FLOW METERS FOR PEI FUEL & LUBE

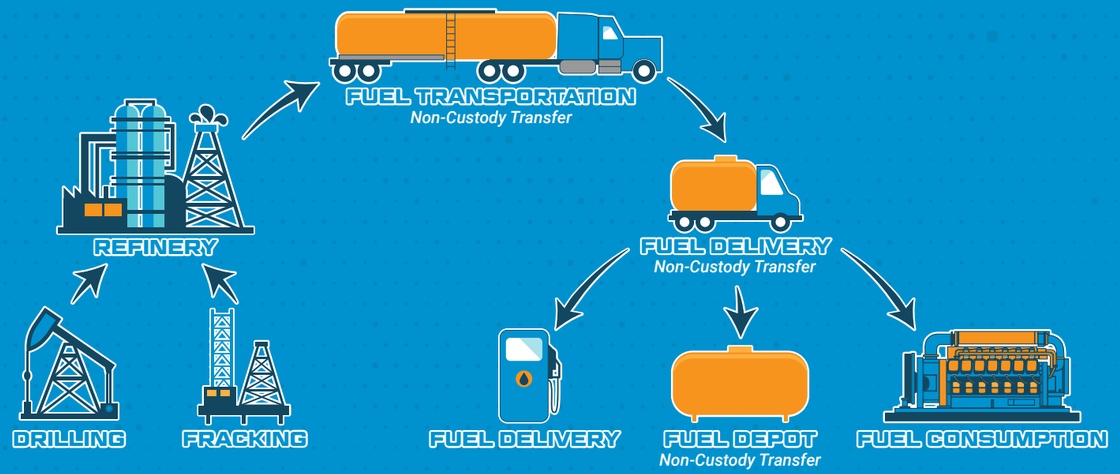
AMERICAS

GPI / FLOMEC® / GPRO®

GREAT PLAINS INDUSTRIES GPI®

PEI FUEL & LUBE FLOW METER MARKET

Downstream oil and gas for the exploration, preparation, drilling, treatment, blending and formulation of fuels, additives and petrochemicals. Non-custody transfer of bulk supply, along with monitoring and controlling the final consumption of the above liquids.



FLOW METER APPLICATION

DRILLING/ FRACKING SITE

Fuel and lube trucks are specialized service vehicles used in the oil and gas industry to perform on-site maintenance and lubrication for heavy equipment and drilling rigs. These trucks deliver essential fluids such as engine oil, hydraulic fluid, grease, coolant, fuel, diesel exhaust fluid (DEF), and other lubricants directly to the job site. By servicing equipment on-site, it significantly improves operational efficiency, reducing downtime and eliminating the need to transport vehicles to a central maintenance facility.

RECOMMENDED FLOW METERS

Oval Gear:
- OM Standard Pressure
- OM Intermediate Pressure
- OM High Pressure
- OM Mechanical
- QM40 Series
- EGM Series
- AIM Block

Nutating Disc:
- M30 Series

Turbine:
- 01 Aluminum for Fuels
- A1 Aluminum for Thin Petro-based Fluids
- G2 Aluminum or Stainless Steel for Fuels

FUEL TRANSPORTATION

Record keeping of loading and unloading of several thousand gallons of fuel between single owner fuel depots or co-ops for more accurate planning and scheduling of future shipments and budgeting purposes.

Oval Gear:
- OM Standard Pressure
- OM Mechanical
- OM PPS (DEF)
- EGM Series
- AIM Block

Turbine:
- 01 Aluminum for Fuels
- A1 Aluminum for Thin Petro-based Fluids
- G2 Aluminum or Stainless Steel for Fuels

FLOW METER APPLICATION

FUEL DELIVERY

Fuel and lube trucks are specialized service vehicles used in many industries such as construction, commercial farming, forestry, fleet maintenance and many others. These trucks deliver essential fluids such as engine oil, hydraulic fluid, grease, coolant, fuel, diesel exhaust fluid (DEF), and other lubricants directly to the job site. By servicing and fueling equipment on-site, it significantly improves operational efficiency, reducing downtime and eliminating the need to transport vehicles to a central maintenance facility.

DOT approved fuel tanks in the bed of trucks or DOT approved trailers allow for mobile fuel stations to get fuel into the remote locations and/or to large equipment that would be too expensive to move around the job site to get critical fuel.

RECOMMENDED FLOW METERS

Oval Gear:
- QM40 Series
- EGM Series
- AIM Block
- LM Series

Nutating Disc:
- M30 Series

Turbine:
- 01 Aluminum for Fuels
- A1 Aluminum for Thin Petro-based Fluids
- G2 Aluminum or Stainless Steel for Fuels

FUEL DELIVERY/DEPOT

Above ground fuel tanks or private fuel stations allow a more efficient way to refuel critical equipment where it is still economical to bring vehicles and equipment to a common staging area, storage site or maintenance area. This is common on large and commercial farms, constructions sites, fleet maintenance centers and strategic fleet fueling stations where recording of usage is critical for reporting, planning and budgeting purposes.

Oval Gear:
- QM40 Series

Nutating Disc:
- M30 Series

Turbine:
- 01 Aluminum for Fuels
- A1 Aluminum for Thin Petro-based Fluids
- G2 Aluminum or Stainless Steel for Fuels

FUEL CONSUMPTION

Large fuel engines and generators are typically fed individually or gang fed with a continuous fuel supply line that the individual fuel injectors pull from, and the excess is dumped back into the supply tank. The only way to know how much fuel each engine is using is to calculate the actual fuel consumption (measure the total fuel supply and subtract the fuel returned to supply tank). Knowing the fuel consumption allows an owner to better plan preventative maintenance and control operational costs.

Oval Gear:
- FCS Series

KEY FACTORS TO CONSIDER WHEN CHOOSING A FLOW METER

1. FLUID

WHAT ARE YOU MEASURING?

Fluid Chemical and Design Compatibility Chart

Clean Fluid

- *Oval Gear Flow Meters*
- *Turbine Flow Meters*
- *Ultrasonic Flow Meters*
- *Paddle Flow Meters*

Some Particles in Fluid

- *Ultrasonic Flow Meters*

2. VISCOSITY AND FLOW PROFILE

HOW THICK OR THIN IS THE LIQUID?

Laminar vs Turbulent flow profile

Turbulent

- *Oval Gear Flow Meters*
- *Turbine Flow Meters*
- *Ultrasonic Flow Meters*
- *Paddle Flow Meters*

Laminar

- *Oval Gear Flow Meters*

3. FLOW RATE INFORMATION

WHAT IS THE MAXIMUM AND MINIMUM FLOW RATE?

Aim for flow rates between 20% and 80% of the maximum capacity to determine the appropriate meter size. This range should encompass the minimum and maximum flow rates expected in the application during normal operating conditions.

4. TEMPERATURE AND PRESSURE RATING

WHAT IS THE MAXIMUM ALLOWABLE?

The flow meter and any integral displays or output module materials must withstand the fluid environmental temperatures and system pressure to prevent inaccuracies and hazards.

5. ACCURACY / REPEATABILITY / LINEARITY

HOW ACCURATE AND PRECISE?

Select the appropriate specifications required for the application.

6. INSTALLATION

WHAT ARE THE INSTALLATION PARAMETERS?

0D upstream and 0D downstream straight runs required

- *Oval Gear Flow Meters*

10D upstream and 5D downstream straight runs required

- *Turbine Flow Meters*
- *Ultrasonic Flow Meters*
- *Paddle Flow Meters*

Approvals

- *cFMus*
- *cULus*

7. OUTPUT/INDICATION

DO YOU REQUIRE A DISPLAY OR A SIGNAL OUTPUT?

Select the appropriate display and/ or output offering required for the application

Display

- *Digital Battery Powered*
- *Digital DC Line Powered*
- *Mechanical*

Signal

- *4-20mA Analog Output*
- *Hall Effect NPN Outputs*
- *Quadrapulse 2x NPN Outputs*
- *Reed Switch Output*
- *Scaled Pulse Out*
- *Un-Scaled Pulse Out*
- *Flow Alarms*

CLASSIFICATIONS

This guide is a generic explanation of the approval marks listed throughout the catalog. See individual product pages for what approvals apply to what products. Approvals vary by product line and may be dependent on flow meter application.

3A Sanitary Standards, Inc. is an independent, not-for-profit corporation dedicated to advancing hygienic equipment design for the food, beverage, and pharmaceutical industries.

ATEX — European directive describing the equipment allowed in an environment with an explosive atmosphere.

European Explosive Atmosphere Symbol

Conformity European. Product has been reviewed to one or more of 21 European directives

Factory Mutual Approved to US Standards.

