



Spec Master HPT620 Series

6.0 Purity Two Stage Nickel Plated Brass Barstock Piston
Cylinder Regulator



The Spec Master HPT620 Series two stage piston cylinder regulators are designed for primary pressure gas control of non-corrosive or toxic, high purity gases up to grade 6.0 purity (99.9999%), on applications where constant delivery pressure is required as the cylinder pressure decreases.

- **HPT621** Series | Two Stage Piston Cylinder Regulator, FKM Seal
- **HPT622** Series | Two Stage Piston Cylinder Regulator, EPDM Seal

★ FEATURES

- Six port configuration
- Front panel mounting capabilities
- Encapsulated seat design
- Low wetted surface area
- Full range of inlet and outlet fittings
- Base and side entry

📦 MATERIAL

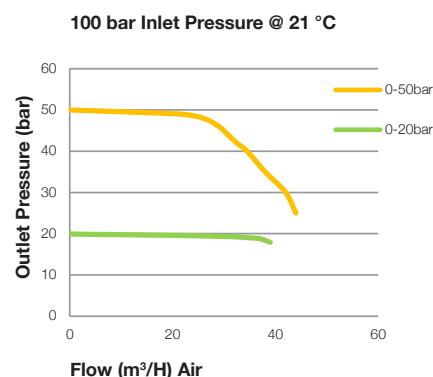
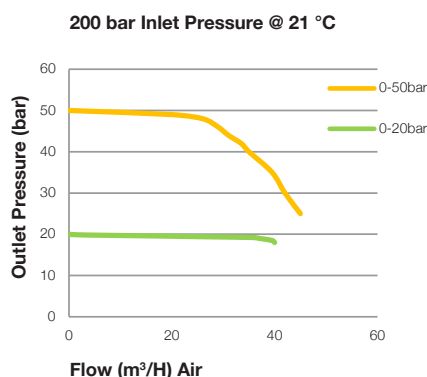
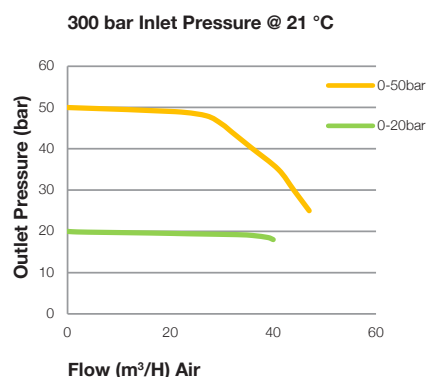
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|--------------|--------------------------------|
| ■ Body | Nickel Plated Brass Barstock |
| ■ Bonnet | Nickel Plated Brass Barstock |
| ■ Piston | Brass |
| ■ Seal | FKM / EPDM |
| ■ Valve Seat | PCTFE |
| ■ Filter | 10 Micron 316L Stainless Steel |

👍 SPECIFICATION

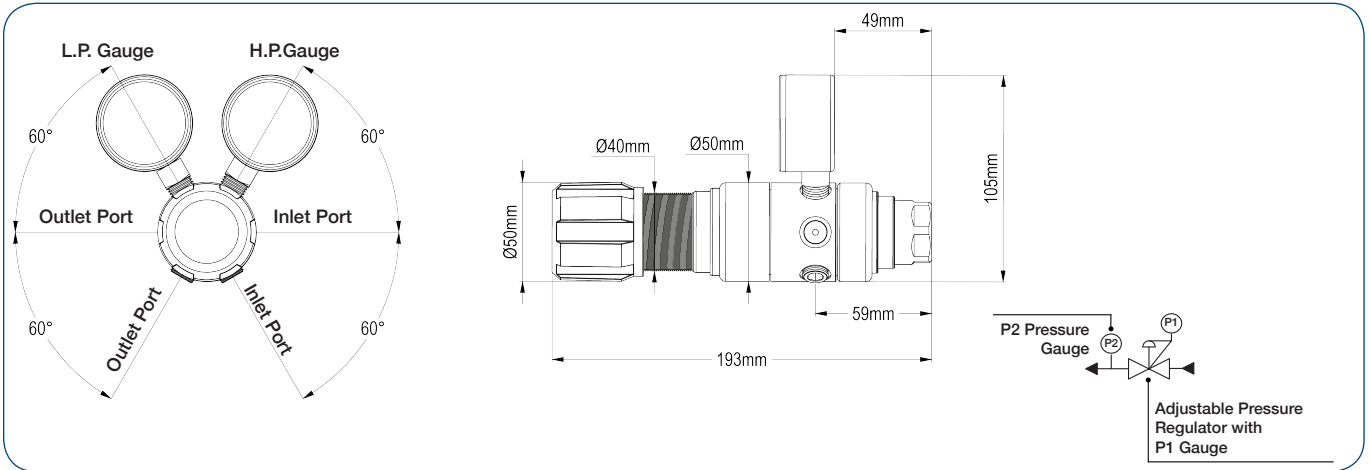
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|---------------------------|--|
| ■ Maximum Inlet Pressure | 60 bar (870 PSI) 300 bar (4350 PSI) * |
| ■ Delivery Pressure Range | 20 bar (300 PSI) 50 bar (725 PSI) |
| ■ Gauges | 50mm (2") Diameter |
| ■ Ports | 1/4" NPT Female |
| ■ Temperature Range | -20° C to +60° C (-4° F to +140° F) |
| ■ Flow Coefficient (Cv) | 0.079 |
| ■ Helium Leak Integrity | 1 x 10 ⁻⁹ mbar l/s |
| ■ Weight | 2.0 kg (4.4 lb) ** |

