



Spec Master HPT620 Series

6.0 Purity Two Stage Nickel Plated Brass Barstock Piston
Cylinder Regulator

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

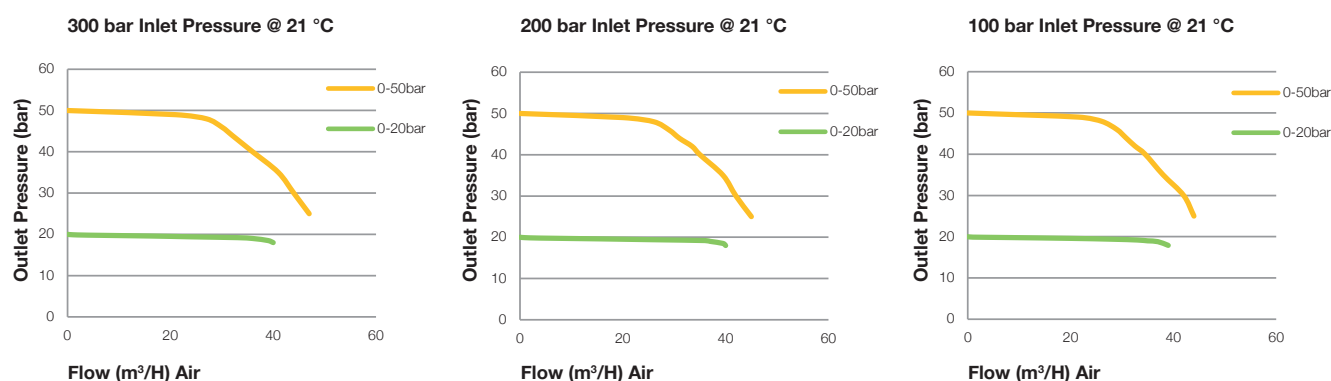
■ Body	Nickel Plated Brass Barstock
■ Bonnet	Nickel Plated Brass Barstock
■ Piston	Brass
■ Seal	FKM / EPDM
■ Valve Seat	PCTFE
■ Filter	10 Micron 316L Stainless Steel

👍 SPECIFICATION

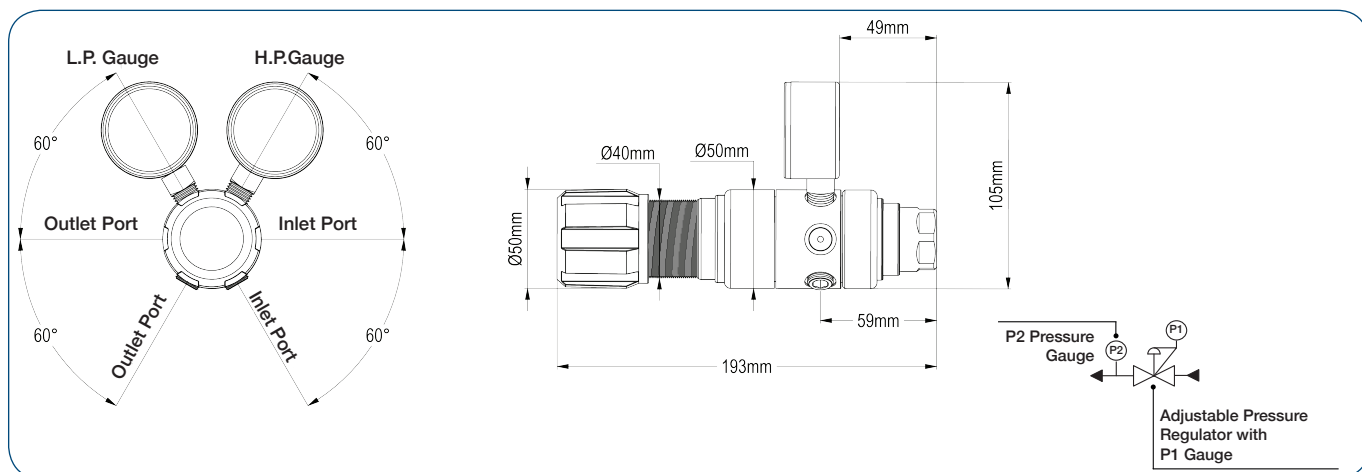
- **Maximum Inlet Pressure** 60 bar (870 PSI)
300 bar (4350 PSI) *
- **Delivery Pressure Range** 20 bar (300 PSI)
50 bar (725 PSI)
- **Gauges** 50mm (2") Diameter
- **Ports** 1/4" NPT Female
- **Temperature Range** -20° C to +60° C (-4° F to +140° F)
- **Helium Leak Integrity** 1 x 10⁻⁹ mbar l/s
- **Weight**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



CK Isotopes Ltd, Office 1&2, The Stables,
Newtown Grange Farm Business Park,
Desford Road, Newtown Unthank,
Leicestershire, LE9 9FL



Headoffice / Factory UK

Gas-Arc Group Limited
Vinces Road | Diss | Norfolk | IP22 4WW | UK