



## FLS Series High Flow, High Purity, Single Gauge Stainless Steel Line Regulator

### SPECIFICATION

### Applications

**Non-corrosive and corrosive gases**

- Stainless Steel body

**High flow applications**

- Cv of 1.0

**Slight rise in delivery pressure is acceptable as pipeline pressure goes down**

- Single stage regulator

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

- Metal to metal diaphragm to body in a bar stock body regulator (inboard leak rate  $1 \times 10^{-8}$ )

**Versatile enough to use on both pipelines and cylinders**

- Eight functional body ports, allowing for a wide selection of inlet/outlet configurations, including an auxiliary HP gauge which can be used as a liquid cylinder regulator
- Mounted on the pipeline, with delivery pressure gauge (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**

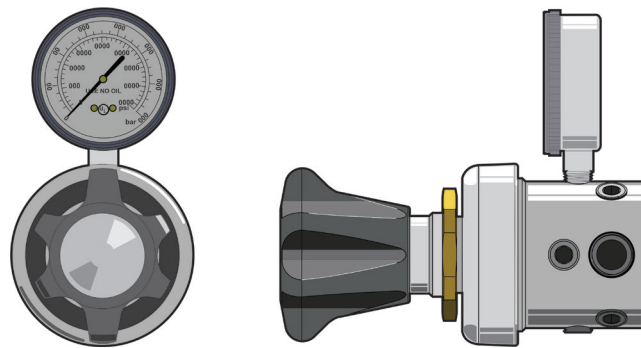
- Maintains regulator integrity and reduces maintenance

**Stainless Steel bar stock body**

- Minimizes diffusion of air into regulator thus maintaining gas purity

**Seat assembly with built-in filter**

- Traps foreign matter thus extending regulator life and reduces maintenance



### Ordering Information



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	

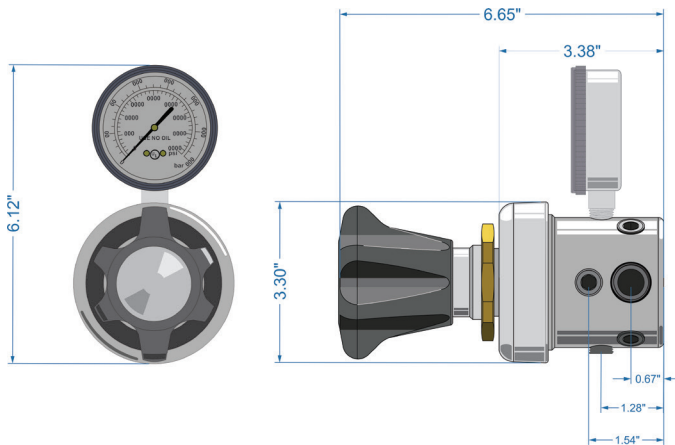
B	
DELIVERY PRESSURE	INSCRIBE
1-15 psi (0-30 psi gauge)	15
5-50 psi (0-100 psi gauge)	50
30-125 psi (0-200 psi gauge)	125
50-250 psi (0-400 psi gauge)	250
100-500 psi (0-1000 psi gauge)	500
C	
INLET ASSEMBLY	INSCRIBE
1/2" F.NPT	8FS
D	
OUTLET ASSEMBLY	INSCRIBE
1/2" F.NPT	8FS

E	
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

<b>Maximum Inlet Pressure</b>	500 psig [34.5 barg]
<b>Flow Coefficient</b>	Cv = 1.0
<b>Operating Temperature</b>	-40° F to 140° F [-40°C to 60°C]
<b>Gauge Diameter</b>	2.5" [ 64 mm] dial
<b>Delivery Pressures and Related Gauges</b>	See Part Number Matrix

## Materials

Regulator	
<b>Body</b>	Stainless Steel Bar Stock
<b>Bonnet</b>	Chrome-Plated Brass Bar Stock
<b>Diaphragm</b>	PH 17-7 Stainless Steel
<b>Nozzle</b>	Stainless Steel
<b>Seat and Seals</b>	PTFE Teflon
<b>Filter</b>	Stainless Steel (Sintered) - 10 micron
<b>Seat Return Spring</b>	PH 17-7 Stainless Steel
<b>Adjusting Knob</b>	ABS Plastic

## Flow Data