Factory Mutual Approved to Canadian and US standards

Factory Mutual Approved to Canadian standards

Federal Communication Commission

International Electrotechnical Committee logo; use of the logo by an organization only shows an association with the IECEx, it does not infer any compliance with standards.

IPxx — **Ingress Protection Code**

NEMA — **National Electrical Manufacturers Association**

RoHS 2002/95/EC — **European Directive on Restriction of Hazardous Substances**

Canadian Standards Association

Canadian Standards Association certified to Canadian and US standards

Manufacturers, regulators and consumers look to **NSF International** for the development of public health standards and certification programs that help protect the world's food, water, consumer products and environment.

Underwriters Laboratories listed to US standards

Underwriters Laboratories listed to Canadian and US standards

Underwriters Laboratories listed to Canadian standards

TABLE OF CONTENTS

FUEL / FLAMMABLE AREA

CHEMICAL ADDITIVE / SAFE AREA

M30 SERIES
MECHANICAL FUEL FLOW METER

The **GPI® M30 Mechanical Fuel Flow Meter** is designed for the field measurement of thin viscosity petroleum fuel only and intended for use with pump systems in 5 to 30 GPM (19 to 114 L/min) flow range. This flow meter translates flow data from a nutating disk into calibrated units. The M30 is equipped with both NPT and Flange connections which allows it to be installed on all threaded pump outlets or modular GPI products. This quick-fit modular fuel flow meter is easy to install, easy to use, and easy to maintain.

SPECIFICATIONS

Technology:		Nutating Disc
Line Size:		¾ in. & 1 in.
Accuracy (% of Reading):		± 2.0%
Material Housing:		Diecast Aluminum
Fitting Type:		¾ in. NPT (female)
		1 in. NPT (female)
		1 in. BSPP
Flow Range:		5-30 GPM (19-114 L/min)
Pressure Rating:		50 PSI (3.45 bar)
Pressure Drop (at Max Flow):		Diesel: 7.0 PSI / 0.5 Bar
		Unleaded: 5.0 PSI / 0.3 Bar
Operating Temperature:		-20°F to 125°F (-29°C to 52°C)
Wetted Materials:	Nutator Assembly:	PBT (Polybutylene Terephthalate), Stainless Steel
	Seals:	NBR (Nitrile Butadiene Rubber)
	Mag-Drive:	Acetal, Stainless Steel, Neodymium (Nickel Plated)

FEATURES / BENEFITS

- Quick-Fit modular mounting easily attaches to compatible pumps and accessories
- 1 in. NPT inlet and outlet threaded adapters are included with each flow meter for installation with pipe fittings
- Features simple four-bolt connections that allow the flow meter to be mounted in multiple directions
- Unsurpassed accuracy. Flow meter is within a ± 2.0% accuracy across a flow range from 5 to 30 GPM.
- Durable aluminum housing; magnetic drive replaces the driveshaft and seal, eliminating driveshaft leaks
- Register rotates to read easily in any application; four-digit display, twist knob reset

APPLICATIONS (Typical application but not limited to)

- Agriculture
- Automotive
- Construction

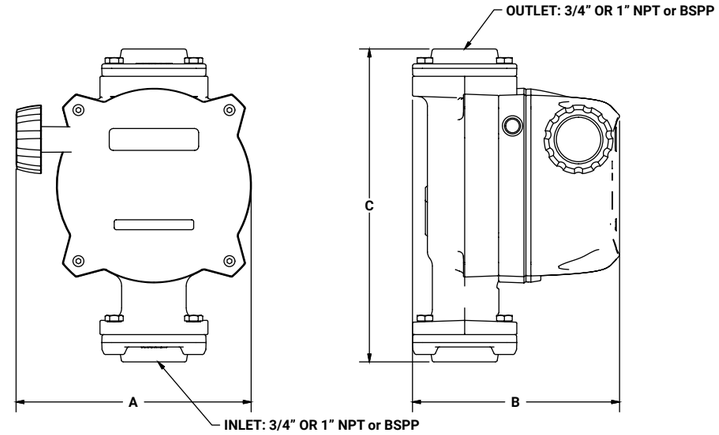
APPROVALS / WARRANTY

CE · cULus LISTED MOTOR · IECEx · 5 YR METER WARRANTY

M30 SERIES
MECHANICAL FUEL FLOW METER

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
5.9 in. (15 cm)	5.2 in. (13.2 cm)	7.9 in. (20.1 cm)



FUEL / FLAMMABLE AREA

DRILLING · FRACKING · FUEL DELIVERY · FUEL DELIVERY · FUEL DEPOT

QM40 SERIES
ALUMINUM OVAL GEAR FLOW METER

PROFESSIONAL GRADE PERFORMANCE

The **GPRO® QM40 Mechanical Fuel Flow Meter** is designed for use with pump systems with a flow range of 2 to 40 GPM (8-150 L/min). This oval gear positive displacement flow meter provides precision fuel measurements and accurate readings for fleet operations, heavy equipment, and agricultural applications. It features a magnetic drive mechanism that prevents leaks and reduces drag which allows for more accurate readings. The QM40 easily attaches to modular fuel transfer pumps and filter adapters with the Quick-Fit modular feature, a simple four-bolt connection.

SPECIFICATIONS

Technology:	Oval Gear
Line Size:	1 in.
Accuracy (% of Reading):	± 0.5% across flow range
Material Housing:	Corrosion-Resistant Aluminum
Fitting Type:	NPT (Female)
Flow Range:	2-40 GPM (8-150 L/min)
Pressure Rating:	50 psi (3.45 bar)
Operating Temperature:	-20°F to 125°F (-29°C to 52°C)
Wetted Materials:	
Housing/Cover/Fittings:	Corrosion-Resistant Die-cast Aluminum
Rotors:	PPS (Polyphenylene Sulfide)
Shafts/Strainer:	Stainless Steel
Seals:	NBR (Nitrile Butadiene Rubber)
Mag-Drive:	Acetal, Stainless Steel and Neodymium (Nickle Plated)

FEATURES / BENEFITS

- Oval gear technology is within ± 0.5% across a flow range from 2 to 40 GPM.
- Register rotates to read easily in any application; four-digit display, twist knob reset
- Magnetic Drive eliminates drive shaft leaks
- Simple four-bolt flange connections allow the flow meter to be mounted in multiple directions. Connections are designed to bolt directly to the GPI® Quick-Fit Filter adapter, a GPI® Modular Pump or a GPRO® Modular Pump
- Threaded inlet and outlet adapters are included with each flow meter to accommodate installation with pipe fittings.

APPLICATIONS (Typical application but not limited to)

- Fuel Transfer
- Fuel Products

APPROVALS / WARRANTY

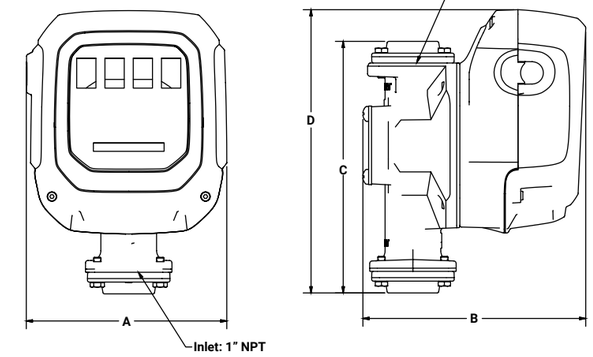
c UL us LISTED

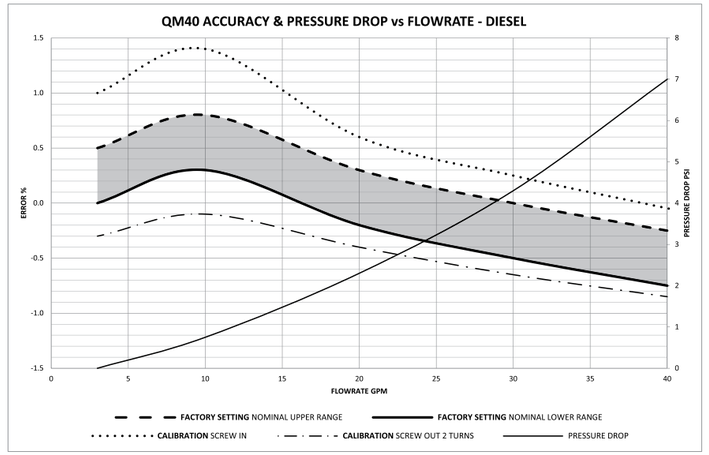
5 YR METER WARRANTY

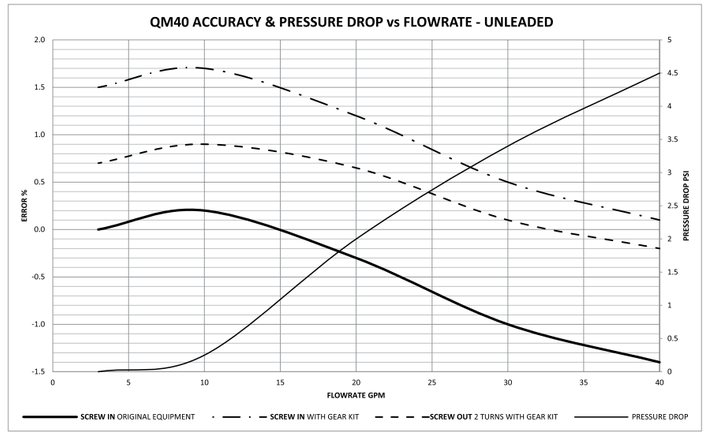
QM40 SERIES
ALUMINUM OVAL GEAR FLOW METER

