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## HPR-450 Series

Brass

### Two Stage Pressure Regulator

The HPR-450 series is a brass two stage pressure regulator recommended for use with high purity non-corrosive gases for analytical and process applications requiring precise, contaminant free pressure control. The two stage design yields a delivery pressure change of less than 0.05% with varying inlet pressure which minimizes the supply-pressure effect caused by decaying inlet pressure. Internal surface finish of body is better than 1.6µm with chrome plating as option which allows easier cleaning and lesser particle contamination.

#### TYPICAL APPLICATIONS

- Gas & liquid chromatography
- Zero & calibration gases
- Research laboratories
- High purity carrier gases
- Gas cylinder regulator assemblies
- Hydrocarbon service
- Cryogenic gases

#### OPTIONS

- Panel mount kit
- Relief Valve
- Captured Vent
- Self Venting
- Helium leak certification



#### FEATURES & SPECIFICATIONS

- Stainless Steel Diaphragm
- Standard 10 µm stainless steel filter at inlet of main valve assembly
- 1.6 µm internal surface finish as standard
- Cleaned for Oxygen service.
- Bubble tight shut-off
- Inlet pressure: 210 bar (3000 psi)
- Outlet range: 0 to 25 bar (360 psi)
- Supply pressure effect less than 0.05%
- Flow Coefficient: Cv 0.05
- Design Pressure: 1.5 times working pr.
- All connections: ¼" NPT (F)
- Seat: PTFE / PCTFE
- Max. Operating Temperature:  
PTFE - 66° C  
PCTFE - 80 ° C
- Inlet end connection: ¼" NPT (F)
- Outlet end connection: ¼" NPT (F)

NOTE: As a drive for continuous improvement of our products, 'Altair' reserves the right to change descriptions contained in this brochure without prior notice. Consult local distributor or factory for revisions and/or service related issues

Altair Gas Engineering Company

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HPR-450 Rev.00-0816

Made in  
INDIA

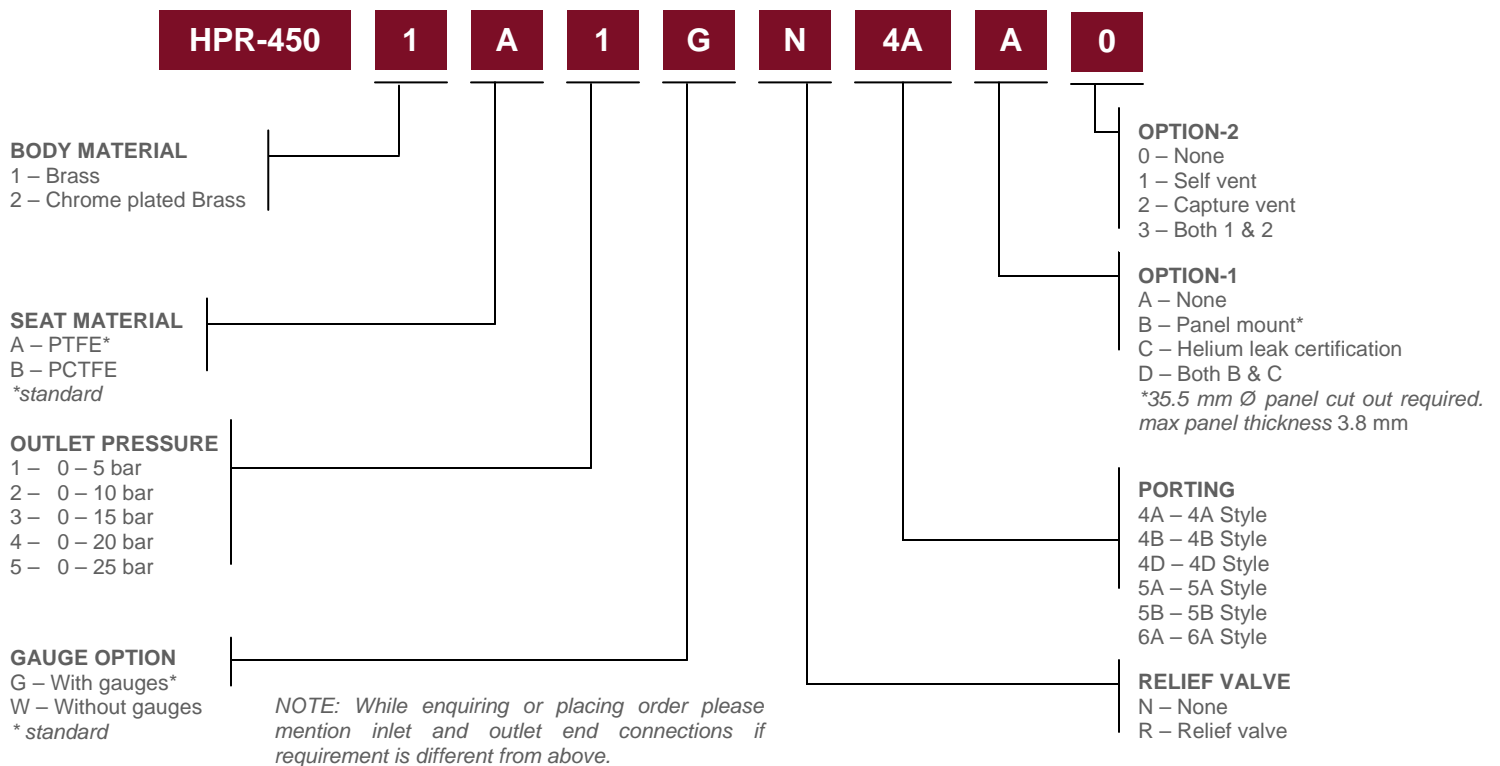




# HPR-450 Series

**Brass  
Two Stage Pressure Regulator**

## Ordering information



**ADVICE IS ALWAYS AVAILABLE ON:**

- System design, installation and commissioning
- Gas handling and control equipments
- Training on product handling and safety
- Engineering and equipment maintenance



**CLIENT LABELS ARE ALSO OFFERED SUBJECTED TO MINIMUM ORDER QUANTITY**

*Altair may suggest certain materials for certain applications. These suggestions are based on compatibility information provided by material suppliers on previous experience. However, Altair does not guarantee the material to be compatible with a specific media; this will be the sole responsibility of the user*

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