

# HP 743

High Purity - Stainless Steel Barstock Regulator



Model HP 743-125-000-E shown

Model HP 743 is a stainless steel pipeline regulator for pipeline and other applications up to 3000 PSIG inlet pressure. The Model HP 743 is suitable for:

- Corrosive gas applications
- High purity gas applications
- Research sample systems gases
- Process analyzer gases
- Gas chromatography
- EPA protocol gases
- Laser gas systems
- Emission monitoring systems

**Recommended for corrosive gases or purity levels of Grade 6.0 (99.9999) and higher.**

## FEATURES

- 1 11/16" 316L stainless steel diaphragm eliminates contamination from diffusion or outgassing
- One piece encapsulated seat design includes a sintered filter to protect the seat from particulate contamination
- Chrome plated bonnet, 316L body and fittings
- 2" stainless steel single scale gauge (psi/bar)
- Designed to 1 x 10<sup>-9</sup> cc/sec. inboard helium leak rate to maintain gas purity levels
- Maximum inlet 3000 PSIG
- Front or back panel mountable

## RELATED OPTIONS

Front Panel Mount Kit P/N: 9100871  
Wall mounting Bracket P/N: 9101242



## MATERIALS

|                           |                                      |
|---------------------------|--------------------------------------|
| <b>Body</b>               | 316L Stainless Steel Barstock        |
| <b>Bonnet</b>             | Chrome Plated Brass Barstock         |
| <b>Diaphragm</b>          | 316L Stainless Steel                 |
| <b>Nozzle</b>             | 316L Stainless Steel                 |
| <b>Seat</b>               | PTFE Teflon                          |
| <b>Seals</b>              | PTFE Teflon                          |
| <b>Filter</b>             | Sintered Stainless Steel - 10 Micron |
| <b>Seat Return Spring</b> | 316L Stainless Steel                 |
| <b>Adjusting Knob</b>     | ABS Plastic                          |

**SHIPS  
24  
TO  
48hr**

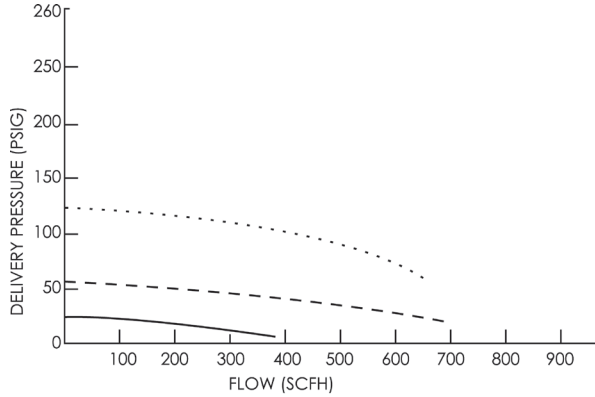
## HP 743 ORDERING INFORMATION

| HP 743    | -                 | XXX                         | -               | XXX                       | -                           | XX      | - | XXXX |
|-----------|-------------------|-----------------------------|-----------------|---------------------------|-----------------------------|---------|---|------|
| MODEL NO. | DELIVERY PRESSURE |                             | INLET           | ACCESSORIES               |                             | OPTIONS |   |      |
|           | DELIVERY          | (OUTLET GAUGE)              |                 |                           |                             |         |   |      |
| HP 743    | 0-15 PSIG         | (30" Hg Vac-30 psi/2 bar)   | 000 (1/4" FNPT) | A) 1/4" FNPT Diaph. Valve | 2) He Leak Cert. (Inboard)  |         |   |      |
|           | 0-50 PSIG         | (30" Hg Vac-100 psi/7 bar)  | 001 (1/4" MNPT) | B) 1/4" MNPT Nipple       | 3) No Gauge                 |         |   |      |
|           | 0-125 PSIG        | (30" Hg Vac-200 psi/14 bar) |                 | C) 1/4" FNPT Port         | 4) With Relief Valve        |         |   |      |
|           | 0-250 PSIG        | (400 psi/28 bar)            |                 | D) 1/4" Tube Fitting      | 5) He Leak Cert. (Outboard) |         |   |      |
|           | 0-500 PSIG        | (1000 psi/70 bar)           |                 | E) 1/8" Tube Fitting      |                             |         |   |      |

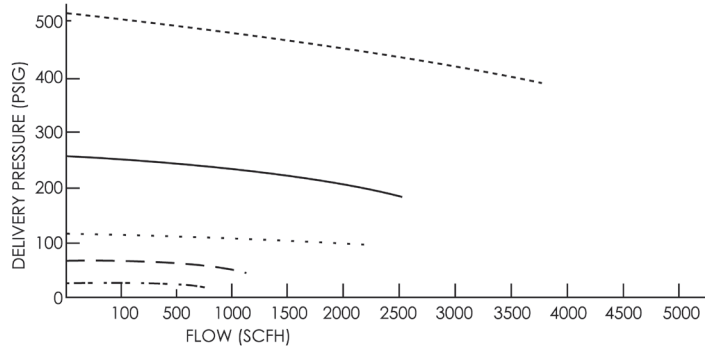
NOTE: Regulators with delivery pressure above 15 PSIG should not be used with acetylene.

# HP 743 TECHNICAL SPECIFICATIONS

## FLOW DATA



15 @ 200 PSIG INLET ———  
 50 @ 200 PSIG INLET - - - -  
 125 @ 200 PSIG INLET ······



15 @ 2000 PSIG INLET - · - · - ·  
 50 @ 2000 PSIG INLET - - - -  
 125 @ 2000 PSIG INLET ······  
 250 @ 2000 PSIG INLET ———  
 500 @ 2000 PSIG INLET - · - · - ·

## SPECIFICATIONS

- $C_v$ : .08
- Pressure Regulation: 1.8 PSIG/100 PSIG
- Weight: 2.68 lbs.

## DIMENSIONS

