GASARC™
AN **ESAB**® BRAND

TECH MASTER GPT420 SERIES

4.5 Purity Two Stage Brass Barstock Piston Cylinder Regulator

Tech Master GPT420 series two stage piston cylinder regulators are designed for primary pressure gas control of non-corrosive or toxic, technical gases up to grade 4.5 purity (99.995%), on applications where constant delivery pressure is required as the cylinder pressure decreases.

- **GPT421 Series** | Two Stage Piston Cylinder Regulator, FKM Seal
- **GPT422 Series** | Two Stage Piston Cylinder Regulator, EPDM Seal

★ FEATURES

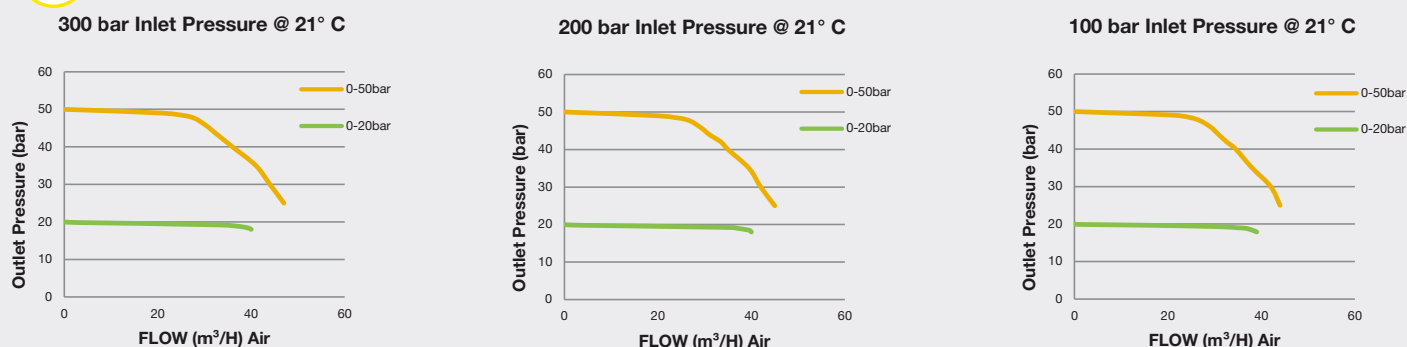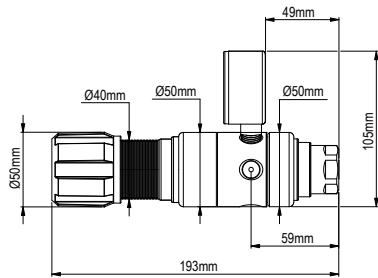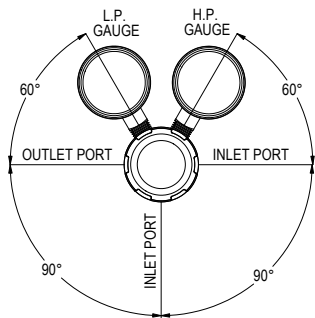| |
|---|
| Five port configuration |
| Front panel mounting capabilities |
| Encapsulated seat design |
| Low wetted surface area |
| Full range of inlet and outlet fittings |
| Base and side entry |

👍 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)
Flow Coefficient (Cv)	0.079
Weight	2.1 kg (4.7 lb)**

📚 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

✔ FLOW PERFORMANCE

300 bar Inlet Pressure @ 21° C

200 bar Inlet Pressure @ 21° C

100 bar Inlet Pressure @ 21° C

L.P. GAUGE / H.P. GAUGE
OUTLET PORT / INLET PORT
INLET PORT
60° 60° 90° 90°

Ø50mm · Ø40mm · Ø50mm · Ø50mm · 49mm · 105mm · 59mm · 193mm
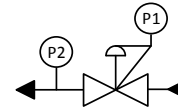

P1 / P2

- Adjustable Pressure Regulator with P1 Pressure Gauge

- P2 Pressure Gauge

Model No. Selector Guide

Product Type		Inlet Pressure		Outlet Pressue		Inlet Pressure Gauge		Outlet Pressure Gauge		Inlet/Cylinder Connection		Outlet Connection		Options	
GPT421		02	60 bar / 870 PSI	07	-1 - 20 bar / 300 PSIG	00	No Gauge Fitted	00	No Gauge Fitted	000	No Inlet Fitted	00	No Outlet Fitted	A	No Options Selected
GPT422		04	300 bar / 4350 PSI	10	-1 - 50 bar / 725 PSIG	01	bar/PSI	01	bar/PSI	001	1/8 Stainless Steel Compression	01	1/8 Stainless Steel Compression	F	Bonnet Vent Kit
						10	Plugged Port	10	Plugged Port	002	1/4 Stainless Steel Compression	02	1/4 Stainless Steel Compression	K	Certificate of Conformity
										003	6mm Stainless Steel Compression	03	6mm Stainless Steel Compression	L	Panel Mount Locking Nut Kit
										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 'Cylinder Connections Data'	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		