

MASS FLOW CONTROLLER GF-100-120-125

GF-100
Thermal Mass Flow Controller GF-100

- For all gases up to 10bar
- Metal sealed
- Service port aids device installation, monitoring and troubleshooting



PRODUCT DESCRIPTION

Brooks GF-100 series offer high purity flow path, outstanding performance, reliability, and repeatability.

Fast responding, repeatable delivery of process gases with high and ultra-high levels of purity—that's the performance the GF100 series of metal sealed mass flow controllers and meters provides. Designed for semiconductor, MOCVD and other gas flow control applications, the GF100 series exceeds the semiconductor industry standard for reliability, ensuring repeatable, highly stable performance over time. Standard MultiFlo™ technology enables one MFC to support thousands of gas types and range combinations without removing it from the gas line or compromising on accuracy.

Features:

- Long-term zero stability of $\leq \pm 0.5\%$ full scale per year
- Settling times: 700 ms - <1 second
- Full-scale flow rates up to 300 slpm
- All-metal seal flow path: option for 4 μ or 10 μ inch Ra surface finish
- Corrosion-resistant Hastelloy® T-Rise sensor improves measurement reproducibility at elevated temperatures
- MultiFlo™ gas and range programmability—one device, thousands of gas types and range combinations without removing the MFC from the gas line or compromising accuracy
- Local display
- Optional SDS gas delivery
- DeviceNet™, RS-485 L-Protocol and analog interfaces

SPECIFICATIONS

Approvals	CE, RoHS, SEMI F20 kompatibel, EN61010-1, EN61326: 2006 (FCC Part 15 & Canada IC-subset of CE testing)
Burst Pressure	206 bar
Control range	2-100 % (NC) 3-100 % (NO)
Data	RS485, DeviceNet
Diagnostics / Service Port	RS-485 via 2.5mm jack

Differential Pressure	3-860 mln/min = 7-45 psid, 861-7 200 mln/min = 10-45 psid, 7 201-55000 mln/min = 15-45 psid
External Leakage	1x10-10 atm. cc/sec He
Lowest flow	0,003 l/n/min
Materials Wetted Parts	Stainless steel 304, Stainless steel 316, Hastelloy
Normally Closed Valve Closes	<1%F.S
Normally Open Valve Closes	< 2%F.S
Op.	34 bar
Pressure Range Max	55 bar
Response time	< 1 s
Surface Finish	10 µm Ra
Temperature range from	10 °C
Temperature range of media from	10 °C
Temperature range of media to	50 °C
Temperature range to	50 °C
Valve type	NC/NO

Model Code		
Code Description	Code	Option Description
A. Back Wash Code	0200	Back Wash Valve Type 0200
B. Configuration	0000	Standard Configuration
M. Special Application	00	Standard Application
N. Valve Configuration	00	Standard Valve Configuration
P. Back Wash & Regeneration Code	0000	Standard Back Wash & Regeneration Code
Q. Flaring	00	Standard Flaring
R. Dimensional Condition	00	Standard Dimensional Condition
S. External Seal, Valve Seal	00	Standard External Seal, Valve Seal
T. Chamber/Control Code	0000	Standard Chamber/Control Code
U. Chamber Control Register	0000	Standard Chamber Control Register
V. Actuator Code	00	Standard Actuator Code
W. Air Drive	00	Standard Air Drive
X. Reference Temperature	00	Standard Reference Temperature

OEM AUTOMATIC KLITSEJ

Section 5 Product Description Code

GF100 Series

Installation and Operation Manual
 3-TMF-GF100-Series-MFC-eng
 Part Number: 5418131AAG
 November, 2025

Table 5-1 GF100, GF120 & GF225 Series Product Description Code (Continued)

Code	Description	Code	Description
00	Standard	00	Standard
01	Option 1	01	Option 1
02	Option 2	02	Option 2
03	Option 3	03	Option 3
04	Option 4	04	Option 4
05	Option 5	05	Option 5
06	Option 6	06	Option 6
07	Option 7	07	Option 7
08	Option 8	08	Option 8
09	Option 9	09	Option 9
10	Option 10	10	Option 10
11	Option 11	11	Option 11
12	Option 12	12	Option 12
13	Option 13	13	Option 13
14	Option 14	14	Option 14
15	Option 15	15	Option 15
16	Option 16	16	Option 16
17	Option 17	17	Option 17
18	Option 18	18	Option 18
19	Option 19	19	Option 19
20	Option 20	20	Option 20
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00	Option 00	00	Option 00

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00	Option 00	00	Option 00