

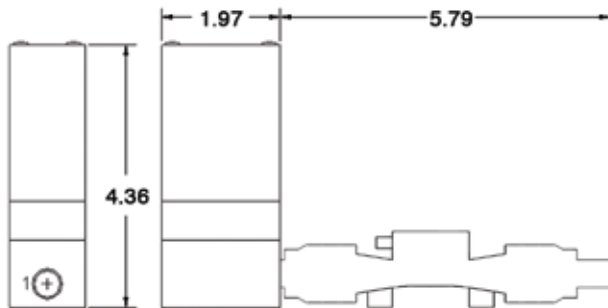
Mass Flow Controller



Non-Linear Version



Linear Version



* All Dimensions are in inches

Kelly Pneumatics, Inc. introduces the Mass Flow Controller. This product offers precise volumetric flow control for a variety of mediums and critical gases. These units are proportional valve driven, using patented proportional valve technology that ensures virtually frictionless performance, while offering excellent resolution, repeatability, and extensive product life. The Kelly Pneumatics Mass Flow Controller product line offers various models and product customization for optimal price savings. The product comes in two primary versions: one with backpressure compensation and one without; these two product versions can be further customized to include a digital display readout and a wall adapter for power supply, as well as open-loop or closed-loop control characteristics. An additional option for both linear or non-linear flow output is available for additional cost savings and product customization.

Accuracy: Standard $\pm 1.5\%$ F.S.
(10-100% rated flow)

Repeatability: $\pm 0.25\%$ Full Scale

Medium: Air, Nitrogen, Helium, Water, Gasoline, other mediums

Response Time: 50 ms or greater (depending on application)

Maximum Flow: 400 SLPM

Pressure Coefficient: -0.0067% / PSI typical

Connections: 1/8" or 1/4" FPT
Supply and Outlet Ports

Weight: 320 grams or .70 pounds

Power Required: 12 and 24 VDC $\pm 10\%$,
or 110 VAC adapter included
with Turnkey version

Input Signal: 0-5, 1-5, 1-9, 1-10, 0-10
VDC, or 4-20 milliamps
Internal: Adj. Potentiometer

Output Signal: 0-5 or 1-5 VDC

Operating Temp: 0-150 °F or 0-65 °C

Wiring Description

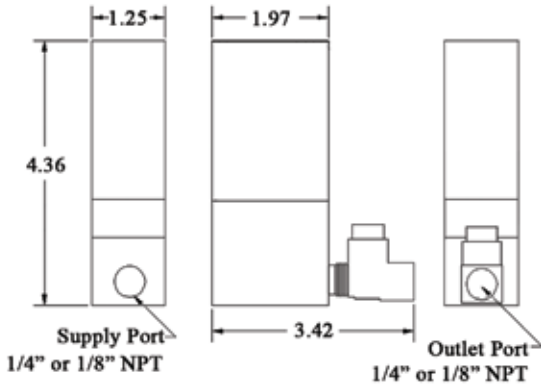
Terminal No.	1*	2	3	4
Lead Wire Color	Brown	White	Blue	Black
Wiring	Power Supply	Input Signal	Common (Ground)	Output Signal

* Omitted with Turnkey Version

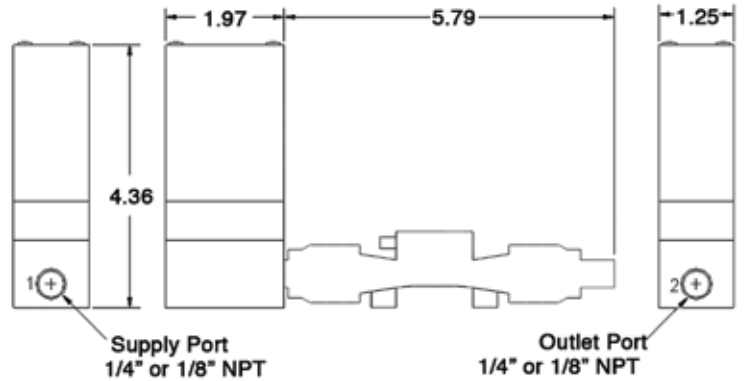
Mass Flow Controller



Non-Linear Version Dimensions



Linear Version Dimensions



Part Numbering System

MFC- [] - [*] - [] - [] - [] * If both options are 00 leave blank and remove preceding dash

Medium:

A - Air
 X - Oxygen
 N - Nitrogen
 H - Hydrogen
 S - Similar to Air
 W - Water
 G - Gasoline
 H - HFV Coolant
 Q - Similar to water

+

Inlet Pressure:

100 - 100 psi
 50 - 50 psi
 25 - 25 psi
 15 - 15 psi
 N14 - (-14.7 psi)

+

Downstream Pressure:

Blank - 0 psi
 100 - 100 psi
 50 - 50 psi
 25 - 25 psi
 15 - 15 psi
 N14 - (-14.7 psi)

+

Power Supply:

TK - Turnkey (supplied)
 12 - Wire Leads, 12 volt
 24 - Wire Leads, 24 volt

Inlet Signal:

00 - no inlet signal
 05 - 0 to 5 vdc
 15 - 1 to 5 vdc
 19 - 1 to 9 vdc
 010 - 0 to 10 vdc
 110 - 1 to 10 vdc
 420 - 4 to 20 ma

+

Outlet Signal:

00 - no outlet signal
 05 - 0 to 5 vdc
 15 - 1 to 5 vdc

Flow Units:

Enter Numeric Value

+

Flow Units:

MLPM - mlpm
 LPM - lpm
 GPM - gpm
 GPH - gph
 FTS - ft³ / sec
 FTM - ft³ / min
 FTH - ft³ / hour

Air Inlet/Outlet Ports:

Blank - 1/4 inch FPT
 8 - 1/8 inch FPT

+

Additional Options:

Blank - Viton
 E - EPDM
 B - Buna-N

Performance Type:

Blank - Linear
 NL - Non-Linear