



Chem Master SGS620 Series

6.0 Purity Single Stage Stainless Steel Piston Cylinder Regulator



The **Chem Master SGS620** single stage piston cylinder regulators are designed for primary pressure gas control of corrosive, toxic and high purity gases up to grade 6.0 purity (99.9999%), on applications where slight pressure variation from decreasing cylinder pressure is acceptable.

- **SGS621** Series | Single Stage Piston Cylinder Regulator, FKM Seal
- **SGS622** Series | Single Stage Piston Cylinder Regulator, EPDM Seal

★ FEATURES

- Six port configuration
- Front and rear panel mounting capabilities
- Encapsulated seat design
- Low wetted surface area
- Full range of inlet and outlet fittings
- Side entry

🔧 MATERIAL

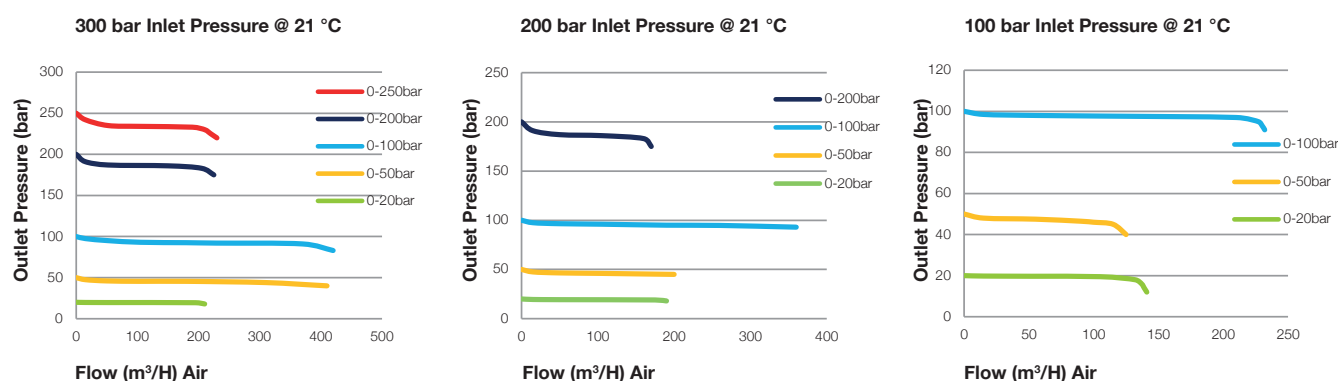
- **Body** 316L Stainless Steel
- **Bonnet** Nickel Plated Brass Barstock
- **Piston** 316L Stainless Steel
- **Seal** FKM / EPDM
- **Valve Seat** PCTFE
- **Filter** 10 Micron 316L Stainless Steel

* Subject to cylinder connection – ** Cylinder Connection not included
*** NACE and 3.1 material certificates available on request, please contact the sales office for further information.

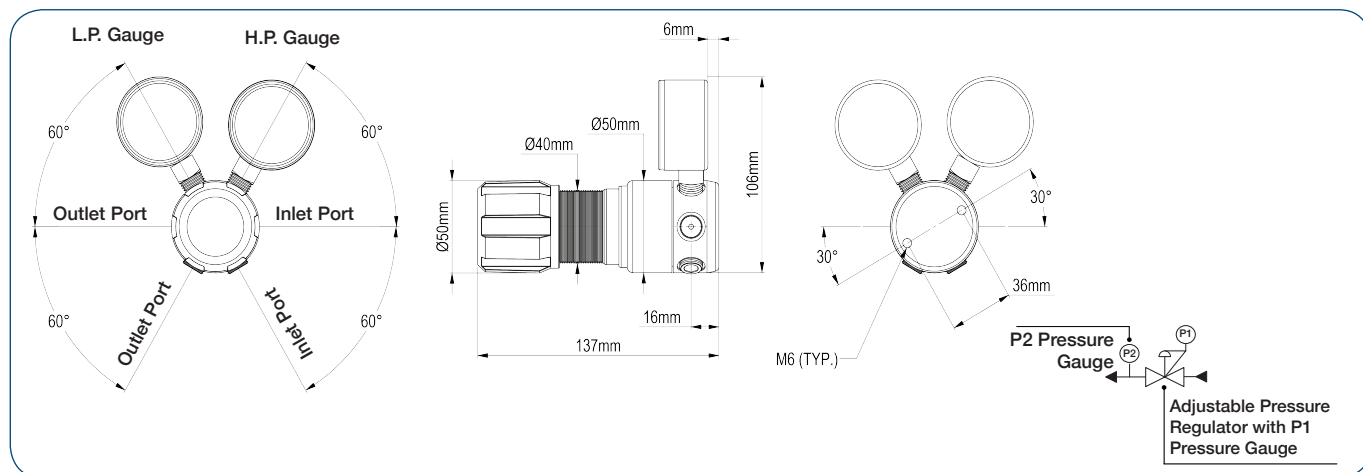
👍 SPECIFICATION

- **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 (3625 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** 1.4 kg (3.1 lb) **

✓ FLOW PERFORMANCE



DRAWINGS



MODEL NO. SELECTOR GUIDE

Example for a Model No. for SGS620 Series

SGS621-	02-	02-	00-	00-	001-	01-	A
Product Type	Inlet Pressure Bar [Psig]	Outlet Pressure Bar [Psig]	Inlet Pressure Gauge	Outlet Pressure Gauge	Inlet Connection	Outlet Connection	Options
SGS621	02 60 [870]	07 0 bis 20 [300]	00 No Gauge Fitted	00 No Gauge Fitted	000 1/4" NPT Female	00 1/4" NPT Female	A No Options Selected
SGS622	04 300 [4350]	10 0 bis 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
		11 0 bis 100 [1450]	10 Plugged port	10 Plugged port	002 1/4 Stainless Steel Compression	02 1/4 Stainless Steel Compression	C Regulator Tee Purge EPDM
		12 0 bis 200 [2900]			003 6mm Stainless Steel Compression	03 6mm Stainless Steel Compression	D Regulator Deep Purge FKM
		13 0 bis 250 [3625]			004 1/4 NPT Male	04 1/4 NPT Male	E Regulator Deep Purge EPDM
					010 BS341 No.3	09 Isolation Valve, 1/4 NPT Female, FKM Seal	F Bonnet Vent Capture Kit
					012 BS341 No.4	10 Isolation Valve, 1/4 NPT Female, EPDM Seal	G Helium Test Certificate
					019 BS341 No.14	11 Isolation Valve, 1/8 Stainless Steel Compression, FKM Seal	H 3.1 Material Certificate***
					030 DIN477 No.6	12 Isolation Valve, 1/8 Stainless Steel Compression, EPDM Seal	J NACE Certificate***
					033 DIN477 No.9	13 Isolation Valve, 1/4 Stainless Steel Compression, FKM Seal	K Certificate of Conformity (CoC)
					034 DIN477 No.10	14 Isolation Valve, 1/4 Stainless Steel Compression, EPDM Seal	L Panel Mount Locking Nut Kit
					045 CGA320	15 Isolation Valve, 6 mm Stainless Steel Compression, FKM Seal	P Calibration/Pressure Test certificate
					052 CGA540	16 Isolation Valve, 6mm Stainless Steel Compression, EPDM Seal	X Special Instruction
					053 CGA580	17 Isolation Valve, 1/4 NPT Male, FKM Seal	
					For our complete range of cylinder connections refer to 'Chem Master Cylinder Connections Data Sheet'	18 Isolation Valve, 1/4 NPT Male, EPDM Seal	