DataSheet No.
GPS40GEN - A REV 1

GASARC
AN **ESAB** BRAND

Tech Master GPS400 Series
4.5 Purity Single Stage Brass Barstock Diaphragm Cylinder Regulator

The Tech Master GPS400 Series single stage diaphragm 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 slight variation from decreasing cylinder pressure is acceptable.

■ **GPS400** Series | Single Stage Diaphragm Cylinder Regulator

⭐ FEATURES

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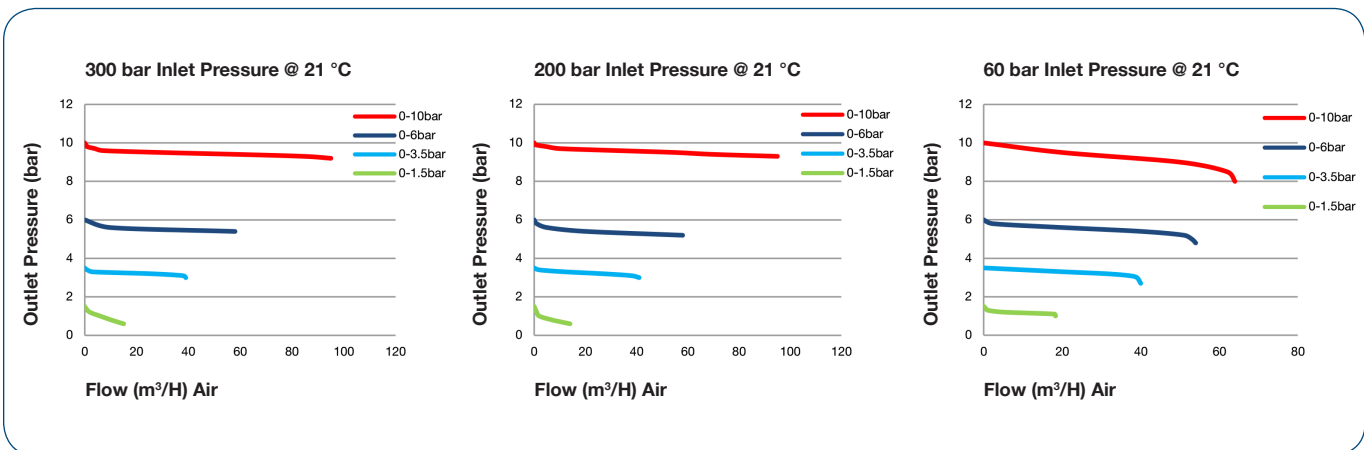- Base and side entry

📘 MATERIAL

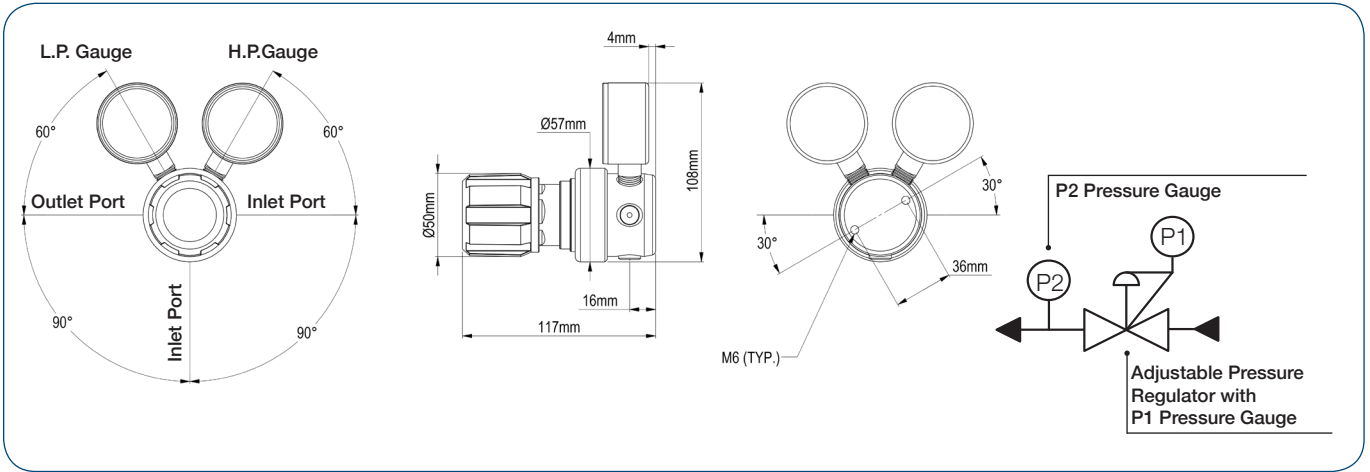|	
■ Body	Brass Barstock
■ Bonnet	High Strength Alloy
■ Diaphragm	Polychloroprene (Neoprene®) (CR)
■ Valve Seat	Polyamide (Nylon®)
■ Filter	10 Micron 316L Stainless Steel

👍 SPECIFICATION

■ Maximum Inlet Pressure	60 bar (870 PSI)
	300 bar (4350 PSI) *
■ Delivery Pressure Range	1.5 bar (22 PSI)
	3.5 bar (50 PSI)
	6 bar (90 PSI)
	10 bar (150 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	1.2 kg (2.7 lbs) **
	EN ISO 2503 Compliant

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

✅ FLOW PERFORMANCE

300 bar Inlet Pressure @ 21 °C

Outlet Pressure (bar)

— 0-10bar
— 0-6bar
— 0-3.5bar
— 0-1.5bar

Flow (m³/H) Air

200 bar Inlet Pressure @ 21 °C

Outlet Pressure (bar)

— 0-10bar
— 0-6bar
— 0-3.5bar
— 0-1.5bar

Flow (m³/H) Air

60 bar Inlet Pressure @ 21 °C

Outlet Pressure (bar)

— 0-10bar
— 0-6bar
— 0-3.5bar
— 0-1.5bar

Flow (m³/H) Air

DCR A0157

❰❱ DRAWINGS

MODEL NO. SELECTOR GUIDE

Example for a Model No. for GPS400 Series

| GPS400- | 02- | 02- | 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	
GPS400	02	60 [870]	02	0 to 1.5 [22]	00	No Gauge Fitted	00	No Gauge Fitted	000	1/4'' NPT Female	00	1/4'' NPT Female	A	No Options Selected
	04	300 [4350]	03	0 to 3.5 [50]	01	bar/PSI	01	bar/PSI	001	1/8 Stainless Steel Compression	01	1/8 Stainless Steel Compression	K	Certificate of Conformity
			04	0 to 6 [90]	10	Plugged Port	10	Plugged Port	002	1/4 Stainless Steel Compression	02	1/4 Stainless Steel Compression	P	Calibration/ Pressure Test Certificate
			05	0 to 10 [150]					003	6mm Stainless Steel Compression	03	6mm Stainless Steel Compression	X	Special Instruction
									004	1/4 NPT Male	04	1/4 NPT Male		
									007	G3/8 BSP R/H Brass Male	05	1/4 SAE Flare Brass Male		
									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		
											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		

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