

# **Chem Master SGT600 Series**

6.0 Purity Two Stage Stainless Steel Diaphragm Cylinder Regulator



#### The Chem Master SGT600 two 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 constant delivery pressure is required as cylinder pressure decreases.

- SGT601 Series | Two Stage Diaphragm Cylinder Regulator, FFKM Pressure Relief Valve, FKM Seal
- SGT602 Series | Two Stage Diaphragm Cylinder Regulator, FFKM Pressure Relief Valve, EPDM Seal



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

Seal

### **MATERIAL**

316L Stainless Steel Body

Bonnet Nickel Plated Brass Barstock

Diaphragm 316L Stainless Steel

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 1.5 bar (22 PSI)

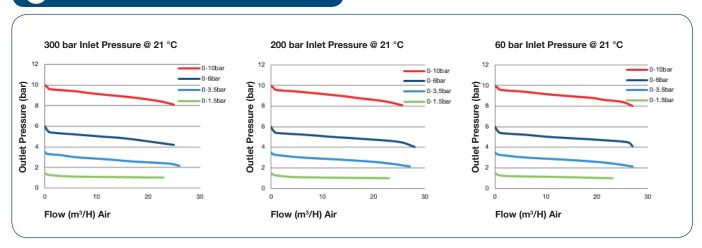
> 3.5 bar (50 PSI) 6 bar (90 PSI) 10 bar (150 PSI)

Gauges 50mm (2") Diameter Ports 1/4" NPT Female

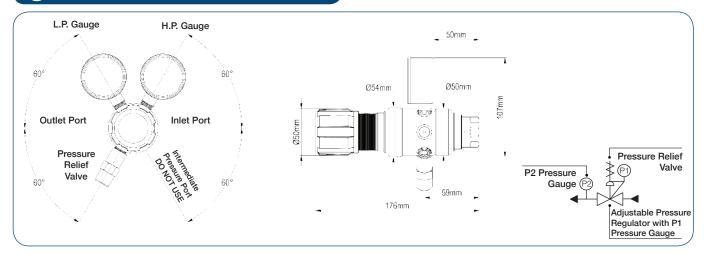
■ Temperature Range -20° C to +60° C (-4° F to +140° F)

Helium Leak Integrity 1 x 10-9 mbar l/s Weight 1.7 kg (3.8 lb) \*\*

## **FLOW PERFORMANCE**



## (I) DRAWINGS



# MODEL NO. SELECTOR GUIDE

#### Example for a Model No. for SGT600 Series

SGT601-	02-		02-		00-		00-		001-		01-		Α	
Product Type		Inlet ressure Bar [Psig]	Pi	Outlet ressure ar [Psig]		Inlet Pressure Gauge		Outlet Pressure Gauge		Inlet Connection		Outlet Connection		Options
SGT601	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	Α	No Options Selected
SGT602	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	В	Regulator Tee Purge FKM
			04	0 to 6 [90]	10	Plugged port	10	Plugged port	002	1/4 Stainless Steel Compression	02	1/4 Stainless Steel Compression	С	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
									007	G3/8 BSP R/H Brass Male	09	Isolation Valve, 1/4 NPT Female, FKM Seal	F	Bonnet Vent Capture Kit
									008	G3/8 BSP L/H Brass Male	10	Isolation Valve, 1/4 NPT Female, EPDM Seal	G	Helium Test Certificate
									010	BS341 No.3	11	Isolation Valve, 1/8 Stainless Steel Compression, FKM Seal	н	3.1 Material Certificate***
									012	BS341 No.4	12	Isolation Valve, 1/8 Stainless Steel Compression, EPDM Seal	J	NACE Certificate***
									019	BS341 No.14	13	Isolation Valve, 1/4 Stainless Steel Compression, FKM Seal	K	Certificate of Conformity (CoC)
									030	DIN477 No.6	14	Isolation Valve, 1/4 Stainless Steel Compression, EPDM Seal	L	Panel Mount Locking Nut Kit
									033	DIN477 No.9	15	Isolation Valve, 6 mm Stainless Steel Compression, FKM Seal	Р	Calibration/Pressure Test certificate
									034	DIN477 No.10	16	Isolation Valve, 6mm Stainless Steel Compression, EPDM Seal	X	Special Instruction
									045	CGA320	17	Isolation Valve, 1/4 NPT Male, FKM Seal		
									052	CGA540	18	Isolation Valve, 1/4 NPT Male, EPDM Seal		
									053	CGA580				
									conr	our complete range of cylinder nections refer to 'Chem Master Ider Connections Data Sheet'				