

## Ultra High Purity, Single Stage, Stainless Steel Barstock Cylinder Regulator

### APPLICATIONS

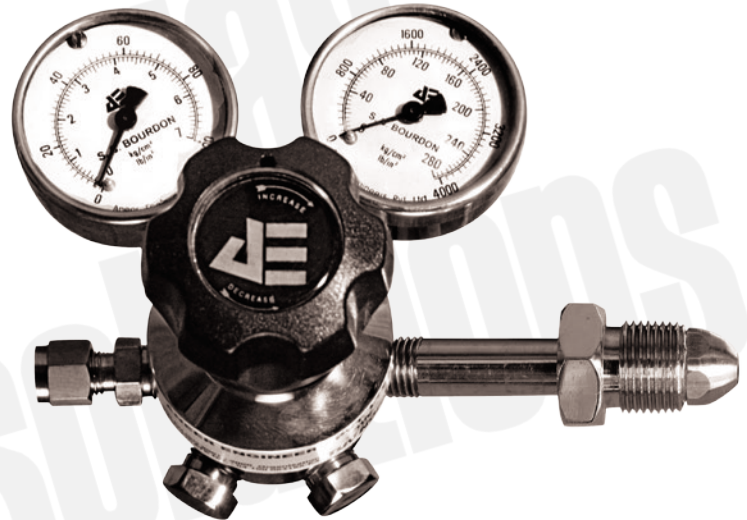
- Inert Gases
- Oxidizing Gases
- Flammable Gases
- Corrosive Gases
- Liquid Cylinder (Gas Delivery)
- Cryogenic Liquid Delivery
- General Purpose
- High Purity
- Ultra High Purity

### ON THE WEB

- Sell Sheet
- Technical Brochure
- Engineering Specification
- Instruction Manual
- Typical Installation Drawing

### 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



### Applications

- Slight rise in delivery pressure is not an issue as cylinder pressure goes down or for Liquefied Gas Service
- Recommended for Gas purity up to Grade 5.5 (99.9995% Pure)
- Bar stock body regulator (inboard leak rate  $1 \times 10^{-8}$  atm-cc/sec of He)
- Directly mounted to the cylinder valve with gas related nut & nipple (IS-3224-2002/1979 / CGA / BS)

### Ordering Information



Optional Accessories	Inscribe
Diaphragm Packless Valve	FC
Needle Valve	NS
Heater at Inlet	HH
Panel Mounting Ring	PM
Captured Vent Device	CV
Tee Purge at Inlet	TP
Cross Purge at Inlet	CP
Safety Valve at Low Pressure Side	SVL
Flashback Arrestor at Outlet	FBA

Outlet Connection	Inscribe
1/4" NPT (Female) Port	00
1/4" NPT (Male)	01
1/8" Compression (Imported / Indigenous)	02 / 02A
1/4" Compression (Imported / Indigenous)	03 / 03A
6 mm Compression (Imported / Indigenous)	04 / 04A
3/8" Compression (Imported / Indigenous)	05 / 05A
1/2" Compression (Imported / Indigenous)	12 / 12A
12 mm Compression (Imported / Indigenous)	13 / 13A
4 mm Hose barb (RH / LH)	18R / 18L
6 mm Hose barb (RH / LH)	19R / 19L
8 mm Hose Barb (RH / LH)	20R / 20L
Pushfit Connection for 4 mm PU Tube	4MMPU
Pushfit Connection for 6 mm PU Tube	6MMPU
Other (Mention at end of Code)	25

Max. Delivery Pressure (Pressure Gauge Range)	Inscribe
1.0 bar (2.1 bar)	07-2121
1.6 bar (2.1 bar)	07-2122
1.5 bar (2.1 bar) For Acetylene	07-2622
5.5 bar (7.0 bar)	07-2144
7.0 bar (10 bar)	07-2154H
10.0 bar (16 bar)	15-2164H
12.0 bar (16 bar)	15-2165
15.0 bar (25 bar)	15-2176
20.0 bar (25 bar)	25-2176H
25.0 bar (40 bar)	25-2187

Gas Service	Inscribe
Oxygen (Not Recommended)	611
Argon / Helium / Nitrogen	612
Hydrogen / Acetylene	613
SF <sub>6</sub>	614
Ethylene Oxide	615
Carbon Dioxide	616
Ammonia	617
Nitrous Oxide	620
Zero Air	624
Any CGA / BS Connection	No.
Other (Mention Gas Service)	625

\*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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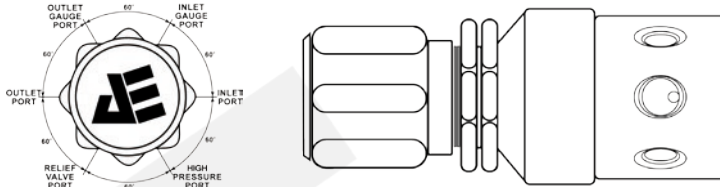
## Aneer Engineers Pvt. Ltd.

DIN EN ISO 9001 : 2008 Organisation

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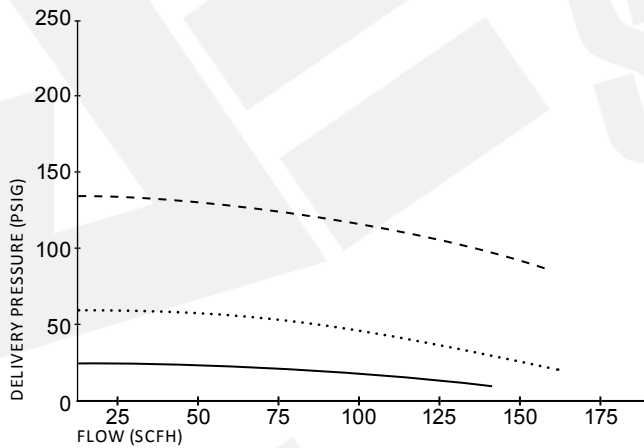
### Orientation



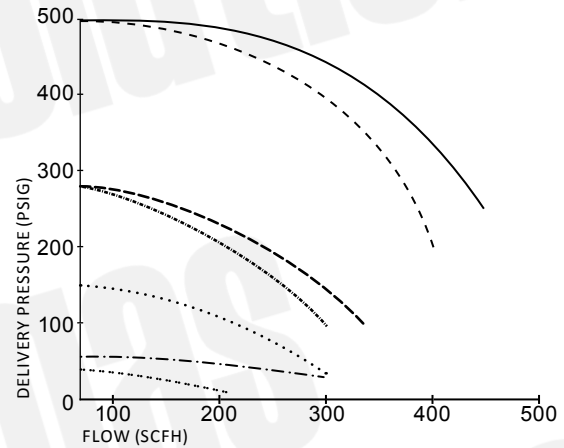
### Specifications

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

### 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	316 Stainless Steel Barstock
Bonnet	316 Stainless Steel
Diaphragm	316 L Stainless Steel
Valve Nozzle	316 Stainless Steel
Valve Seat	TEFZEL / PCTFE
Filter	10 Micron - Sintered
Adjusting Knob	ABS Plastic

<i>Diaphragm Valve (If Selected)</i>	
Body	316 Stainless Steel
Diaphragm	316 L Stainless Steel
Seat	Nylon 6,6 / PCTFE
Knob	ABS Plastic
Inlet Connection	316 Stainless Steel
Outlet Connection	316 Stainless Steel

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