



Chem Master SGS600 Series

6.0 Purity Single Stage Stainless Steel Diaphragm Cylinder Regulator



The **Chem Master SGS600** single stage diaphragm 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.

■ **SGS600** Series | Single Stage Diaphragm Cylinder Regulator, FFKM Pressure Relief Valve

★ 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
- **Diaphragm** 316L Stainless Steel
- **Bonnet Seal** PTFE
- **Valve Seat** PCTFE
- **Filter** 10 Micron 316L Stainless Steel

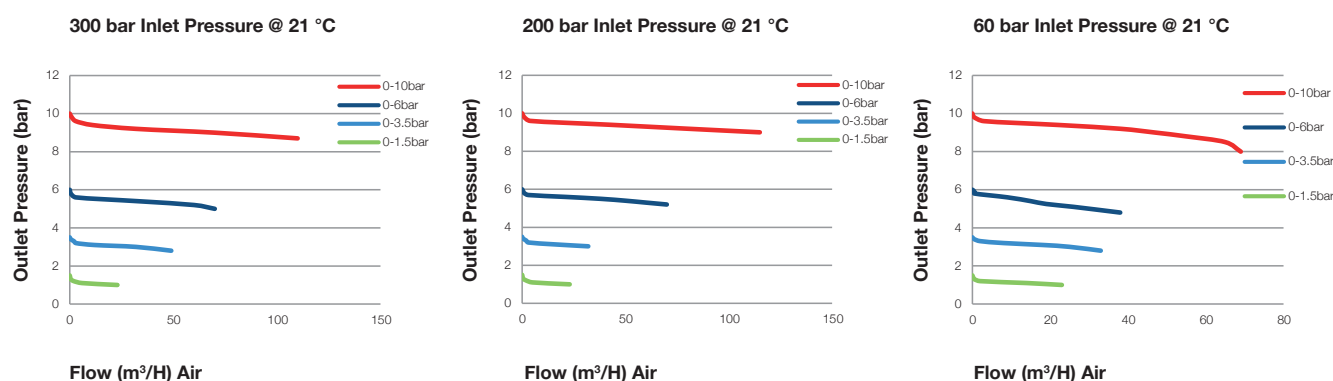
* Subject to cylinder connection – ** Cylinder Connection not included

*** NACE and 3.1 material certificates available on request, please contact the sales office for further information.

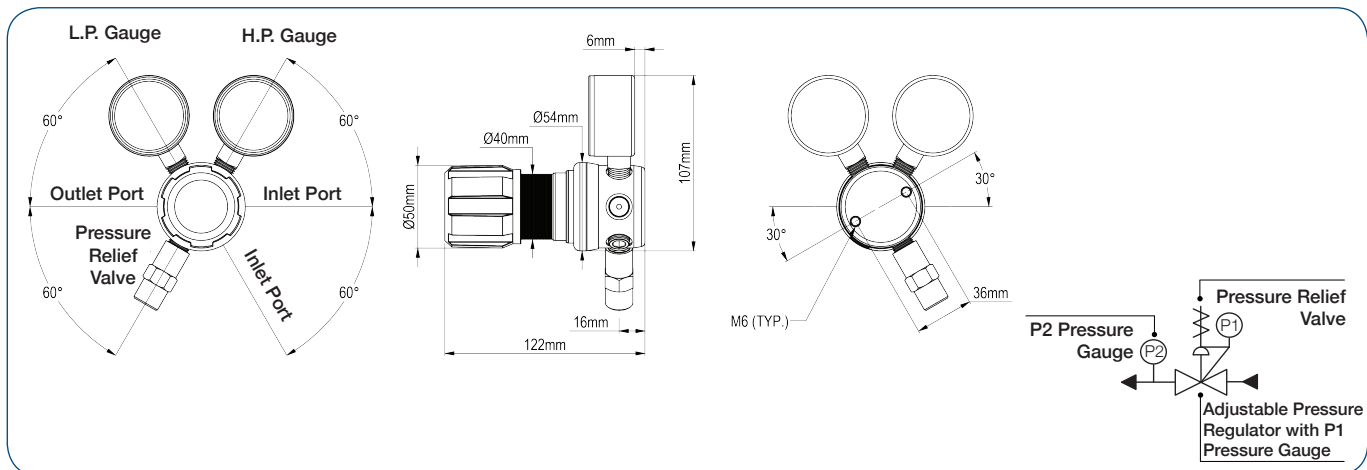
👍 SPECIFICATION

- **Maximum Inlet Pressure** 60 bar (870 PSI)
300 bar (4350 PSI) *
- **Delivery Pressure Range** 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)
- **Helium Leak Integrity** 1×10^{-9} mbar l/s
- **Weight** 1.2 kg (2.7 lb) **

✓ FLOW PERFORMANCE



DRAWINGS



MODEL NO. SELECTOR GUIDE

Example for a Model No. for SGS600 Series

SGS600-	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
SGS600	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	B Regulator Tee Purge FKM
	06 15 [220]	04 0 to 6 [90]	10 Plugged port	10 Plugged port	002 1/4 Stainless Steel Compression	02 1/4 Stainless Steel Compression	C Regulator Tee Purge EPDM
		05 0 to 10 [150]			003 6mm Stainless Steel Compression	03 6mm Stainless Steel Compression	D Regulator Deep Purge FKM
					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	



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