

## PRESSURE REGULATORS FOR NON-CORROSIVE GASES

Cylinder regulators

## LHPI 721-741

### HIGH PURITY SINGLE STAGE BARSTOCK REGULATOR

Model LHPI 721-741 is a single stage cylinder regulator available in chrome plated brass (LHPI 721) or stainless steel (LHPI 741) barstock for pressure control of non-corrosive gases. Designed for applications where a slight rise in delivery pressure, from full to empty cylinder, can be tolerated.

#### APPLICATIONS:

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

#### 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 721 - chrome plated body, bonnet and fittings;
- LHPI 741 - 316L stainless steel body, bonnet and fittings;
- 1x10<sup>-9</sup> mbar l/s He inboard helium leak rate to maintain gas purity levels;
- 6 ports flexible configuration, 3 high pressure and 3 low pressure;
- The 1/8" NPT thread on the bonnet venting for safety in 316L stainless steel version;
- Maximum inlet pressure 300 bar (4350 psig);
- Tested for use with oxygen.

PURE GASES



#### MATERIALS

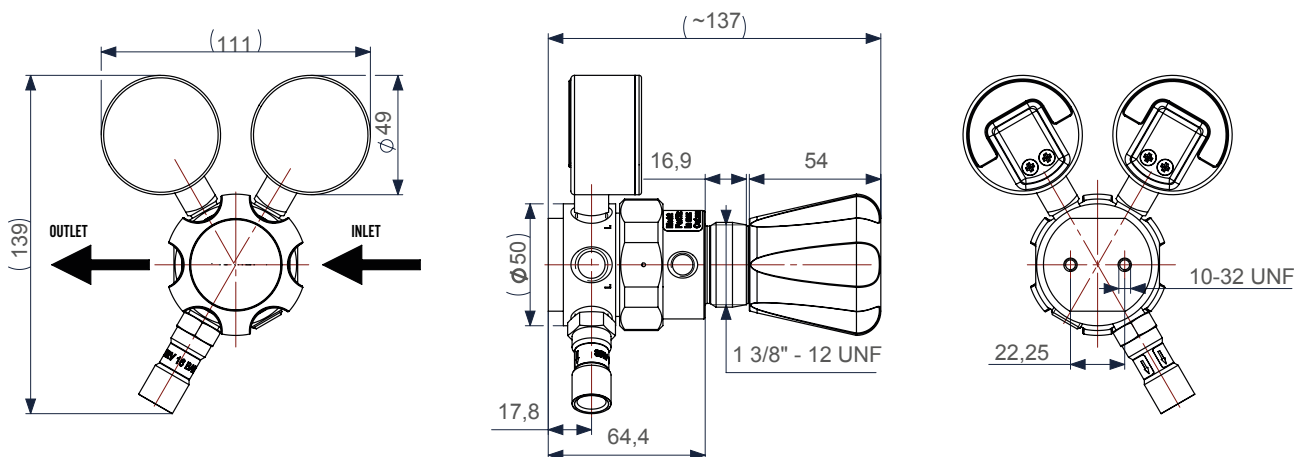
<b>Body, bonnet</b>	316L stainless steel barstock or chrome plated brass barstock
<b>Diaphragm</b>	316L stainless steel /Hastelloy® * C276 optional
<b>Nozzle</b>	316L stainless steel (LHPI 741) or brass (LHPI 721)
<b>Seat</b>	PTFE Teflon®
<b>Seals O-ring</b>	PTFE Teflon
<b>Filter</b>	Sintered Stainless steel or Sintered bronze 10micron
<b>Adjusting Knob</b>	ABS plastic

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

#### TECHNICAL DATA

<b>Type</b>	Single stage
<b>Purity</b>	Up to 6.0
<b>Inlet pressure</b>	Max. 300 bar (4350 psi)
<b>Outlet pressure</b>	0-1; 0-2; 0-4; 0-10; 0-20; 0-34 bar (15/29/58/145/290/500 psi)
<b>Flow capacity</b>	Cv = 0,07
<b>Oxygen use</b>	Suitable

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### SPECIFICATIONS

Inlet connection	to bottle according to UNI standard (other standards on request) - 1/4" NPT-F 1/4" BSP-F
Outlet connection	1/4" NPT-F Optional 1/4" BSP-F
Weight	1,3 kg
Temperature range	-30°C to +74°C

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FLOW CHART

