

Ultra High Purity, Two Stage, Brass Bar Stock Cylinder Regulator

APPLICATIONS

☒	Inert Gases
☒	Oxidizing Gases
☒	Flammable Gases
☐	Corrosive Gases
☒	Liquid Cylinder (Gas Delivery)
☐	Cryogenic Liquid Delivery
☒	General Purpose
☒	High Purity
☒	Ultra High Purity

Key Features

Part Valve Technology & Design
Ease of maintenance and ease of cleaning
Tamper-proof self-reseating internal valve
Maintains regulator integrity and reduces maintenance
Easy panel mounting
Front or Back (panel mounting ring optional)
Inlet Assembly with built-in filter
Traps foreign matters thus extending regulator life and reduces maintenance



ON THE WEB

☒	Sell Sheet
☒	Technical Brochure
☐	Engineering Specification
☒	Instruction Manual
☐	Typical Installation Drawing

Applications

Constant delivery pressure regardless of cylinder pressure
Recommended for Gas purity up to Grade 5.5 (99.9995% Pure)
Bar stock body regulator (inboard leak rate 1×10^{-8} atm-cc/sec of He)
Directly mounted to the cylinder valve with gas related nut & nipple (IS-3224-2002/1979 / CGA / BS)

Ordering Information

MOC	Inscribe	Max. Delivery Pressure (Pressure Gauge Range)	Inscribe	Gas Service	Inscribe
Brass Chromeplated	BC-02	1.0 bar (2.1 bar)	07-4221	Oxygen	611
Brass Nickel Plated	BN-02	1.6 bar (2.1 bar)	07-4222	Argon / Helium / Nitrogen	612
		1.5 bar (2.1 bar)	07-4622	Hydrogen / Acetylene	613
		For Acetylene		Ethylene Oxide	615
		5.5 bar (7.0 bar)	07-4244	Carbon Dioxide	616
		7.0 bar (10 bar)	07-4254H	Nitrous Oxide	620
		10.0 bar (16 bar)	15-4264H	Zero Air	624
		12.0 bar (16 bar)	15-4265	Any CGA / BS Connection	No.
		15.0 bar (28 bar)	15-4276	Other (Mention Gas Service)	625
		20.0 bar (28 bar)	25-4276H		
		25.0 bar (40 bar)	25-4287		

Optional Accessories	Inscribe
Diaphragm Packless Valve	FCB
Needle Valve	NSB
Heater at Inlet	HHH
Panel Mounting Ring	PMR
Captured Vent Device	CVD
Tee Purge at Inlet	TPI
Cross Purge at Inlet	CPI
Safety Valve at Low Pressure Side	SVL
Safety Valve at High & Low Pressure Side	SVHL

Outlet Connection	Inscribe
1/4" NPT (Female) Port	00
1/4" NPT (Male)	01
1/8" Compression (Imported / Indigenous)	06 / 06A
1/4" Compression (Imported / Indigenous)	07 / 07A
6 mm Compression (Imported / Indigenous)	08 / 08A
3/8" Compression (Imported / Indigenous)	09 / 09A
1/2" Compression (Imported / Indigenous)	10 / 10A
12 mm Compression (Imported / Indigenous)	11 / 11A
4 mm Hose barb (RH / LH)	21R / 21L
6 mm Hose barb (RH / LH)	22R / 22L
8 mm Hose Barb (RH / LH)	23R / 23L
Pushfit Connection for 4 mm PU Tube	4MMPU
Pushfit Connection for 6 mm PU Tube	6MMPU
Other (Mention at end of Code)	25

*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 15 SLPM, regulator will be freeze up and warranty will be null and void.

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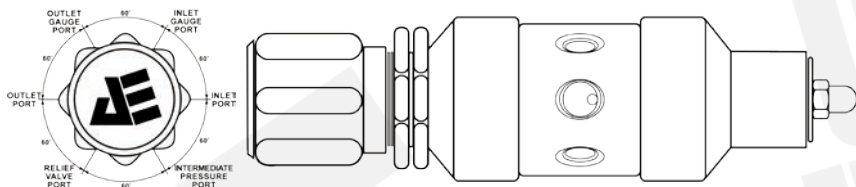
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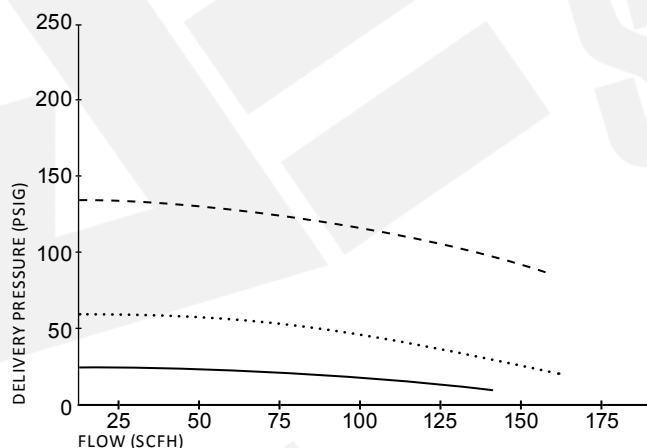
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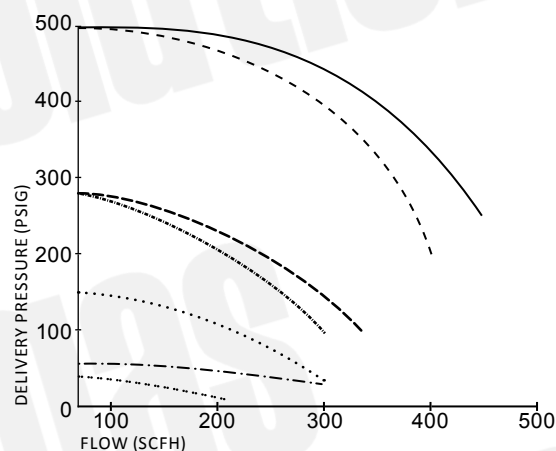
Specifications

» Maximum Inlet Pressure	210 Bar / 3000 Psig
» Flow Coefficient	0.06
» Operating Temperature	-40° C to 60° C
» Gauge Diameter	2" Dial
» Inlet Gauge Range	See Part Number Matrix
» Delivery Pressures & Related Gauges	See Part Number Matrix

Flow Data



15 PSIG Outlet @ 200 PSIG Inlet —————
 50 PSIG Outlet @ 200 PSIG Inlet
 125 PSIG Outlet @ 200 PSIG Inlet - - - - -



15 PSIG Outlet @ 2000 PSIG Inlet
 50 PSIG Outlet @ 2000 PSIG Inlet - - - - -
 125 PSIG Outlet @ 2000 PSIG Inlet
 250 PSIG Outlet @ 350 PSIG Inlet
 250 PSIG Outlet @ 2000 PSIG Inlet - - - - -
 500 PSIG Outlet @ 600 PSIG Inlet - - - - -
 500 PSIG Outlet @ 2000 PSIG Inlet —————

Materials

<i>Regulator</i>	
Body	Brass Bar Stock
Bonnet	Forged Brass
Diaphragm	316 L Stainless Steel
Valve Nozzle	High Tensile Brass
Valve Seat	TEFZEL / PCTFE
Filter	10 Micron - Sintered
Adjusting Knob	ABS Plastic

Diaphragm Valve (If Selected)

Body	Brass
Diaphragm	316 L Stainless Steel
Seat	Nylon 6,6 / PCTFE
Knob	ABS Plastic
Inlet Connection	Brass
Outlet Connection	Brass

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