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"	Dimension "D"
6.4 in. (16.3 cm)	7.1 in. (18 cm)	8 in. (20.3 cm)	9 in. (22.9 cm)





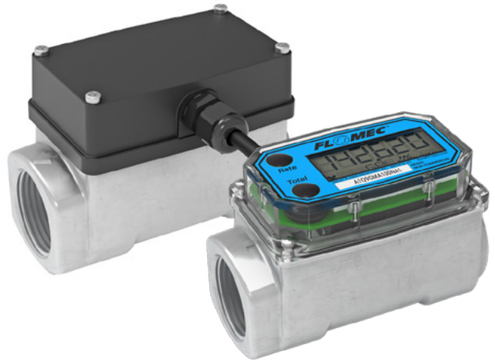


*A gear replacement kit is available (P/N 139500-15) to convert the meter to unleaded fuels. Replacement gear kit will adjust entire flow curve up 1.5%.

DRILLING FRACKING FUEL DELIVERY FUEL DELIVERY FUEL DEPOT

FUEL / FLAMMABLE AREA

A1 SERIES
ALUMINUM TURBINE FLOW METER



FLOMEC® A1 Series Turbine Flow Meter for accurate measurement of thin petroleum-based fluid applications. The A1's lightweight, compact design allows for easy installation.

SPECIFICATIONS

Technology:		Turbine
Line Size:		1 in.
Accuracy (% of Reading):		± 1.5%
Repeatability:		± 0.2%
Fitting Type:		NPT (Female)
Flow Range:		(10) 3-50 GPM (11-190 L/min)
Pressure Rating:		300 psi (21 bar)
Operating Temperature:		-40°F to 250°F (-40°C to 121°C)
w/ Safe Area Only Display:		0°F to 140°F (-18°C to 60°C)
w/ Intrinsically Safe Display:		0°F to 129°F (-18°C to 54°C)
Typical K-Factor:		730 PPG (193 Pulses/L)
Wetted Materials:	Housing:	Aluminum
	Bearings:	Ceramic (96% Alumina)
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
Out Frequency:		36.5-608.3 Hz @ 3-50 GPM (11-190 L/min)
Recommended Filtration:		35 mesh (500 µm)
Calibration Report:		N.I.S.T. – Certification available.

Field calibration is recommended for best accuracy.

A1A-10-N-Q MODEL WITH DISPLAY

A1 Aluminum featuring the Q9 Display is designed as self-contained, battery-powered unit. Intrinsically safe for use in hazardous areas.†

FEATURES / BENEFITS

- Unique package combines Turbine and LCD into a self-contained, compact, economical meter
- Local Display Computer features: 2 Non-Volatile Totals (Batch Total = Resettable, Total = Non-resettable) and Rate of Flow
- Output capabilities available to communicate with process control equipment
- 12 selectable engineering units (gallons or litres are standard defaults)
- Factory calibration
- AAA Alkaline battery life: 2 years

A1A-10-N-P MODEL (BLIND)

A1 Aluminum with Conditioned Signal Output Module (Blind). Conditioned signal module is not FM approved. The conditioned signal output module is not intrinsically safe, and not approved for use in hazardous areas.

FEATURES / BENEFITS

- Provides an NPN Open Collector pulse that can communicate with most process control devices
- Modular design allows for use with output modules, sensors, and remote display kits; plug and play
- External 9 to 35 V (DC), approximately 1mA
- 10 ft. (3 m) 3-wire with strain relief
- Factory calibration

APPLICATIONS (Typical application but not limited to)

- Fuel Transfer
- Batching / Blending
- Chemicals compatible with aluminum

APPROVALS† / WARRANTY

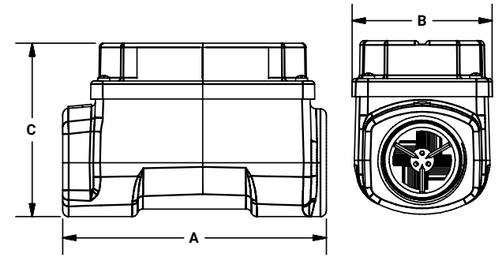
CE NEMA 4 IP65 FM APPROVED IECEx ATEX 2 YR METER WARRANTY

†If the flow meter includes any modules (4-20mA and Pulse Out) that introduces external power, then all intrinsic safety approvals are voided.

A1 SERIES
ALUMINUM TURBINE FLOW METER

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
4.0 in. (10.2 cm)	2.0 in. (5.08 cm)	2.5 in. (6.4 cm)



ACCESSORIES

113275-10
FM Approved* Remote Kit

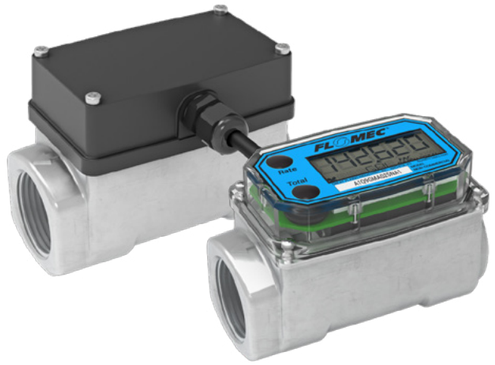
113435-10
Conditioned Signal Module

125100-10
4-20mA Module

125260-02
90° Display Adapter Kit

**Does not make Non-FM or Non-ATEX Approved flow meters FM or ATEX Approved*

A1 SERIES LOW FLOW
ALUMINUM PADDLEWHEEL FLOW METER



FLOMEC® A1 Series Paddlewheel Flow Meter for accurate measurement of thin petroleum-based fluid applications. For low flow applications: 0.30-3 GPM (1 to 11 L/min). Accuracy can vary up to ± 5% depending on installation and fluid type. Field calibration is recommended for best accuracy. The A1's lightweight, compact design allows for easy installation.

SPECIFICATIONS

Technology:		Paddlewheel
Line Size:		1 in.
Accuracy (% of Reading):		Application Dependent[1]
Repeatability:		± 1.0%
Material Housing:		Corrosion-Resistant Aluminum
Fitting Type:		NPT (Female)
Flow Range:		0.30-3 GPM (1-11 L/min)
Pressure Rating:		300 psi (21 bar)
Operating Temperature:		-40°F to 250°F (-40°C to 121°C)
w/ Safe Area Only Display:		0°F to 140°F (-18°C to 60°C)
w/ Intrinsically Safe Display:		0°F to 129°F (-18°C to 54°C)
Typical K-Factor:		2,200 PPG (581 Pulses/L)
Wetted Materials:	Housing:	Aluminum
	Bearings:	Ceramic (96% Alumina)
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
Out Frequency:		11-110 Hz @ 0.30-3 GPM (1-11 L/min)
Recommended Filtration:		120 mesh (120 µm)
Calibration Report:		Comes standard with A1 Series flow meters.
		N.I.S.T. – Certification available.

[1]Accuracy can vary up to ± 5% depending on installation and fluid type. Field calibration is recommended for best accuracy.

APPROVALS† / WARRANTY

CE NEMA 4 IP65 FM APPROVED IECEx ATEX 2 YR METER WARRANTY

†If the flow meter includes any modules (4-20mA and Pulse Out) that introduces external power, then all intrinsic safety approvals are voided.

