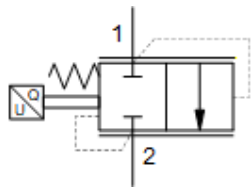
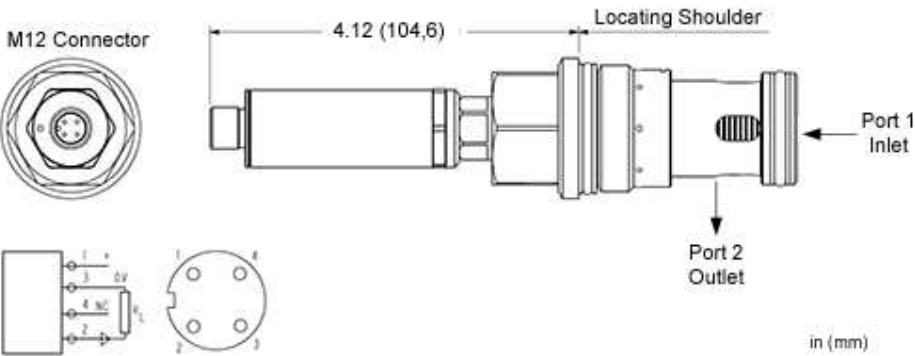




CONFIGURATION

G	Flow Rate	4 gpm 0.5-4.5 V (15 L/min.)
N	Seal Material	Buna-N

This valve serves as a variable area, cartridge-style flow meter. It measures flow from Port 1 to Port 2 and outputs an electrical signal proportional to the measured flow rate.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-16A
Series	3
Capacity	50 gpm
Maximum Operating Pressure	5000 psi
Supply Voltage	6 - 32 VDC
Operating Temperature Range	-13 - 176 °F
Storage Temperature Range	-67 - 185 °F
Vibration	6.8g Peak, 33.3 Hz
Shock	49g Peak (Spec: S-367 Section 12.0)
Termination	M12X1 4-Pin
Output Signal	4 - 20 mA or 0.5 - 4.5 V
Response Time - Maximum (Step input from 0-100%)	500 ms
Accuracy	≤ ± 10% Error of Full Scale (FS)
Repeatability	0.6% Full Scale (FS)
Reverse Polarity Protection	Yes
EMC	IEC 61000-6-4:2018, IEC 61000-6-2:2016
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
IP Rating	IP69K
Certification	CE, E-Mark, E24 10R-067705

CONFIGURATION OPTIONS

Model Code Example: QMEH4Array

FLOW RATE (G) SEAL MATERIAL (N)

G 4 gpm 0.5-4.5 V (15 L/min.)

N Buna-N

A 4 gpm 4-20 mA (15 L/min.)

V Viton

B 8 gpm 4-20 mA (30 L/min.)

E 35 gpm 4-20 mA (140 L/min.)

F 50 gpm 4-20 mA (200 L/min.)

H 8 gpm 0.5-4.5 V (30 L/min.)

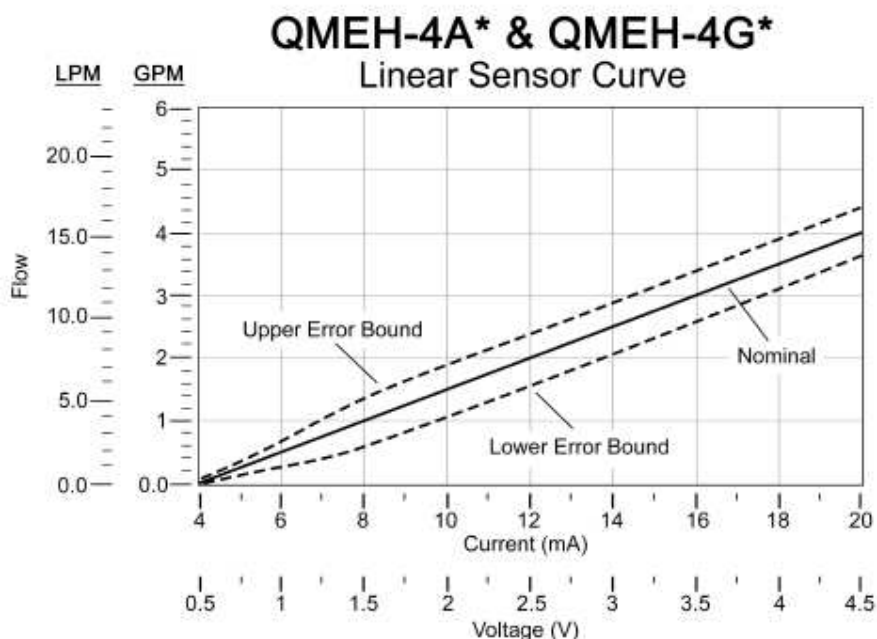
L 35 gpm 0.5-4.5 V (140 L/min.)

