

## PRESSURE REGULATORS FOR NON-CORROSIVE GASES

Cylinder regulators

## LHPI 722-742

### HIGH PURITY TWO STAGE BARSTOCK REGULATOR

The LHPI 722-742 Model is a two-stage cylinder regulator available in chrome plated brass (LHPI 722) the or stainless steel (LHPI 742) barstock for pressure control of non-corrosive gases. Designed for constant delivery pressure from full to near empty cylinder conditions.

#### APPLICATIONS:

- High purity gas applications;
- Research sample systems gases;
- Gas chromatography;
- Calibration gas;
- Process analyzer gases;
- Emission monitoring systems;
- Laser application.

#### FEATURES:

- Recommended for non-corrosive gases purity levels up to grade 6.0 (99.9999);
- Metal steel diaphragm eliminates contamination from diffusion or outgassing;
- LHPI 742 - chrome plated body, bonnet and fittings;
- LHPI 742 - 316L stainless steel body, bonnet and fittings;
- 1x10<sup>-9</sup> mbar l/s He inboard helium leak rate to maintain gas purity levels;
- The 1/8" NPT thread on the bonnet venting for safety in 316L SS version;
- Maximum inlet pressure 300 bar (4350 psig);
- External relief valve standard;
- Tested for use with oxygen.

PURE GASES



#### MATERIALS

<b>Body, bonnet</b>	316L stainless steel barstock or chrome plated brass barstock
<b>Diaphragm</b>	316L stainless steel / Hastelloy® * C276
<b>Nozzle</b>	Brass / Stainless steel
<b>Seat</b>	PTFE Teflon**
<b>Seals O-ring</b>	PTFE Teflon**
<b>Filter</b>	Sintered Stainless steel or Sintered bronze 10micron (LHPI722)
<b>Adjust. Knob</b>	ABS plastic

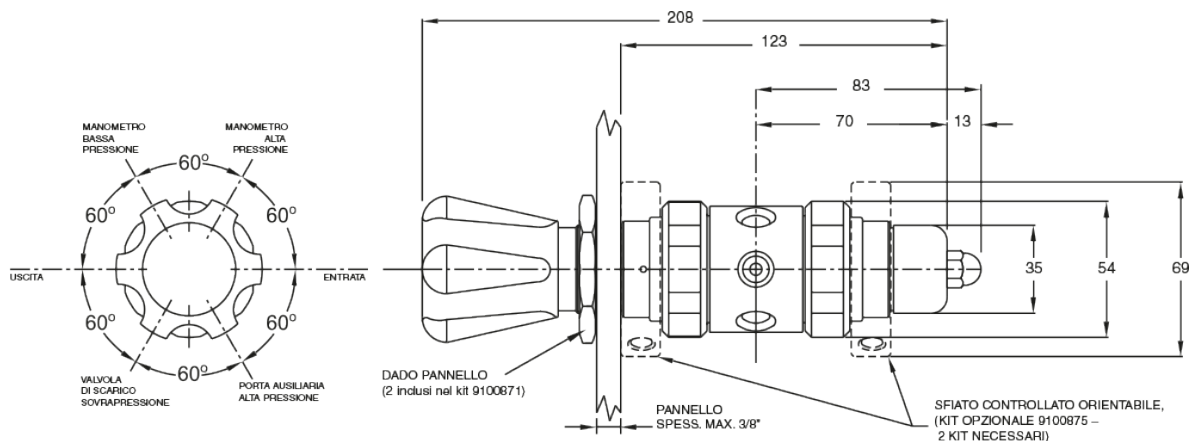
\*Hastelloy® is a registered trademark name of Haynes International, Inc

\*\* Teflon® is a registered trademark of The Chemours Company

#### TECHNICAL DATA

<b>Type</b>	Two-stage regulator
<b>Purity</b>	Up to 6.0
<b>Inlet pressure</b>	Max. 300 bar (4350 psi)
<b>Outlet pressure</b>	1/2/10/20/34 bar
<b>Flow capacity</b>	Cv = 0,06
<b>Oxygen use</b>	Suitable

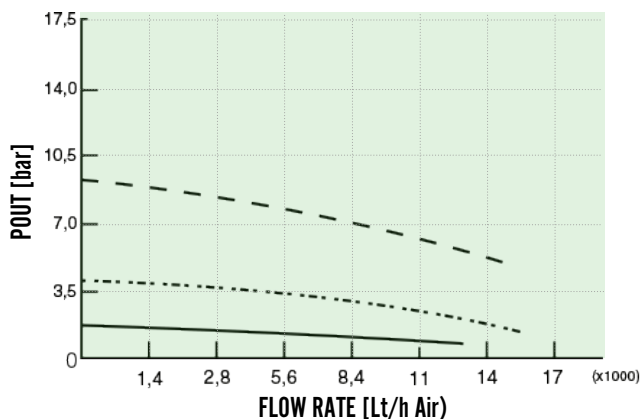
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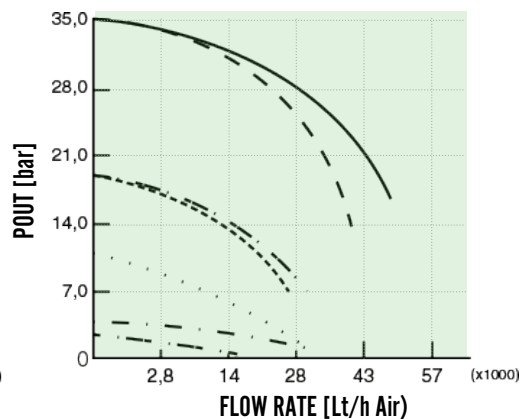
### SPECIFICATIONS

Inlet / outlet ports	to bottle according to UNI standard (other standards on request)
Outlet port	1/4" NPT-F
Weight	2 kg
Temperature range	-30°C to +74°C

### FLOW CHART



1,03 @ 14 BAR INGRESSO ————  
3,50 @ 14 BAR INGRESSO - - - - -  
8,60 @ 14 BAR INGRESSO - - - - -



1,03 @ 140 BAR INGRESSO - - - - -  
3,50 @ 140 BAR INGRESSO . - - - -  
8,60 @ 140 BAR INGRESSO . . . . .  
17,50 @ 24 BAR INGRESSO - - - - -  
17,50 @ 140 BAR INGRESSO - - - - -  
35,00 @ 40 BAR INGRESSO - - - - -  
35,00 @ 140 BAR INGRESSO ————