A1A-10-N-L-Q MODEL WITH DISPLAY

A1 Aluminum with Q9 Display is designed as a self-contained, battery-powered unit. Intrinsically safe for use in hazardous areas.†

FEATURES / BENEFITS

- Unique package combines Paddlewheel and LCD into a self-contained, compact, economical meter
- Local Display Computer features: 2 Non-Volatile Totals (Batch Total = Resettable, Total = Non-resettable) and Rate of Flow
- Output capabilities available to communicate with process control equipment
- 12 selectable engineering units (gallons or liters are standard defaults)
- Factory calibration
- AAA Alkaline battery life: 2 years

A1A-10-N-L-P MODEL (BLIND)

A1 Aluminum with Conditioned Signal Output Module (Blind). Conditioned signal module is not FM approved. The conditioned signal output module is not intrinsically safe, and not approved for use in hazardous areas.

FEATURES / BENEFITS

- Provides an NPN Open Collector pulse that can communicate with most process control devices
- Modular design allows for use with output modules, sensors, and remote display kits; plug and play
- External 9 to 35 V (DC), approximately 1mA
- 10 ft. (3 m) 3-wire with strain relief
- Factory calibration

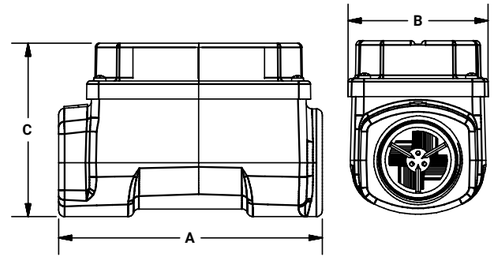
APPLICATIONS (Typical application but not limited to)

- Fuel Transfer
- Batching / Blending
- Fuel Products

A1 SERIES LOW FLOW
ALUMINUM PADDLEWHEEL FLOW METER

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
4.0 in. (10.2 cm)	2.0 in. (5.08 cm)	2.5 in. (6.4 cm)



ACCESSORIES

113275-10
FM Approved* Remote Kit

113435-10
Conditioned Signal Module

125100-10
4-20 mA Module

125260-02
90° Display Adapter Kit

**Does not make Non-FM or Non-ATEX Approved flow meters FM or ATEX Approved*

G2 SERIES
HAZARDOUS AREA INTRINSICALLY SAFE

SPECIFICATIONS

Technology:		Turbine				
Line Size:		½ in.	¾ in.	1 in.	1½ in.	2 in.
Tri-Clamp Fitting:		¾ in.	1 in.	1½ in.	2 in.	2½ in.
Accuracy (% of Reading):		**Turbine Only**			**Turbine w/ Computer**	
	(05) ½"	± 2.0%			± 1.5%	
	(07) ¾"	± 1.5%			± 1.0%	
	(10) 1"	± 1.5%			± 1.0%	
	(15) 1½"	± 1.0%			± 0.75%	
	(20) 2"	± 1.0%			± 0.75%	
Repeatability:		± 0.1% (PVDF ± 0.3%)				
Material Housing:		316 Stainless Steel, Aluminum, PVDF				
Fitting Type:		NPT or ISO (Female) BSPT (ISO 7 designation is RC)				
		150# ANSI (S10, S15, S20 only)				
		Tri-Clamp (Stainless Steel only) - Fitting size is one size bigger than meter size				
Flow Range:	(05) ½"	1-10 GPM (3.8-38 L/min)				
	(05) ½" *PVDF Only*	1.2-12 GPM (4.5-45 L/min)				
	(07) ¾"	2-20 GPM (7.6-76 L/min)				
	(10) 1"	5-50 GPM (19-190 L/min)				
	(15) 1½"	10-100 GPM (38-380 L/min)				
	(20) 2"	20-200 GPM (76-760 L/min)				
Pressure Rating:						
Stainless Steel 316 SS		1,500 psi (102 bar)				
Aluminum		300 psi (21 bar)				
PVDF		100 psi (6.9 bar)				
ANSI Flange 316 SS		Flange Rule				
Sanitary Flange 316 SS		Limited by fitting, clamp size, & temperature				
Operating Temperature:						
Turbine without display:		-40°F to 250°F (-40°C to 121°C) -20°F to 180°F (-28°C to 82°C) *(PVDF)*				
w/ Intrinsically Safe Display:		0°F to +129°F (-18°C to +54°C)				

FLOMEC®

A full line of **FLOMEC® G2 Series Turbine Flow Meters** are available in a variety of housing materials. Rugged and dependable, the G2 Series offers:

- Stainless Steel for most water and chemical products
- Aluminum for fuels and petroleum-based products
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Features highly visible Q9, battery-powered, LCD display; 2-year battery life
- 11 pre-programmed engineering units plus 1 custom option: gallon, litre, imperial gallon, quart, ounce, acre-foot, millilitre, cubic foot, cubic centimetre, cubic metre, barrel
- High accuracy flow meter – view SPECIFICATIONS of each SKU once flow meter options are selected
- Modular design allows for use with output modules, flow sensors, and remote display kits; plug and play *output modules and flow sensors will remove approvals
- Internal parts are simple to replace for easy maintenance
- NPT, ISO 7, #150 ANSI Flange, and Tri-clamp fitting options
- Tri-clamp (not food grade) options available:
  - ¾ inch fitting for ½ inch flow meter
  - 1 inch fitting for ¾ inch flow meter
  - 1½ inch fitting for 1 inch flow meter
  - 2 inch fitting for 1½ inch flow meter
  - 2½ inch fitting for 2 inch flow meter

APPROVALS† / WARRANTY

CE ATEX NEMA 4 FM APPROVED IP65 2 YR METER WARRANTY

IECEx ***ISO 22241-2 Annex C, D, E, F, G, H, I, Diesel Exhaust Fluid (DEF)/ Adblue® standards***

†If the flow meter includes any modules (4-20mA and Pulse Out) that introduces external power or add the high temp riser, then all intrinsic safety approvals are voided.

G2 SERIES
HAZARDOUS AREA INTRINSICALLY SAFE

SPECIFICATIONS CONTINUED

Typical K-Factor:	(05) ½"	2,500 PPG (660 Pulses/L)
	(05) ½"	2,400 PPG (633 Pulses/L) *(PVDF)*
	(07) ¾"	1,100 PPG (291 Pulses/L)
	(10) 1"	565 PPG (149 Pulses/L)
	(10) 1"	540 PPG (142 Pulses/L) *(PVDF)*
	(15) 1½"	215 PPG (57 Pulses/L)
	(20) 2"	100 PPG (26 Pulses/L)
Wetted Materials:	Housing:	316 Stainless Steel or Aluminum
	Bearings:	96% Alumina Oxide Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Wetted Material PVDF:	Housing:	PVDF (15% Carbon Fiber Filled)
	Bearings & Shaft:	98% Alumina Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon (Optional PTFE)
Out Frequency:	(05) ½"	42-420 Hz @ 1-10 GPM (3.8-38 L/min) / 45-450 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)
	(07) ¾"	37-370 Hz @ 2-20 GPM (7.6-76 L/min)
	(10) 1"	47-470 Hz @ 5-50 GPM (19-190 L/min) / 45-475 Hz @ 5-50 GPM (19-190 L/min) (PVDF)
	(15) 1½"	36-360 Hz @ 10-100 GPM (38-380 L/min)
	(20) 2"	33-330 Hz @ 20-200 GPM (76-760 L/min)
Calibration Report:	Comes standard with G2 Series flow meters.	
	N.I.S.T. – Certification available.	

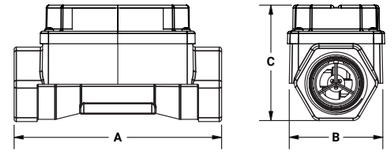
APPLICATIONS (Typical application but not limited to)

- Batching/Blending
- Water Metering
- Plating solutions
- Fuel products
- Metering clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals *(sulfuric acid and bleach)*
- DEF *(Diesel Exhaust Fluid)*
- Food and beverage processing *(non 3A applications)*

DIMENSIONS *NOTE: 4-20mA module adds 0.9 in. (2.3 cm) to height*

Aluminum / Stainless Steel Models

	S05, ½ in.	S07, ¾ in.	S10, 1 in.	S15, 1½ in.	S20, 2 in.
Dimension "A"	4.2 in. (10.7 cm)	4.3 in. (10.9 cm)	4.5 in. (11.4 cm)	5.3 in. (13.5 cm)	6.3 in. (16 cm)
Dimension "B"	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.7 in. (6.9 cm)	3.4 in. (8.6 cm)
Dimension Q9 - "C"	2.1 in. (5.3 cm)	2.3 in. (5.8 cm)	2.6 in. (6.6 cm)	3.3 in. (8.4 cm)	3.8 in. (9.7 cm)
Dimension Blind - "C"	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	2.8 in. (7.1 cm)	3.5 in. (8.9 cm)	4.0 in. (10.2 cm)

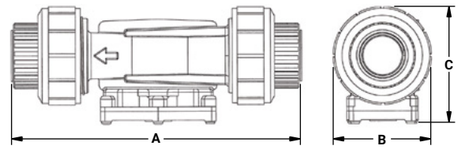


PVDF Models

	P05, ½ in.	P10, 1 in.
Dimension "A"	7.3 in. (18.5 cm)	8.1 in. (20.6 cm)
Dimension "B"	2.1 in. (5.3 cm)	2.8 in. (7.1 cm)
Dimension Q9 - "C"	3.9 in. (9.9 cm)	4.0 in. (10.2 cm)
Dimension Blind - "C"	4.1 in. (10.4 cm)	4.2 in. (10.7 cm)

NOTE: *For representation purpose only. Actual product models vary in shape, design, etc.*

ANSI Flange and Tri-clamp fitting dimensions not shown. For those dimensions, please refer to product manuals or our website GreatPlainsIndustries.com.