M 50 gpm 0.5-4.5 V (200 L/min.)

TECHNICAL FEATURES

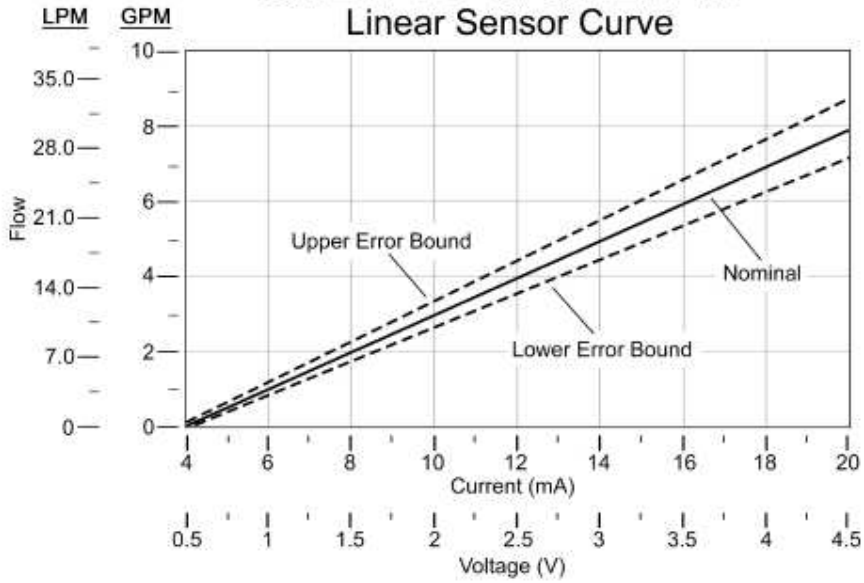
- Performance was validated using a fluid having a viscosity of 24 cSt. As the viscosity increases past 50 cSt, the maximum capacity begins to decrease. When it reaches 200 cSt a 12.5% decrease in capacity was observed. Flow at fluid viscosities higher than 200 cSt cannot be reliably measured with this flow meter.
- All ports are rated to 5000 PSI maximum operating pressure. The valve is insensitive to backpressure up to the rated pressure.
- Rated at IP69K (with IP69K rated mating connector).
- Position sensor (US Patent # 12,484,150) is CE and E-Mark approved.
- The performance of the 50 GPM and 35 GPM versions is sensitive to the size of the port hit diameter at Port 2. Optimal performance is achieved with a port hit diameter larger than 1 inch. Some recommended three-letter bodies are model code IA* with a port size designation larger than 1 inch (SAE 16).
- When powered and there is no flow, the resting output of the sensor is 0.5V/4mA and increases to 4.5V/20mA as the flow increases, up to the upper limit of the flow range. Flow rates above the upper limit of the flow range will not cause the signal output to go higher than 4.5V/20mA. Therefore, flows higher than the published range cannot be measured and will output the maximum of either 4.5V/20mA.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES



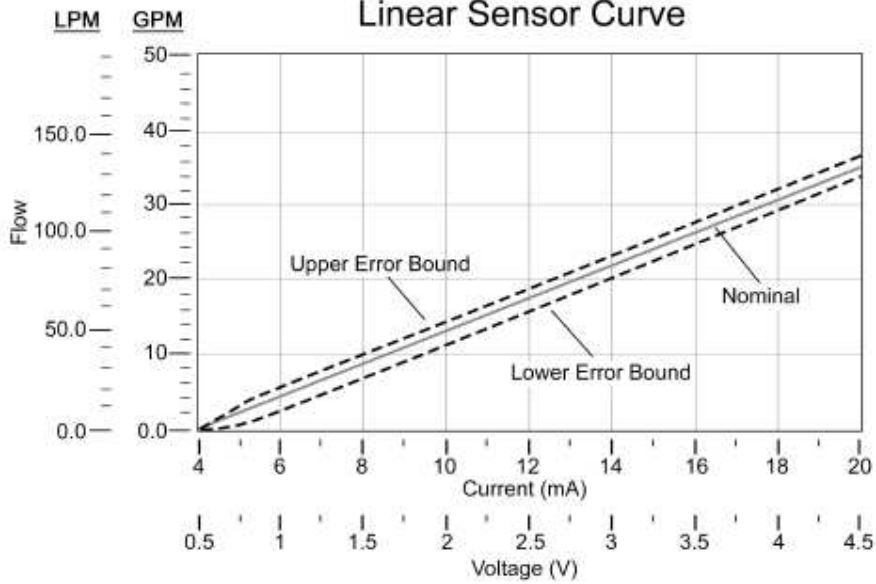
QMEH-4B* & QMEH-4H*

Linear Sensor Curve



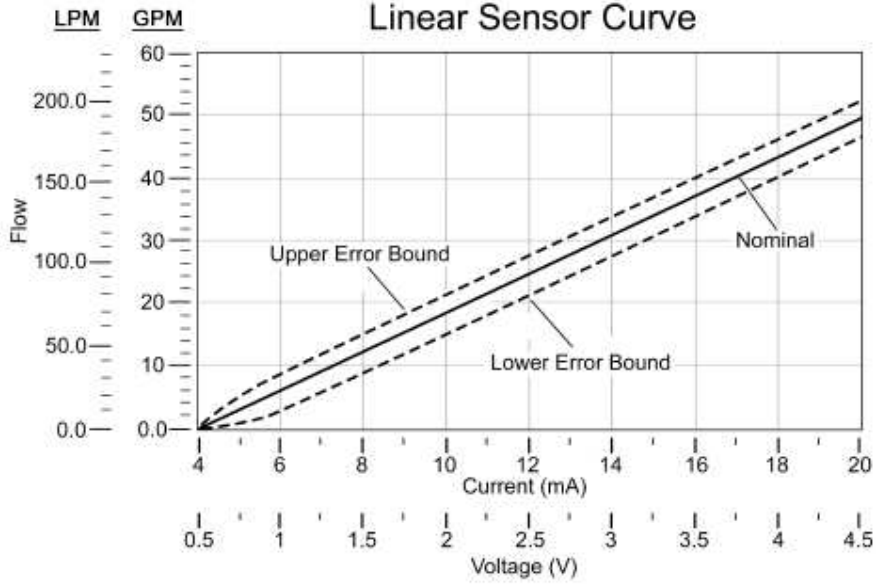
QMEH-4E* & QMEH-4L*

Linear Sensor Curve



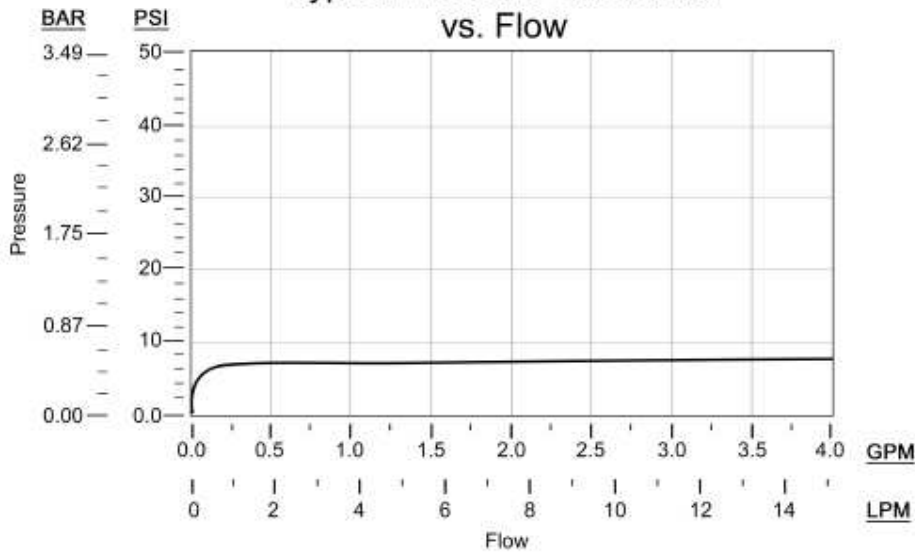
QMEH-4F* & QMEH-4M*

Linear Sensor Curve



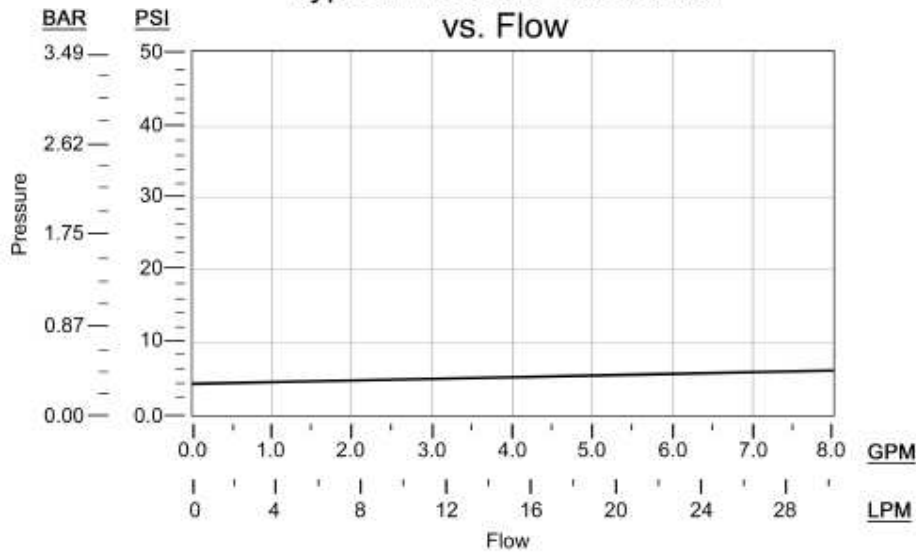
QMEH-4A* & QMEH-4G*