* Subject to cylinder connection – ** Cylinder connection not included

✓ FLOW PERFORMANCE



DRAWINGS



MODEL NO. SELECTOR GUIDE

Example for a Model No. for HPT620 Series

| HPT621- | 04- | 07- | 00- | 00- | 000- | 00- | A |
|--------------|--------------------------|---------------------------|----------------------|-----------------------|---|--|---|
| Product Type | Inlet Pressure Bar [PSI] | Outlet Pressure Bar [PSI] | Inlet Pressure Gauge | Outlet Pressure Gauge | Inlet/Cylinder Connection | Outlet Connection | Options |
| HPT621 | 02 60 [870] | 07 0 to 20 [300] | 00 No Gauge Fitted | 00 No Gauge Fitted | 000 1/4 NPT Female | 00 1/4 NPT Female | A No Options Selected |
| HPT622 | 04 300 [4350] | 10 0 to 50 [725] | 01 bar/PSI | 01 bar/PSI | 001 1/8 Stainless Steel Compression | 01 1/8 Stainless Steel Compression | B Regulator Tee Purge FKM |
| | | | 10 Plugged Port | 10 Plugged Port | 002 1/4 Stainless Steel Compression | 02 1/4 Stainless Steel Compression | C Regulator Tee Purge EPDM |
| | | | | | 003 6mm Stainless Steel Compression | 03 6mm Stainless Steel Compression | F Bonnet Vent Capture Kit |
| | | | | | 004 1/4 NPT Male | 04 1/4 NPT Male | G Helium Test Certificate |
| | | | | | 007 G3/8 BSP R/H Brass Male | 07 G3/8 BSP R/H, Brass, Male | K Certificate of Conformity (CoC) |
| | | | | | 008 G3/8 BSP L/H Brass Male | 08 G3/8 BSP L/H, Brass, Male | L Panel Mount Locking Nut Kit |
| | | | | | 010 BS341 No.3 | 09 Isolation Valve, 1/4 NPT Female, FKM Seal | P Calibration / Pressure Test Certificate |
| | | | | | 012 BS341 No.4 | 10 Isolation Valve, 1/4 NPT Female, EPDM Seal | X Special Instruction |
| | | | | | 015 BS341 No.8 | 11 Isolation Valve, 1/8 Stainless Steel Compression, FKM Seal | |
| | | | | | 030 DIN477 No.6 | 12 Isolation Valve, 1/8 Stainless Steel Compression, EPDM Seal | |
| | | | | | 033 DIN477 No.9 | 13 Isolation Valve, 1/4 Stainless Steel Compression, FKM Seal | |
| | | | | | 034 DIN477 No.10 | 14 Isolation Valve, 1/4 Stainless Steel Compression, EPDM Seal | |
| | | | | | 045 CGA320 | 15 Isolation Valve, 6mm Stainless Steel Compression, FKM Seal | |
| | | | | | 052 CGA540 | 16 Isolation Valve, 6mm Stainless Steel Compression, EPDM Seal | |
| | | | | | 053 CGA580 | 17 Isolation Valve, 1/4 NPT Male, FKM Seal | |
| | | | | | For our complete range of cylinder connections refer to 'Spec Master Cylinder Connections Data Sheet' | 18 Isolation Valve, 1/4 NPT Male, EPDM Seal | |
| | | | | | | 19 Isolation Valve, G3/8 BSP R/H Brass Male, FKM Seal | |
| | | | | | | 20 Isolation Valve, G3/8 BSP R/H Brass Male, EPDM Seal | |
| | | | | | | 21 Isolation Valve, G3/8 BSP L/H Brass Male, FKM Seal | |
| | | | | | | 22 Isolation Valve, G3/8 BSP L/H Brass Male, EPDM Seal | |