FUEL / FLAMMABLE AREA

FCS SERIES
FUEL CONSUMPTION KIT

KIT INCLUDES:

- (2x) EGM Series Electronic Flow Meter
- (1x) F127 Totalizer
- (2x) Meter Brackets
- (2x) Fuel Strainer plus Connector
- Cable Glands

SPECIFICATIONS

Technology:		Oval Gear
Line Size:		¼" (6 mm)
		⅜" (8 mm)
		½" (15 mm)
		¾" (20 mm)
Material Housing:		Aluminum (Land)
		Stainless Steel 316 (Marine)
Fitting Type:		BSPP (G) (female) (ISO 228) NPT (female)
Flow Range:	EGM006	0.5-27 GPH (2-100 L/hr)
	EGM008	4-145 GPH (15-550 L/hr)
	EGM015	0.26-10.6 GPM (1/40 L/hr)
	EGM020	0.5-21 GPM (3-80 L/min)
Operating Temperature:		-40°F to 176°F (-40°C to +80°C)
Wetted Materials:	Rotor Materials:	PPS (Stainless Steel 316 for EGM006 flow meters)

KIT SELECTION

Although each Fuel Consumption Kit consists of the same items, the size of the flow meter and the process connections change depending on the rate of flow, which is a direct correlation to the size of the engine.

A typical diesel fuel loop system would on average have 3.5 times more fuel in its line than what the engine consumes at full load. With this in mind, selecting the right kit based on the engine's power output is important to ensure accuracy and the positive displacement flow meters' longevity.

The graph depicted on the next page should be used as a guide when determining the size of kit is required.

FLOMEC® Fuel Consumption System (FCS) is a complete fuel monitoring system that comprises 2x EGM positive displacement flow meters coupled with an F127 flow instrument for accurate measurement of fuel consumption rates and total fuel consumption. The FCS can accurately measure fuel consumption of combustion engines by correcting for temperature differences from the inlet to outlet of the engine. The EGM positive displacement fuel flow meter provides accurate and economic fuel consumption measurement solutions for all engine sizes.

FEATURES / BENEFITS

EGM Flow Meter

- Cable Length: 6.6 ft (2 m) (can extend using cable connector)
- Pulsating flow electronics eliminates error due to fuel injection pulsation, coupled with integral PT100 resistance thermometers
- Engine Power: 7.5HP - 5000HP (Please consult distributor for larger engines)

F127 Totalizer

- Display: 7 digit resettable total, 11 digit accumulative total with backlight
- Casing: Robust IP66/IP67 field enclosure
- Required Power Supply: 8-24V (dc) (back up power supply built in to save settings in case of power failure)
- Output Options: 4-20mA and Pulse output available

APPLICATIONS (Typical application but not limited to)

- Diesel engine on a ship *(see warning below)*

APPROVALS / WARRANTY

NEMA 6P IP68 CE

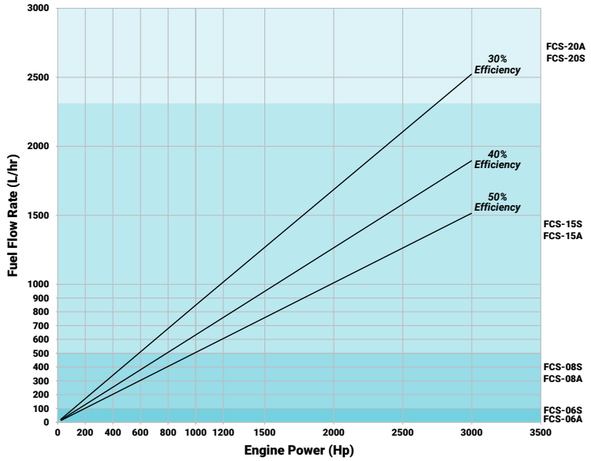
2 YR METER WARRANTY

The Fuel Consumption System is designed for diesel fuel which is considered a flammable fluid by U.S. standards. **The Fuel Consumption System does not have FM Approval and should not be sold for use inside the U.S.**

FCS SERIES
FUEL CONSUMPTION KIT

KIT SELECTION (CONTINUED)

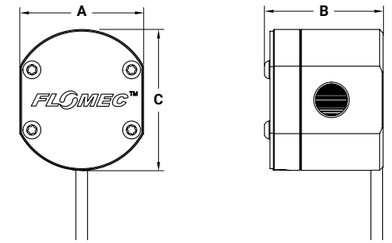
Model:	Process Connections	Meter Specifications Size Flow Range	
FCS-06AB	BSPP (G) (Female)	¼ in. (6 mm)	0.5-27 GPH 2-100 L/hr
FCS-06AN	NPT (Female)		
FCS-06S			
FCS-08AB	BSPP (G) (Female)	⅜ in. (8 mm)	4-145 GPH 15-550 L/hr
FCS-08AN	NPT (Female)		
FCS-08S			
FCS-15AB	BSPP (G) (Female)	½ in. (15 mm)	0.26-10.6 GPM 1-40 L/min
FCS-15AN	NPT (Female)		
FCS-15S			
FCS-20AB	BSPP (G) (Female)	¾ in. (20 mm)	0.5-21 GPM 3-80 L/min
FCS-20AN	NPT (Female)		
FCS-20S			



DIMENSIONS

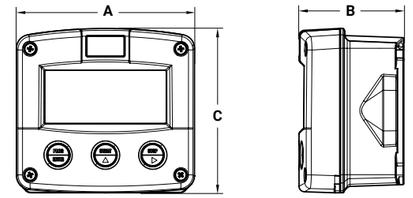
EGM Flow Meter

Meter Size	Dimension "A"	Dimension "B"	Dimension "C"
EGM006	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	1.5 in. (3.8 cm)
EGM008	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	1.9 in. (4.8 cm)
EGM015	2.8 in. (7.2 cm)	3.2 in. (8.2 cm)	2.6 in. (6.6 cm)
EGM020	2.8 in. (7.2 cm)	3.2 in. (8.2 cm)	3 in. (7.6 cm)



F127 Totalizer

Model:	Dimension "A"	Dimension "B"	Dimension "C"
Totalizer	5.1 in. (13 cm)	3 in. (7.6 cm)	4.7 in. (12 cm)



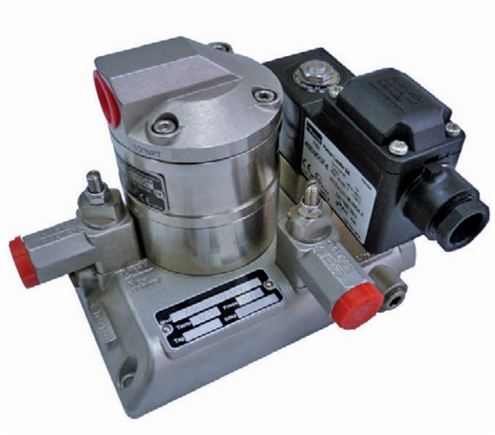
ACCESSORIES

Part Number:	Item	Description
1522056	F-Series Wall Mount Kit	Stainless Steel wall mount kit for F127 totalizer, screws included
1522052	F-Series Pipe Mount Kit	Stainless Steel pipe mount kit for F127 totalizer, excludes worm clamps
1522063	Worm Clamp Kit, 1.0-1.57" (25-40 mm)	Includes 2pcs of stainless steel worm clamps to suit #1522052 and pipe. OD from 1-1.57" (25-40 mm)
1522055	Worm Clamp Kit, 1.81-2.76" (46-70 mm)	Includes 2pcs of stainless steel worm clamps to suit #1522052 and pipe. OD from 1.81-2.76" (46-70 mm)
1519011	M16 Cable Gland	Includes cable gland, locking nut and o-ring
1519012	M20 Cable Gland	Includes cable gland, locking nut and o-ring
1519010	Cable Connector	7-Pin IP67 Polyamide Connector kit

FUEL CONSUMPTION

FUEL / FLAMMABLE AREA

AIM BLOCK
ADDITIVE INJECTION MANIFOLD



The **FLOMEC® AIM Block** is a compact all stainless steel manifold assembly complete with isolating, flow regulating & check valves, a fine mesh strainer, solenoid valve & a precision oval gear flow meter. AIM injects small amounts of modifying additives & performance enhancing agents into fuels & base products. These include lubricants, dyes, colorings, denaturants, detergents, odorizing, anti-freeze, anti-corrosion, anti-static, anti-detonating, anti-icing, anti-foaming and emulsifiers. AIM block will work well with any controller or TAS system, serving as a composite slave assembly for accurate blending of fuel additives to fuels at loading facilities, stationary and mobile transfer units within the petroleum industry worldwide.

