Gas Control Equipment

Tech Master GPS420 Series

4.5 Purity Single Stage Brass Barstock Piston Cylinder Regulator



The Tech Master GPS420 Series single stage piston cylinder regulators are designed for primary pressure gas control of non-corrosive or toxic, technical grade gases up to 4.5 purity (99.995%), on applications where slight pressure variation from decreasing cylinder pressure is acceptable.

- **GPS421** Series | Single Stage Piston Cylinder Regulator, FKM Seal
- **GPS422** Series | Single Stage Piston Cylinder Regulator, EPDM Seal

FEATURES

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

MATERIAL

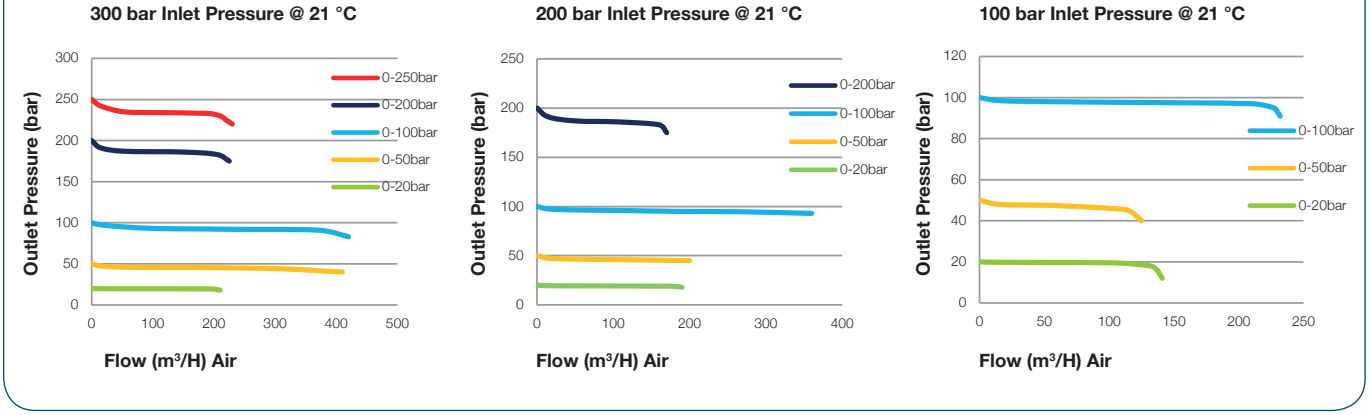
Body	Brass Barstock
Bonnet	Brass Barstock
Piston	Brass
Seal	FKM / EPDM
Valve Seat	Polyamide (Nylon®)
Filter	10 Micron 316L Stainless Steel

SPECIFICATION

Maximum Inlet Pressure	60 bar (870 PSI)
	300 bar (4350 PSI)*
Delivery Pressure Range	20 bar (300 PSI)
	50 bar (725 PSI)
	100 Bar (1450 PSI)
	200 bar (2900 PSI)
	250 bar (3630 PSI)
Gauges	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Weight	1.5 kg (3.3 lbs)**

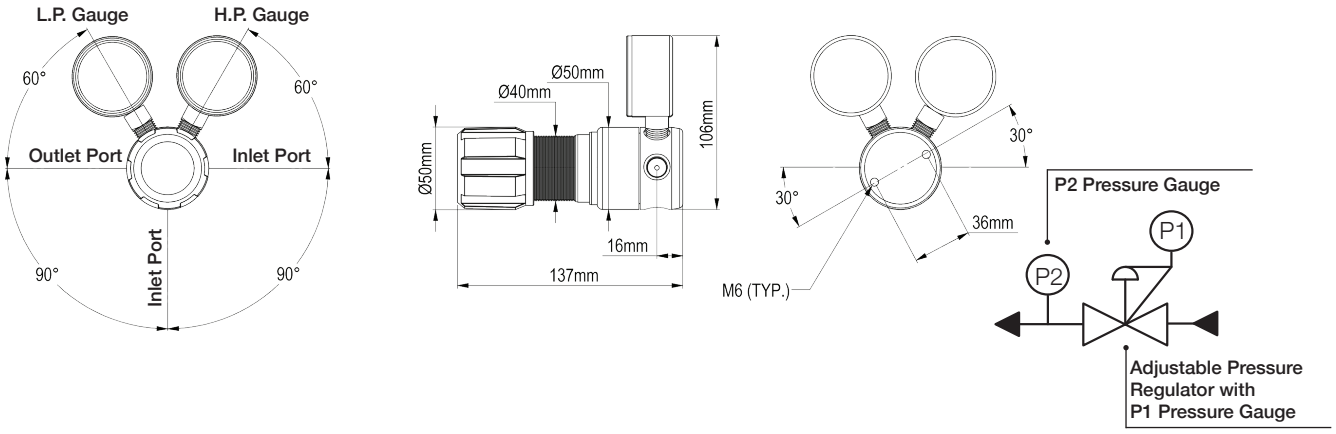
** Subject to cylinder connection – ** Cyliner connection not included*

FLOW PERFORMANCE



We do everything we can to ensure that the technical information within this document is correct at time of publishing, however content may be changed without notice.

DRAWINGS



MODEL NO. SELECTOR GUIDE

Example for a Model No. for GPS420 Series

GPS421- 02- 07- 00- 00- 001- 01- A

Product Type	Inlet Pressure Bar [PSI]	Outlet Pressure Bar [PSI]	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet Connection	Outlet Connection	Options
GPS421	**02** 60 bar [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
GPS422	**04** 300 bar [4350]	**10** 0 to 50 [725]	**01** bar/PSI	**01** bar/PSI	**001** 1/8 Stainless Steel Compression	**01** 1/8 Stainless Steel Compression	**F** Bonnet Vent Kit
		11 0 to 100 [1450]	**10** Plugged Port	**10** Plugged Port	**002** 1/4 Stainless Steel Compression	**02** 1/4 Stainless Steel Compression	**K** Certificate of Conformity (CoC)
		12 0 to 200 [2900]			**003** 6mm Stainless Steel Compression	**03** 6mm Stainless Steel Compression	**L** Panel Mount Locking Nut Kit
		13 0 to 250 [3630]			**004** 1/4 NPT Male	**04** 1/4 NPT Male	**P** Calibration / Pressure Test Certificate
					007 G3/8 BSP R/H Brass Male	**05** 1/4 SAE Flare Brass Male	**X** Special Instruction
					008 G3/8 BSP L/H Brass Male	**06** G1/2 BSP R/H Brass Male	
					009 BS341 No.3 (Base Entry)	**07** G3/8 BSP R/H Brass Male	
					010 BS341 No.3	**08** G3/8 BSP L/H Brass Male	
					011 BS341 No.4 (Base Entry)	**09** Isolation Valve, 1/4 NPT Female, FKM Seal	
					012 BS341 No.4	**10** Isolation Valve, 1/4 NPT Female, EPDM Seal	
					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 '**ICONTGEN**–TechMaster 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	

GCE® Gas Control Equipment

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