Typical Pressure Differential vs. Flow



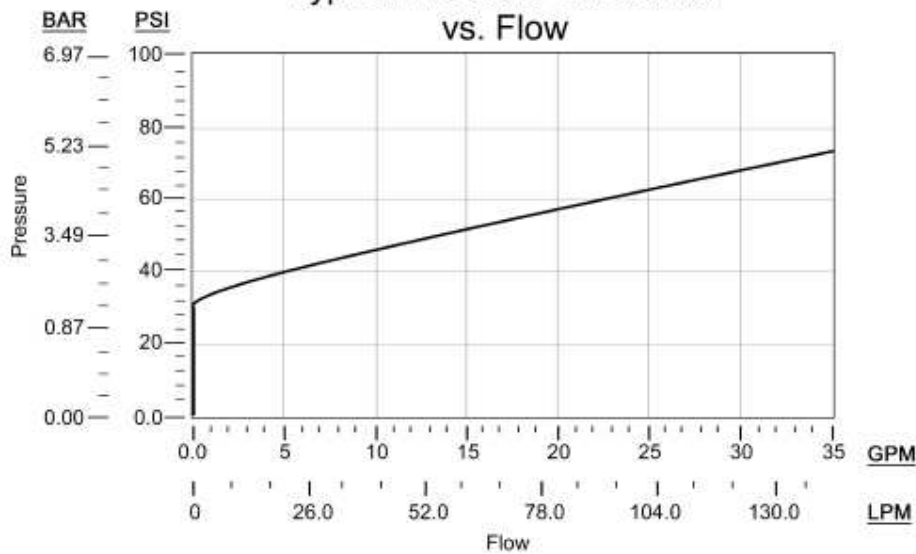
QMEH-4B* & QMEH-4H*

Typical Pressure Differential
vs. Flow



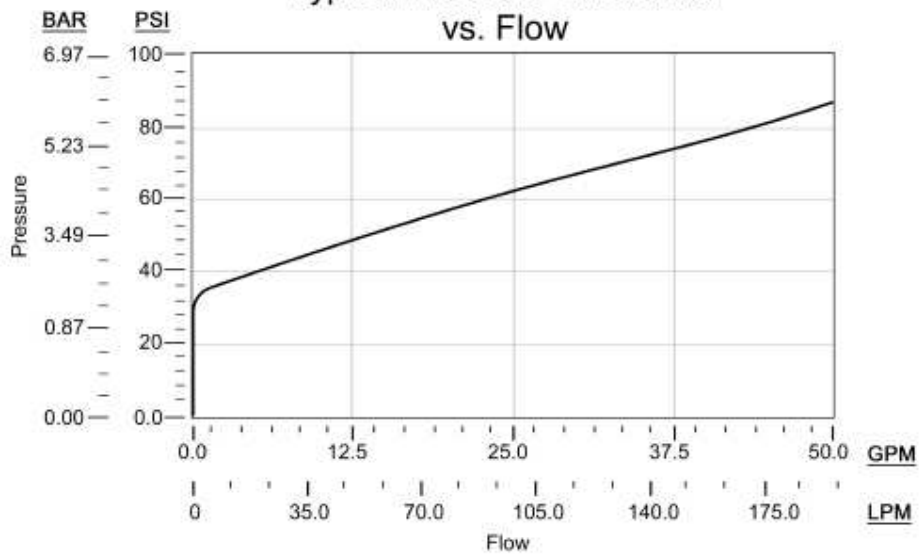
QMEH-4E* & QMEH-4L*

Typical Pressure Differential
vs. Flow



QMEH-4F* & QMEH-4M*

Typical Pressure Differential
vs. Flow



RELATED MODELS