SPECIFICATIONS

Technology:	Oval Gear		
Accuracy (% of Reading):	± 1%		
Repeatability:	0.25%		
Housing Material:	**AIM004**	**AIM006**	**AIM008**
Line Sizes:	⅛ in. (4 mm)	¼ in. (6 mm)	⅜ in. (8 mm)
Fitting Type:	⅜ in. NPT Elbows, 3x 90° orientation positions		
Flow Range:	0.26-9.5 GPH (1-36 L/hr)	0.5-27 GPH (2-100 L/hr)	4-145 GPH (15-550 L/hr)
Pressure Rating (Static):	440 psi (30 bar)		
Pressure Rating (Operating):	100 psi (7 bar) *DC Solenoid Coils* 295 psi (20 bar) *AC Solenoid Coils*		
Operating Temperature:	5˚F to 149˚F (-15˚C to 65˚C)		
Electrical Output Resolution - Nominal Pulses / Gallon (Pulses / Litre)			
Hall Effect:	10600 (2800)	3975 (1050)	2650 (710)
High Resolution:	42400 (11200)	15900 (4200)	n/a
Hall Effect Output (NPN):	3 wire open collector, 5-24v (dc) max, 20mA max.		
Protection Class:	IP66/67 (NEMA 4x); EXd I/II T3...T6		

**Maximum flow reduces as viscosity increases, see flow de-rating guide.*

APPROVALS / WARRANTY

ATEX · IECEx · CE · NEMA 4 · IP65/67 · 2 YR METER WARRANTY

FEATURES / BENEFITS

- Compact stainless steel design with stainless gears
- All valve assemblies and the flow meters are detachable
- Modular process connections (directional)
- ± 1% High accuracy & repeatability (± 0.25%)
- Simple to install, easy to service
- ATEX/IECEx approved Explosion proof

APPLICATIONS (Typical application but not limited to)

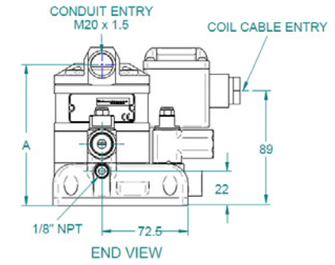
- Lubricants
- Dyes
- Colorings
- Denaturants
- Detergents
- Odorizing
- Anti-freeze
- Anti-corrosion
- Anti-static
- Anti-detonating
- Anti-icing
- Anti-foaming
- Emulsifiers

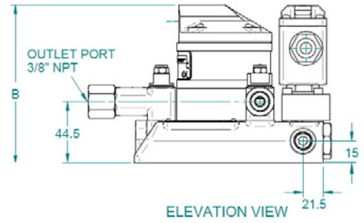
The Fuel Consumption System is designed for diesel fuel which is considered a flammable fluid by U.S. standards. **The Fuel Consumption System does not have FM Approval and should not be sold for use inside the U.S.**

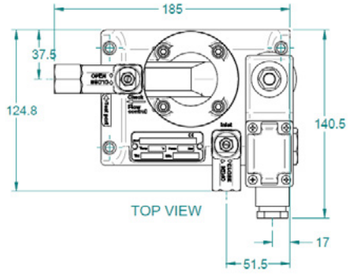
AIM BLOCK
ADDITIVE INJECTION MANIFOLD

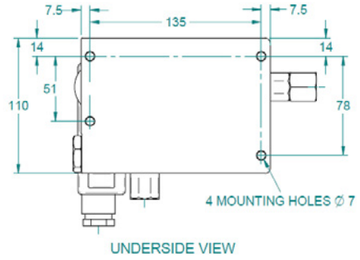
DIMENSIONS

Meter Size	Dimension "A"	Dimension "B"
AIM004	4.3 in. (10.9 cm)	4.8 in. (12.2 cm)
AIM006	4.3 in. (10.9 cm)	4.8 in. (12.2 cm)
AIM008	4.5 in. (11.4 cm)	5.1 in. (13 cm)









01 SERIES
ELECTRONIC FLOW METER

SPECIFICATIONS

Technology:		Turbine
Line Size:		1”
Accuracy (% of Reading):		± 5% *(Nylon)*
		± 2.5% *(Aluminum)*
Material Housing:	01A31GM 01A31LM 01A12LM	Corrosion-resistant aluminum
	01A31GMME	Nickel plated aluminum
	01N31GM	Nylon
	01N31GM-U 01N31LM-U	Nylon
Fitting Type:		12 = 1 inch ISO (Female)
		31 = 1 inch NPT (Female)
Flow Range:		3-30 GPM (10-100 L/min)
Pressure Rating:	Nylon	150 psi (10.34 bar)
	Aluminum	300 psi (20.7 bar)
Operating Temperature:		14°F to 130°F (-10°C to 55°C)
Wetted Materials (Aluminum):	Housing:	Aluminum
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
	Signal Generator:	Ferrite
Wetted Materials (Nylon):	Housing:	Nylon
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
	Signal Generator:	Ferrite

GPI® 01 Series Flow Meters are a great economical choice for monitoring, and indicating fluid usage.

- Available in Aluminum, Nickel plated aluminum or Nylon
- Choice of gallon or litre measurement
- Powered by two easily replaceable AAA batteries
- Batteries Included

FEATURES / BENEFITS

- Complete flow meter, including turbine assembly, microprocessor and LCD readout
- Works well on any pump or gravity feed system with at least 3-30 GPM (10-113 L/min) flow range
- Aluminum model is lightweight, accurate, and reliable with a rugged aluminum housing and rubber bumper, protecting the flow meter from damage
- Nylon model is a simple, small and sturdy Electronic Digital Water flow meter, with rugged nylon housing
- Two Totals - Cumulative Total and Batch Total (resettable)

APPLICATIONS (Typical application but not limited to)

- Water
- Fuel
- Light Chemicals

APPROVALS† / WARRANTY

FM APPROVED

CE

2 YR METER WARRANTY

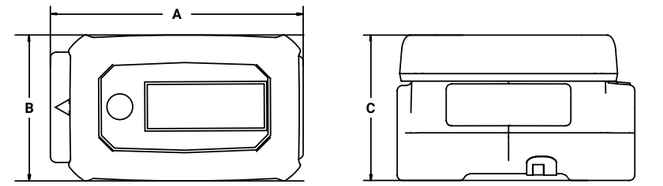
*†FM approvals are only tied to 01A**** Flow Meters*

01 SERIES
ELECTRONIC FLOW METER

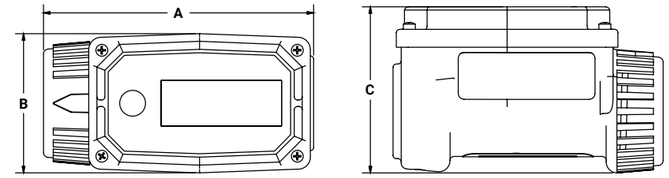
DIMENSIONS

Meter Size	Dimension “A”	Dimension “B”	Dimension “C”
01A	4.0 in. (10.2 cm)	2.0 in. (5.1 cm)	2.5 in. (6.4 cm)
01N	4.0 in. (10.2 cm)	2.0 in. (5.1 cm)	2.5 in. (6.4 cm)

01A



01N



LM SERIES
ELECTRONIC FLOW METER

SPECIFICATIONS

Technology:		Oval gear
Line Size:		½" NPT (Female)
Accuracy (% of Reading):		± 0.5%
Material Housing:	Housing:	Corrosion-Resistant Aluminum
	Oval Gears:	Vectra (LCP-plastic)
	O-Ring:	Viton
Flow Range:		0.25-8 GPM (1-30 L/min)
Pressure Rating:		5-1500 psi (0.35-103 bar)
Operating Temperature:		-4°F to +140°F (-20°C to +60°C)

APPLICATIONS (Typical application but not limited to)

- Motor Oils (SAE 5-50)
- Windshield Wiper Fluid
- Brake Fluid
- Engine Coolant Solutions
- Gear Oils (SAE 80-240)
- Antifreeze (Ethylene Glycol)
- Automatic Transmission Fluid

APPROVALS / WARRANTY

CE

2 YR METER WARRANTY

FLOMEC®

The **FLOMEC® LM51DN Positive Displacement Flow Meter** has a modular design, and is low cost, lightweight and rugged, making it the best choice for overhead reel systems. Perfect for metering engine oils or transmission fluids with a maximum viscosity of 1,000 cp.

