# HP 701
## High purity - chrome plated brass regulator

Model HP 701 is a chrome plated single stage cylinder regulator with a stainless steel diaphragm for general laboratory use. The HP 701 can be used when a slight pressure rise from full to empty cylinder can be tolerated.


*Model shown with additional accessories to be ordered separately*

### APPLICATIONS:

- Non-corrosive gases
- Vacuum control
- Purging
- Pressure testing
- Blanketing

### FEATURES:

- **Recommended for gas purity up to grade 5.0 (99.999)**
- 302L stainless steel diaphragm eliminates contamination from diffusion or outgassing
- One-piece encapsulated seat design to protect seat from particulate contamination
- Chrome plated bonnet, body and fittings
- $1x10^{-8}$ mbar l/s He inboard helium leak rate to maintain gas purity levels
- Maximum inlet pressure 210 bar (3000 psig)

### TECHNICAL DATA:

| | |
|---|---|
| Type | Single stage |
| Purity | Up to 5.0 |
| Inlet pressure | Max. 210 bar (3000 psig) |
| Outlet pressure | 0-1/3,5/8,5/17 bar (15/50/125/250 psig) |
| Flow capacity | Cv = 0,17 |
| Oxygen use | Suitable |

### MATERIALS:

| | |
|---|---|
| Body | Chrome plated brass |
| Bonnet | Chrome plated die cast |
| Diaphragm | 302 stainless steel |
| Nozzle | Brass |
| Seat | PTFE Teflon* |
| Seals | PTFE Teflon* |
| Filter | Nickel-plated sintered bronze - 10 micron |
| Seat | PH-17 stainless steel |
| Adjusting Knob | ABS plastic |

