



Mass Flow Controller / Meter AFC 261 / AFM 361

AFC & AFM Series



Features

The traditional analog **Qualiflow Therm AFC 261** and **AFM 361** with elastomeric seals and reliable thermal valve :

- Compatible with other MFC
- Economic design, simple construction
- Outstanding records throughout various industries
- Possibility to regulate with external readout.

Calibration

MFCs are calibrated with Nitrogen

Reference Standards..... Temperature □ 273.15K
..... Pressure □ 101325 Pa

Input and Output

Mass Flow Controller..... ± 15 VDC, 150 mA
Mass Flow Meter..... ± 15 VDC, 25 mA
Input and Output Signal..... from 0 to 5 VDC
Electrical Connector..... Card edge

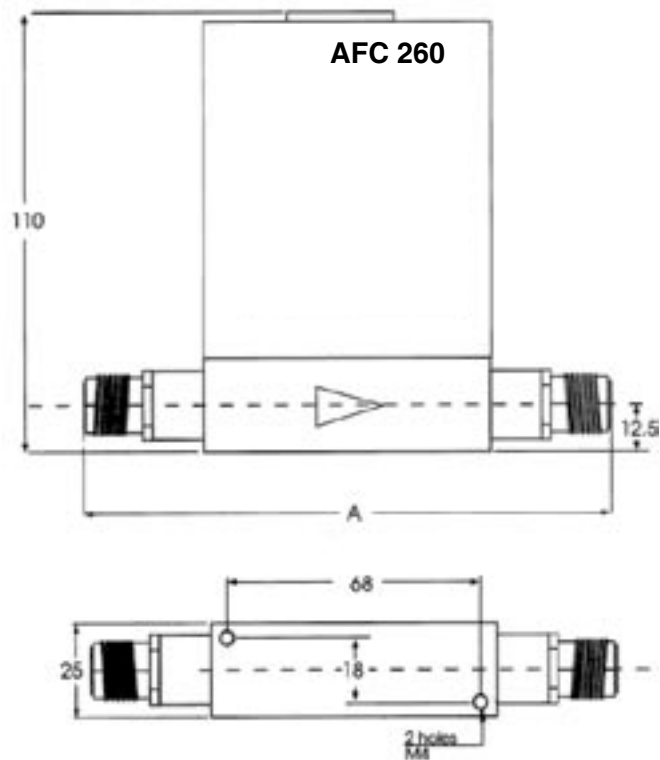
Options

Kalrez seals
Other upon request

Specifications

Flow Range (equivalent N₂)..... 10 slm to 20 slm
Control Range..... 2 – 100% F.S.
Valve Type..... Thermal
Valve Rest Position..... Normally Open only
Accuracy..... ± 1% of F.S.
Linearity..... ± 0.5% of F.S.
Repeatability..... ± 0.3% of F.S.
Sensibility to Mounting Position..... ± 0.1% of F.S.
Step Response Time..... □ 6 sec. typical (SEMI E17-91)
Operating Temperature..... 5□40°C, Non-condensing
Temperature Coefficient..... < 0.5% F.S./°C
Maximum Inlet Pressure..... 1 MPa (10bar, 150psi)
Minimum Differential Pressure..... 50 kPa (70 kPa with H₂)
Maximum Differential Pressure..... 300 kPa (3bar, 43psi)
Pressure Coefficient..... < 0.1% F.S./10⁵ Pa
Wetted Materials..... 316 L Stainless steel
Leak Integrity..... < 2.10⁻⁸ atm.scc/sec (He)
Standard Seals..... Viton, Neoprene
Fittings..... ¼" VCR, Swagelok
Weight..... 1 Kg

Dimensions



Pinout configuration

<u>GND</u>	1	A	<u>Setpoint (0-5 VDC)</u>
<u>Common</u>	2	B	<u>Common</u>
<u>Readout (0-5 VDC)</u>	3	C	<u>Common</u>
<u>+15 VDC</u>	4	D	<u>Valve control</u>
<u>NC</u>	5	E	<u>NC</u>
<u>Test point</u>	6	F	<u>-15 VDC</u>
<u>NC</u>	8	J	<u>Sensor upstream</u>
<u>NC</u>	9	K	<u>Sensor com</u>
<u>Extra I/O</u>	10	L	<u>Sensor downstream</u>

Connector 20-pin, type "Golden Finger"