



XPB Series High Delivery Pressure, Single Stage, Brass Cylinder Regulators

SPECIFICATION

Applications

Non-corrosive gases

- Brass body

Low flow applications

- Cv of 0.08

Slight rise in delivery pressure is acceptable as cylinder pressure goes down

- Single stage regulator

Designed to operate on high pressure cylinder up to 7500 PSIG [517 BARG]

- Urethane diaphragm (neoprene for oxygen)

For gas cylinders

- Directly mounted to the cylinder valve with related gas cylinder nut and nipple and inlet gauge

Key Features

Urethane or neoprene diaphragm

- Permits accurate delivery pressure settings

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

Brass 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



Part Number Matrix - XPB

A			
GAS	3000 psi Max. Inlet INSCRIBE	5500 psi Max. Inlet INSCRIBE	7500 psi Max. Inlet INSCRIBE
Air- compressed	CGA 346	CGA 347	-
Argon	CGA 580	CGA 680	CGA 677
Argon mix	CGA 580	CGA 680	CGA 677
Helium	CGA 580	CGA 680	CGA 677
Hydrogen/methane	CGA 350	CGA 695	-
Nitrogen	CGA 580	CGA 680	CGA 677
Air - industrial	CGA 590	-	-
Oxygen	CGA 540	-	-
Other gas: provide CGA number			

B	
DELIVERY PRESSURE	INSCRIBE
100-1500 PSI [6.9-103 BAR] (0-3000 PSI GAUGE)	1500
250-2500 PSI [17.2-172 BAR] (0-4000 PSI GAUGE)	2500
300-3000 PSI [20.7-207 BAR] (0-4000 PSI GAUGE)	3000
500-4500 PSI [34.5-310 BAR] (0-6000 PSI GAUGE)	4500
1000-6000 PSI [69-414 BAR] (0-10000 PSI GAUGE)	6000

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

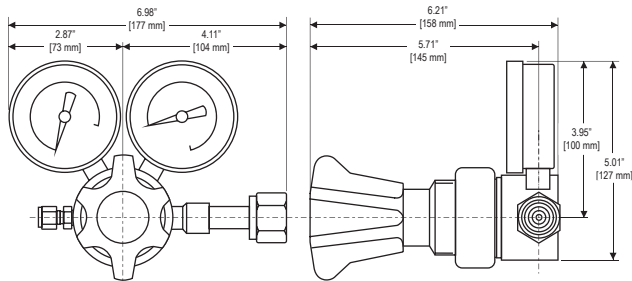
D	
OPTIONS	INSCRIBE
Panel Mounting Nut	PMN

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

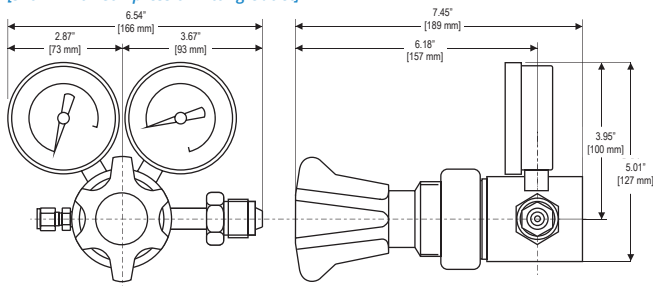
Dimensions

Approximate dimensions

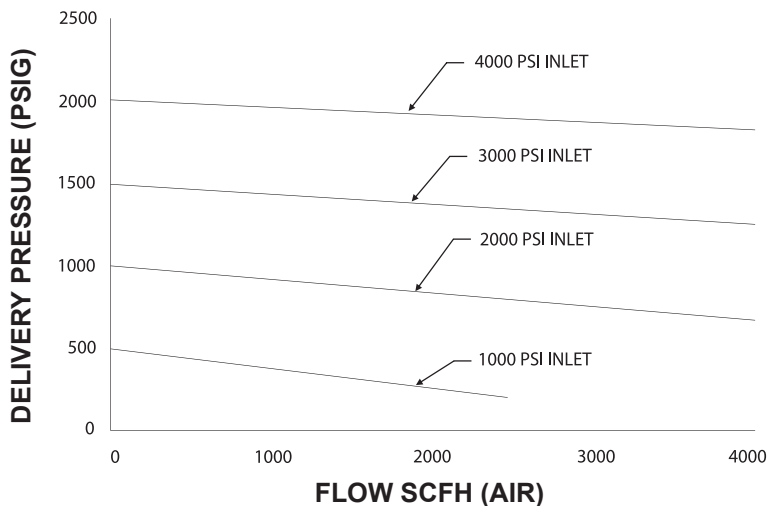
Non-venting models
[shown with Compression Fitting Outlet]



Self-venting models
[shown with Compression Fitting Outlet]



Flow Data



Specifications

Maximum Inlet Pressure	See Part Number Matrix
Flow Coefficient	Cv = 0.08
Operating Temperature	-40° F to 140° F [-40°C to 60°C]
Gauge Diameter	2.5" [64 mm] dial
Inlet Gauge Range	0-4000 psig [0-276 barg]
Delivery Pressure	See Part Number Matrix
Weight	
Non-venting Regulator	5.8 lbs [2.6 kg]
Self-venting Regulator	7.0 lbs [3.2 kg]
Pressure Rise	3.3 psi per 100 psi
Self-venting Models are mounted with one of the following cylinder inlet connections	CGA 346 CGA 347 CGA 580 CGA 590 CGA 677 CGA 680

Materials

Regulator	
Body	Brass Bar Stock
Bonnet	Brass Bar Stock
Diaphragm	Urethane (Oxygen is neoprene)
Nozzle	Brass
Seat	PTFE (Kel-FTM)
Filter	Nickel-plated Sintered Bronze - 10 micron
Seat Return Spring	PH 17-7 Stainless Steel
Adjusting Knob	ABS Plastic