### SPECIFICATIONS:

| | |
|---|---|
| Inlet / outlet ports | 1/4" FNPT |
| Weight | 1,6 kg |

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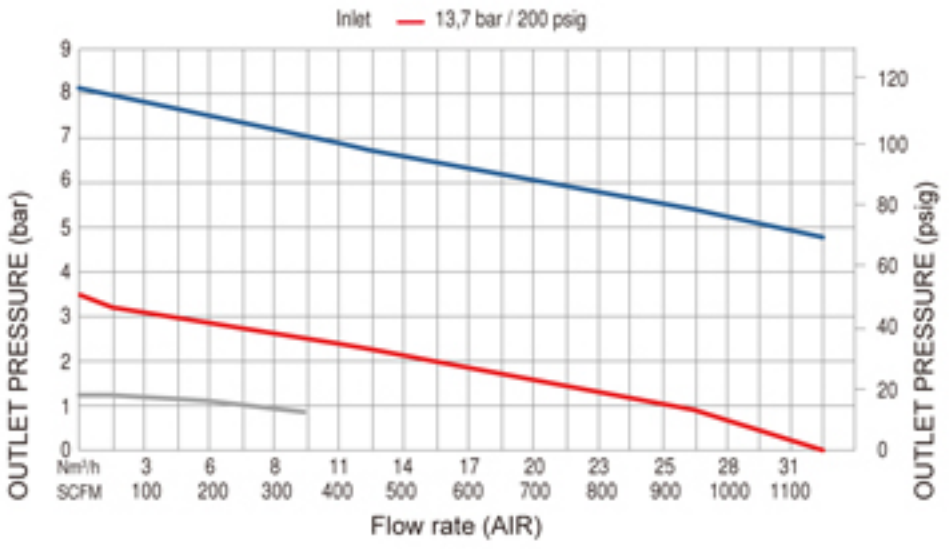
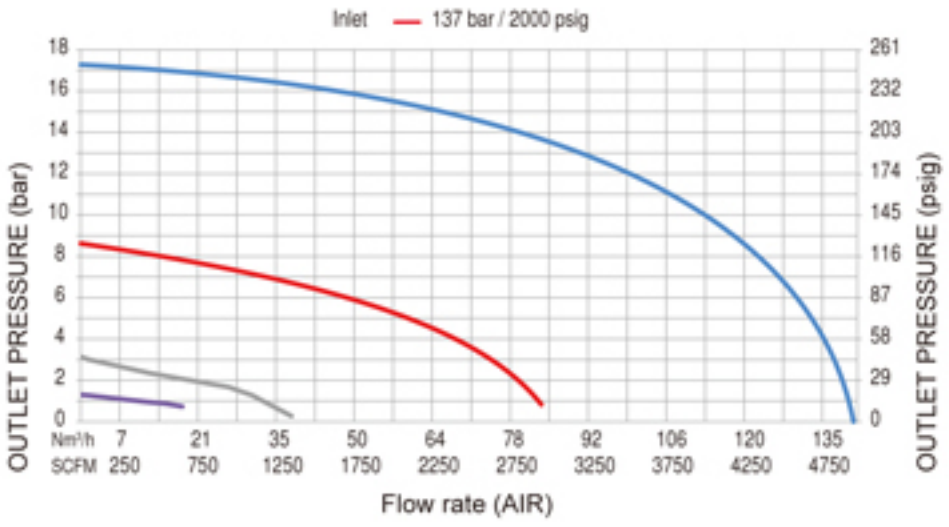
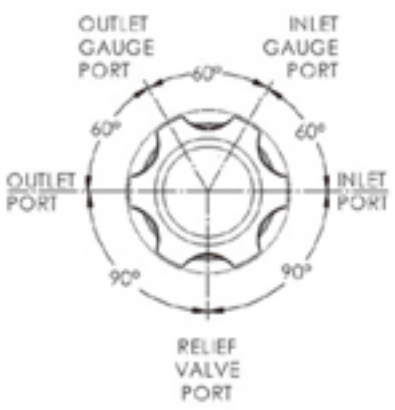
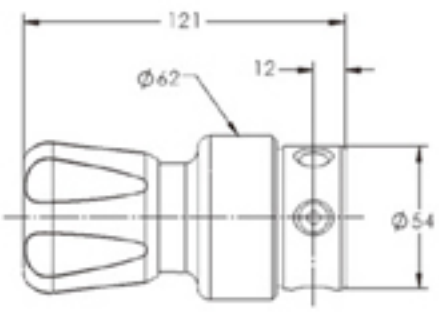
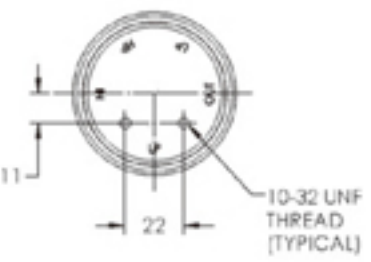
### FLOW CHART: HPI 701




### ORDERING INFORMATION:

| MODEL | INLET CONFIGURATION | OUTLET PRESSURE | | INLET CONNECTION | | OUTLET CONFIGURATION | | OPTIONS | | GAS TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| HP 701 | Right | 0 - 1 bar<br>0 - 15 psig | 015 | 1/4" FNPT | 000 | 1/4" FNPT | A | He leak cert. (inboard) | 2 | Please specify |
| | | 0 - 3,5 bar<br>0 - 50 psig | 050 | DIN 477 | | 1/4" FNPT diaph. valve | B | No gauges | 3 | |
| | | 0 - 8,5 bar<br>0 - 125 psig | 125 | CGA | | 1/4" MNPT nipple | C | With relief valve | 4 | |
| | | 0 - 17 bar<br>0 - 250 psig | 250 | AFNOR | | 1/4" tube fitting | D | He leak cert. (outboard) | 5 | |
| | | | | BS341 | | 1/8" tube fitting | E | 60 bar inlet gauge | 6 | |
| | | | | UNI | | 6 mm tube fitting | F | | | |
| | | | | NBN | | 8 mm tube fitting | G | | | |
| | | | | NEN 3268 | | | | | | |
| For example:<br>HP 701 | | | 015 | DIN 6 | | | BF | | 2 | Ar |