



GFC T | Thermal Gas Flow Controller

LOW COST SOLUTION

A lower cost thermal solution, servicing broader applications and markets. Pivotal Systems' GFC-T offers a thermal MFC solution for a wide flow range from 2 SCCM to 500 SLM F.S. At Pivotal Systems, we aim to significantly enhance fab productivity and capital efficiency by utilizing our innovative solutions.

Benefits of GFC-T

- Wide flow range 2 SCCM – 500 SLM F.S.
- Lower cost option
- Communications Available in Analog, RS-485, DeviceNET, EtherCAT, Profibus, and Profinet

Key Features

- Pressure Insensitive
- No fixed orifice
- Over 350+ gases supported

PIVOTAL
SYSTEMS

GFC-T Specifications

PERFORMANCE	Flow Range (N2 Equivalent)	2 sccm- 500 slm FS
	Flow Accuracy	For 2 sccm-50 slm: $\pm 1\%$ of Setpoint at 25-100% FS Standard & 5-100% FS Optional, $\pm 0.25\%$ of FS at 2-25% FS For 50 slm-500 slm: $\pm 2\%$ FS
	Response Time	N2 Eqv FS 50 sccm-50 slm: 0.8s to $\pm 1\%$ FS of target SP for 10-100% FS N2 Eqv FS 50 slm-500 slm: 3s to $\pm 2\%$ FS of target SP for 10-100% FS
	Leak Integrity	$\leq 1\text{E-}11$ Pa m ³ /sec(He) for 2 sccm- 50 slm, $\leq 1\text{E-}7$ Pa m ³ /sec(He) for 50 slm-500 slm
	Repeatability	$\pm 0.15\%$ FS
OPERATING CONDITIONS	Supply Pressure Normal Working Pressure	0.05-0.35 MPa 2 sccm-5 slm, 0.07-0.25 MPa 5 slm- 23 slm 0.14-0.35 MPa 23-50 slm, 0.25-0.40 MPa 50-500 slm
	Maximum Working Pressure	0.48 MPa (70psia), high pressure resistance version can be customized
	Compressive Strength	Max 3.0 MPa (435 psia), high pressure resistance version can be customized
	Operating Temperature	Standard: 15-45°C
	Valve Type	Normally Open (NO), Normally Closed (NC) 2 sccm-50 slm, Normally Closed (NC) 50 slm-500 slm
MATERIALS	Surface Finish	Compliant with Semi F19
	Material	Compliant with Semi F20, SUS 316L UHP
	Seals	Metal with C Seal, W Seal, or VCR
ELECTRICAL	Communications	Analog (0-5V, 4-20mA), RS-485, DeviceNet, EtherCAT, ProfiBus-DP, Profinet
	Power	Supports ± 15 VDC 9-pin and 24VDC 9-pin, and 24 VDC M8/M12 5pin