



TECH MASTER GPS420 SERIES

4.5 Purity Single Stage Brass Barstock Piston Cylinder Regulator

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

📄 MATERIALS

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

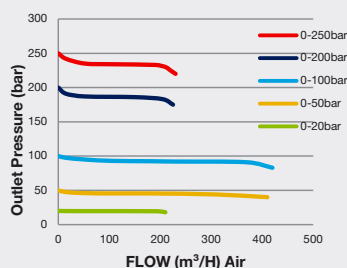
* Subject to cylinder connection ** Cylinder connection not included

👍 SPECIFICATION

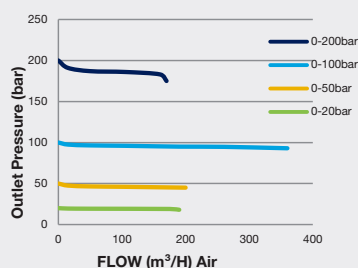
Maximum Inlet Pressure	60 bar (870 PSI) / 300 bar (4350 PSI)*
Delivery Pressure Range	20 bar (300 PSI) / 50 bar (725 PSI) / 100 bar (1450 PSI) / 200 bar (2900 PSI) / 250 bar (3630 PSI)
Gauges	50mm (2") Diameter
Ports	1/4" NPT Female
Temperature Range	-20° C to +60° C (-4° F to +140° F)
Flow Coefficient (Cv)	0.1
Weight	1.5 kg (3.3 lb)**

✓ FLOW PERFORMANCE

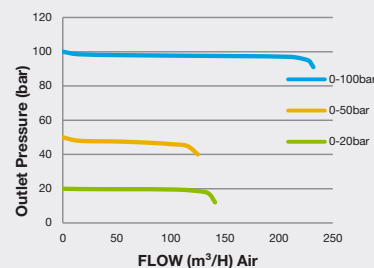
300 bar Inlet Pressure @ 21° C



200 bar Inlet Pressure @ 21° C

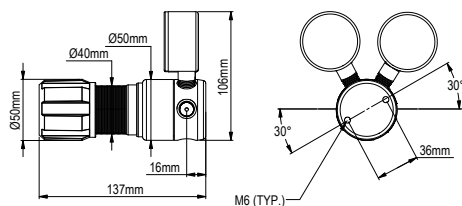
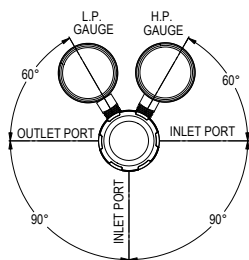


100 bar Inlet Pressure @ 21° C

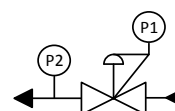




DIMENSIONS



PROCESS & INSTRUMENTATION



- Adjustable Pressure Regulator with P1 Pressure Gauge



- P2 Pressure Gauge

Model No. Selector Guide

Product Type	Inlet Pressure	Outlet Pressure	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet/Cylinder Connection	Outlet Connection	Options
GPS421	02 60 bar / 870 PSI	07 - 1 -20 bar / 300 PSI	00 No Gauge Fitted	00 No Gauge Fitted	000 No Inlet Fitted	00 No Outlet Fitted	A No Options Selected
GPS422	04 300 bar / 4350 PSI	10 - 1 -50 bar / 725 PSI	01 bar/PSI	01 bar/PSI	001 1/8 Stainless Steel Compression	01 1/8 Stainless Steel Compression	F Bonnet Vent Kit
		11 0 - 100 bar / 1450 PSI	10 Plugged Port	10 Plugged Port	002 1/4 Stainless Steel Compression	02 1/4 Stainless Steel Compression	K Certificate of Conformity
		12 0 - 200 bar / 2900 PSI			003 6mm Stainless Steel Compression	03 6mm Stainless Steel Compression	L Panel Mount Locking Nut Kit
		13 0 - 250 bar / 3630 PSI			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 DIN447 No.6	12 Isolation Valve, 1/8 Stainless Steel Compression, EPDM Seal	
					033 DIN447 No.9	13 Isolation Valve, 1/4 Stainless Steel Compression, FKM Seal	
					034 DIN447 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 'Cylinder Connections Data'	18 Isolation Valve, 1/4 NPT Male, EPDM seal	
						19 Isolation Valve, G3/8 BSP R/H Brass Male, FKM Seal	
					For our complete range of cylinder connections refer to 'Cylinder Connections Data'		