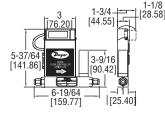
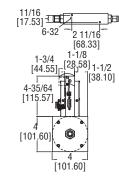
## Dwyer. **GAS MASS FLOW CONTROLLERS** Flow Range Up to 1000 L/min, Pressures Up to 500 psi, NIST Traceable







Model GFC-1101 Thru GFC-1111 & GFC-2101 Thru GFC-2111

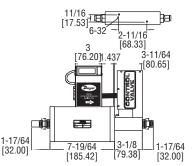


SPECIFICATIONS

(34.5 bar).

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Model GFC-1130 Thru GFC-1133 & GFC-2130 Thru GFC-2133



Model GFC-1143 Thru GFC-1145 & GFC-2143 Thru GFC-2145

Service: Clean gases compatible with wetted parts. Wetted Materials: GFC-1XXX: Anodized aluminum, brass, 316 SS and fluoroelastomer O-rings; GFC-2XXX: 316 SS and fluoroelastomer O-rings. Accuracy: ±1% FS including linearity over 59 to 77°F (5 to 25°C) and 5 to 60 psia (0.34 to 4 bar); Series GFC X143, X144, X145, ±1.5% FS. Repeatability: ±0.25% FS. Response Time: 2 s to within ±2% of actual flow. Output: Linear 0 to 5 VDC and 4 to 20 mA. Max Particulate Size: 5 microps

Power Supply: ±12 VDC. Process Connections: 1/4" compression fitting for flow rates ≤50 L/m; 3/8" for 100 and 200 L/m; 1/2" for 500 L/min; 3/4" for 1000 L/min.

Pressure Limits: 1000 psig (68.9 bar); Series GFC-X143, X144, X145, 500 psig

The SERIES GFC Gas Mass Flow Controllers combines a straight tube sensor with a restrictor flow element. It is available for flow ranges up to 1000 L/min and offered in aluminum or 316 SS in 1/4", 3/8", 1/2" and 3/4" sizes.

### FEATURES/BENEFITS

- Provides high accuracy and repeatability
  Flow rates are virtually unaffected by temperature and pressure variations
- Utilizes an electromagnetic valve and PID electronics to maintain continuous control by comparing measured sensor signal set to flow rates
- Set points can be adjusted with local potentiometers or remotely via 0 to 5 VDC or 4 to 20 mA analog signal
- Actual gas flow is displayed in engineering units on a 3-1/2 digit, 90° tiltable LCD readout
- Can be used with Series GFT2 Flow Totalizer for applications requiring totalization
- NIST traceable certificate included

## APPLICATIONS

- Gas flow measurement · Gas flow control
- Operating pumps and valves
- · Process equipment
- Vacuum processes
- Glass and metal coating
- · Film deposition

#### MODEL CHART

MODEL CHART				
Aluminum Model	SS Model	Flow Range	Process Connector Compression Fitting	
GFC-1101*	GFC-2101*	0 to 10 mL/m	1/4″	
GFC-1102*			1/4″	
GFC-1103*		0 to 50 mL/m	1/4″	
GFC-1104*	GFC-2104*	0 to 100 mL/m	1/4″	
GFC-1105*	GFC-2105*	0 to 200 mL/m	1/4″	
GFC-1106*	GFC-2106*	0 to 500 mL/m	1/4″	
GFC-1107*	GFC-2107*	0 to 1000 mL/m	1/4″	
GFC-1108*	GFC-2108*	0 to 2 L/min	1/4″	
GFC-1109*	GFC-2109*	0 to 5 L/min	1/4″	
GFC-1111*	GFC-2111*	0 to 15 L/min	1/4″	
GFC-1131*	GFC-2131*	0 to 30 L/min	1/4″	
	GFC-2133*		1/4″	
GFC-1142*			3/8″	
	GFC-2143*		3/8″	
GFC-1144*			1/2″	
GFC-1145*	GFC-2145*	0 to 1000 L/min	3/4″	
*Specified flow ranges are for an equivalent flow of nitrogen at 70°F (21°C) @ 760 mm Hg				

ACCESSORIES		
Model	Description	
GFC-220PE GFC-CBL1	110 V power supply 220 V power supply 8' cable with 15-pin connector 3' extension cable for LCD readout	

Service: Clean gases compatible with wetted parts.

Max. Particulate Size: 5 microns. Temperature Limits: 32 to 122°F (0 to 50°C).

Leak Integrity: 1 x 10<sup>-9</sup> sccs of He. Display: 90° tiltable, 3-1/2 digit. Agency Approvals: CE.

Mass Flowmeters/ Controllers

# CE FLOW

1 - 1/8

[28.58]

1 - 1/40

[31.75]

Model GFC-1140 Thru

GFC-1142 & GFC-2140

Thru GFC-2142

1 - 3/4 - 1

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