The electronic register module contains a microprocessor board powered by a lithium battery. It can be programmed to measure in pints, quarts, litres, or US gallons. The flow meter calibration factor is determined during factory test. The flow meter can be recalibrated in the field for fluids or different viscosity if required. A 6-digit liquid crystal display, accurate to the second decimal place, shows the exact amount of fluid dispensed. The entire register module is protected from the wear and tear of normal shop use by a rugged, glass filled, shock resistant, nylon housing.

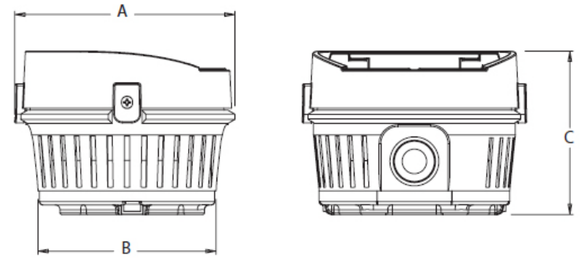
FEATURES / BENEFITS

- 1500 psi rating
- NPT Threads
- Large 6-digit LCD display with two decimal-point precision
- Totalization in pints, quarts, US gallons or liters
- Unit of measure selectable from the front of register
- Resettable and non-resettable totalizer
- Display operation temperature range −4°F to +140°F (−20°C to +60°C)
- Low battery indicator
- Long life field replaceable top load battery
- Accuracy of ± 0.5%
- Calibration factor programmable from front of register
- Calibration factor saved in non-volatile memory

LM SERIES
ELECTRONIC FLOW METER

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
4.0 in. (10.2 cm)	3.3 in. (8.4 cm)	3 in. (7.6 cm)



OM SERIES
CHEMICAL FLOW METER

The **FLOMEC® Chemical Flow Meter** provides precise volumetric flow measurement of a broad range of clean water based products and aggressive chemicals as well as DEF and lubricating liquids. Applications include batching, dosing or packaging of various corrosive chemicals as a more economical alternative to a complete 316 stainless steel flow meter for liquids such as Diesel Exhaust Fluid (AdBlue®).

SPECIFICATIONS

Technology:	Oval Gear	
Line Size:	025	1 in. (25 mm)
Accuracy (% of reading):	± 0.5% (± 0.2% with optional RT14 with non-linearity correction)	
Repeatability:	Typically ± 0.03% of reading	
Material Housing:	PPS	
Fitting Type:	BSPP (RP) female threaded (ISO7)	
	NPT female threaded	
Flow Range:	2.6-40 GPM (10-150 L/min)	
Pressure Rating:	174 psi (12 bar)	
Burst Pressure:	522 psi (36 bar)	
Operating Temperature:	176°F (80°C) Maximum	
Temperature Range:	-40°C - +80°C (-40°F - +176°F)	
Electrical:		
Output Pulse Resolution:	Pulses/gallon (Pulses / L) - Nominal	
Reed Switch:	102 (27)	
Hall Effect:	405 (107)	
QP Quadrature Pulse:	204 (54)	
Reed Switch Output:	30V (dc) x 200mA max. (maximum thermal shock 18°F [10°C] / minute)	
Hall Effect Output:	3 wire open collector 5-24V (dc) max., 20mA max.	
Recommended Filtration:	200 mesh [75 µm]	

FEATURES / BENEFITS

- Combination Reed Switch & Hall Effect Sensor
- PPS Rotors, No Bearing
- FKM (Viton™) 5°F minimum (-15°C) O-Ring material
- High accuracy & repeatability, direct reading flow meter
- No requirement for flow conditioning (straight pipe runs)
- Measures high & low viscosity liquids
- Quadrature pulse output option & bi-directional flow
- Meets DEF (Diesel Exhaust Fluid) / AdBlue® Standards

APPLICATIONS (Typical application but not limited to)

- Water (non-potable, demineralized, RO)
- Glycols / Anti-Freeze
- Diesel Exhaust Fluid (DEF / AdBlue®)
- Fertilizers
- Herbicides
- Insecticides
- Also suitable for many non-flammable fuels and oils

APPROVALS / WARRANTY

CE NEMA 4 IP65

2 YR METER WARRANTY

ISO 22241-2 Annex C, D, E, F, G, H, I, Diesel Exhaust Fluid (DEF)/ AdBlue® standards

OM SERIES
CHEMICAL FLOW METER

FLOW METER SELECTION

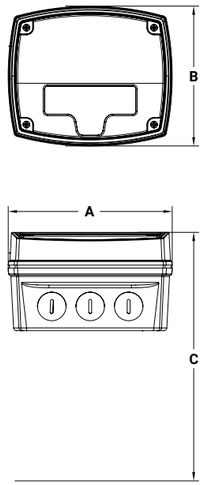
- PPS flow meters are used for non-aromatic/non-halogenated organic chemicals, water based liquids, Diesel Exhaust Fluid and petroleum products including oils and grease. It is unsuitable for strong acids and oxidizers.
- PPS flow meters with standard ceramic rotor pins are suitable for applications where stainless steel is not suited or permitted.

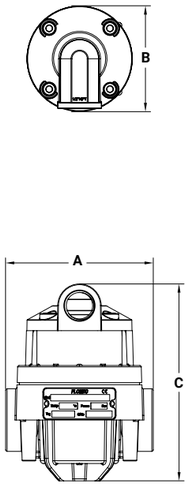
1) Standard blind pulse flow meters come pre-configured with Reed Switch and Hall Effect outputs.
2) Blind Quadrature pulse options available.
3) Local display with standard pulse out or 4-20mA options available.

DIMENSIONS

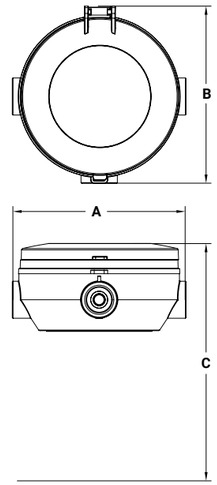
	Dimension "A"	Dimension "B"	Dimension "C"
OM025P	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	5.4 in. (13.7 cm)
OM025P RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	6.6 in. (16.8 cm)
OM025P RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	6.9 in. (17.5 cm)

RT40





RT14



CHEMICAL ADDITIVE / SAFE AREA

FUEL TRANSPORTATION

OM SERIES
MECHANICAL FLOW METER

SPECIFICATIONS

Technology:	Oval Gear	
Line Size Available:	½" (4 mm)	
	1" (25 mm)	
	1½" (40 mm)	
	2" (50 mm)	
	3" (80 mm)	
	4" (100 mm)	
Accuracy (% of reading):	± 1.0% of reading	
Repeatability:	Typically ± 0.03% of reading	
Material Housing:	Aluminum	
	316L Stainless Steel	
Fitting Type:	00	No fittings (025-100E)
	10	BSPP (G) female threaded (ISO 228)
	20	NPT female threaded
	40	ANSI-150 RF Flanged
	50	ANSI-300 RF Flanged (015-050)
	60	PN16 DIN Flanged
Flow Range:	(015) ½"	0.26-10.6 GPM (1-40 L/min)
	(025) 1"	2.6-40 GPM (10-150 L/min)
	(040) 1½"	4-66 GPM (15-250 L/min)
	(050) 2"	8-130 GPM (30-500 L/min)
	(080) 3"	10-200 GPM (35-750 L/min)
	(080E) 3"	13-260 GPM (50-1000 L/min)
	(100) 4"	20-400 GPM (75-1550 L/min)
	(100E) 4"	40-660 GPM (150-2500 L/min)
Recommended Filtration:	½", 1", 1½", 2"	100 mesh [150 µm]
	3" & 4"	40 mesh [350 µm]
Pressure Rating:	20-40 bar (285-580 psi) *Size Dependent*	
Operating Temperature:	5°F - 176°F (-15°C - 80°C)	

The **FLOMEC® OM Series Oval Gear Flow Meters** with mechanical display are well suited to precise volumetric flow measurement of clean liquids. This range of flow meters provides many of the advantages of the electronic version of the OM Series flow meters with a rugged mechanical display that provides trouble-free installation and usage in remote areas or areas with no power.

