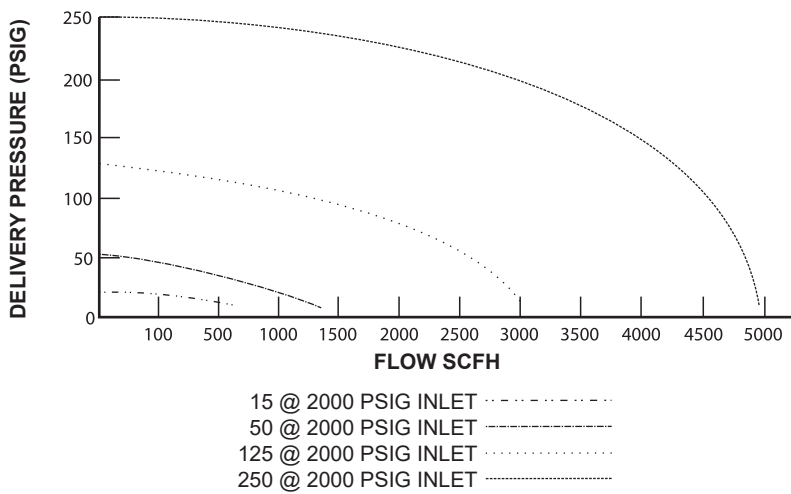
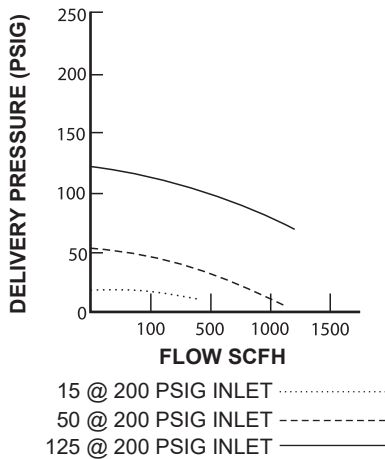
Dimensions

Approximate dimensions



Specifications	
Maximum Inlet Pressure	3000 psig [207 barg]
Flow Coefficient	$C_v = 0.17$
Operating Temperature	-40°F to 140°F [-40°C to 60°C]
Gauge Diameter	2" [51 mm] dial
Delivery Pressure	See Part Number Matrix

Flow data



Materials	
Regulator	
Body	Chrome-plated Forged Brass
Bonnet	Chrome-plated Die Cast
Diaphragm	302 Stainless Steel
Nozzle	Brass
Seat and Seals	PTFE Teflon
Filter	Nickel-plated Sintered Bronze - 10 micron
Seat Return Spring	PH 17 Stainless Steel
Adjusting Knob	ABS Plastic