FEATURES / BENEFITS

- High accuracy oval gear technology with low pressure drop can be used in gravity-fed applications
- No requirement for flow conditioning or straight pipe runs makes them ideal for compact installations with limited space
- Robust aluminum mechanical registers
- Optional air eliminator/strainers
- Ideal for remote environments or unpowered sites

APPLICATIONS (Typical application but not limited to)

- Diesel fuel
- Biofuels
- Glycols / Anti-Freeze
- Lubricating oils and greases

APPROVALS / WARRANTY

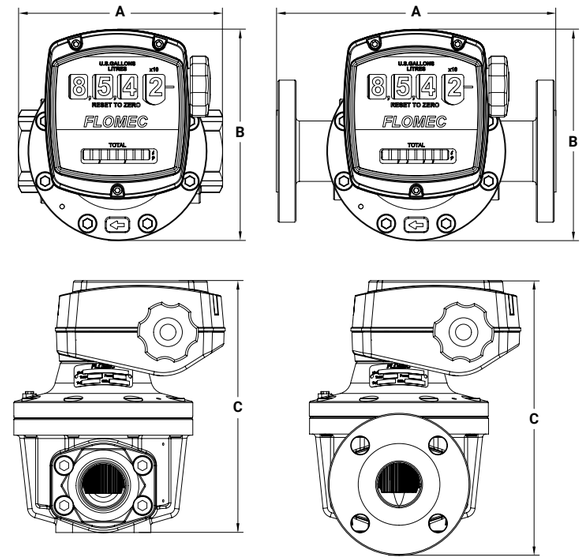
CE NEMA 4 IP54/65 2 YR METER WARRANTY

OM SERIES
MECHANICAL FLOW METER

DIMENSIONS

Flow Meter Size & Fitting		Dimension "A"	Dimension "B"	Dimension "C"
15	NPT	5.8 in. (14.7 cm)	7.3 in. (18.5 cm)	6.3 in. (16 cm)
25	NPT	6.9 in. (17.5 cm)	7.3 in. (18.5 cm)	7 in. (17.8 cm)
	ANSI Flange	9.3 in. (23.6 cm)	7.3 in. (18.5 cm)	8 in. (20.3 cm)
40	NPT	7.2 in. (18.3 cm)	7.4 in. (18.8 cm)	8.9 in. (20.6 cm)
	ANSI Flange	9.8 in. (24.9 cm)	7.4 in. (18.8 cm)	9.7 in. (24.6 cm)
50	NPT	8.3 in. (21.1 cm)	8.6 in. (21.8 cm)	9.3 in. (23.6 cm)
	ANSI Flange	10.9 in. (27.7 cm)	7.8 in. (19.8 cm)	10.4 in. (26.4 cm)
80	ANSI Flange	10.7 in. (27.2 cm)	7.8 in. (19.8 cm)	9.5 in. (24 cm)

**Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended Pressure drop is 14.5 psi (1 bar).*



CHEMICAL ADDITIVE / SAFE AREA

DRILLING FRACKING FUEL TRANSPORTATION

OM SERIES
STANDARD PRESSURE

FLOMEC® OM Standard Pressure Flow Meters provide highly accurate and repeatable volumetric measurement of clean viscous liquids. Suitable for applications including metering lubricants, chemicals, grease, additives, and other high viscosity fluids.

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Measures both high and low viscosity liquids
- Optional Exd I/IIB approval (ATEX, IECEx)

INDUSTRIES

- Aviation
- Mining
- Power
- Chemical
- Pharmaceutical
- Food
- Paint
- Petroleum Industries
- Environmental

APPROVALS / WARRANTY

SPECIFICATIONS

Oval Gear	Nominal Size	Flow Range*
OM004	⅛" (4 mm)	0.26-9.5 GPH (1-36 L/hr)
OM006	¼" (6 mm)	0.5-27 GPH (2-100 L/hr)
OM008	⅜" (8 mm)	4-145 GPH (15-550 L/hr)
OM004-OM008 Accuracy +@3cp:	± 1% (± 0.2% with optional RT14 with non-linearity correction)	
OM015	½" (15 mm)	0.26-10.6 GPM (1-40 L/min)
OM025	1" (25 mm)	2.6-40 GPM (10-150 L/min)
OM040	1½" (40 mm)	4-66 GPM (15-250 L/min)
OM050	2" (50 mm)	8-120 GPM (30-450 L/min)
OM080	3" (80 mm)	10-200 GPM (35-750 L/min)
OM080E	3" (80 mm)	13-260 GPM (50-1000 L/min)
OM100	4" (100 mm)	20-400 GPM (75-1500 L/min)
OM015-OM100 Accuracy +@3cp:	± 0.5% (± 0.2% with optional RT14 with non-linearity correction)	
Repeatability:	Typically ± 0.03% of reading	
Operating Temperature:	-40°F to +300°F (-40°C to +150°C) refers to factory for lower temperature	
Standard Pressure Rating (Threaded Flow Meter)		
Aluminum:	220 PSI (15 Bar)	OM004
		OM006
		OM008
	990 PSI (68 Bar)	OM015
		OM025
	435 PSI (30 Bar)	OM040
	285 PSI (20 Bar)	OM050
	175 PSI (12 Bar)	OM080
		OM080E
	145 PSI (10 bar)	OM100E
316 Stainless Steel:	495 PSI (34 Bar)	OM004
		OM006
		OM008
	990 PSI (68 Bar)	OM015
		OM025
	435 PSI (30 Bar)	OM040
	550 PSI (38 Bar)	OM050
	175 PSI (12 Bar)	OM080

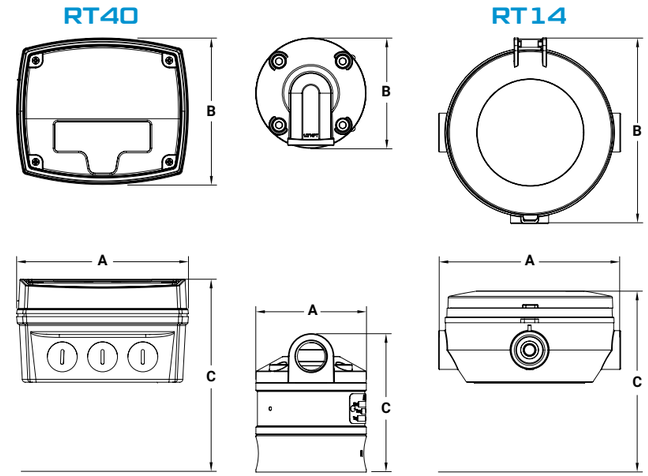
**Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended Pressure drop is 14.5 psi (1 bar).*

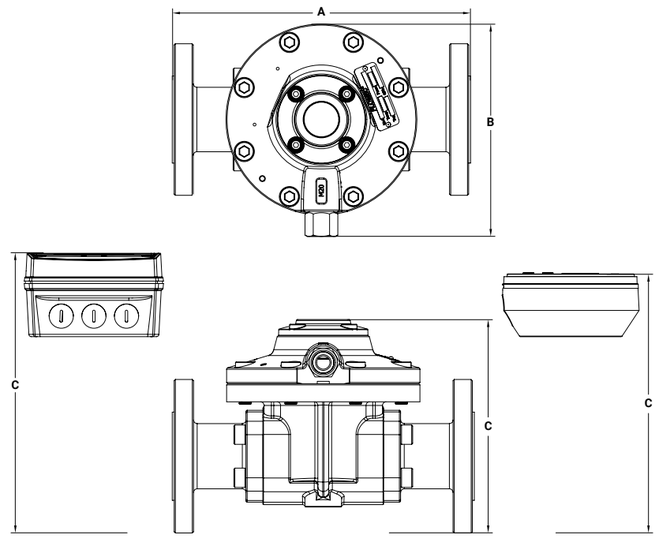
DIMENSIONS REFERENCE THREADED

	Dimension "A"	Dimension "B"	Dimension "C"
OM004	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.7 in. (9.4 cm)
OM004 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.7 in. (11.9 cm)
OM004 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5 in. (12.7 cm)
OM006	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.7 in. (9.4 cm)
OM006 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.7 in. (11.9 cm)
OM006 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5 in. (12.7 cm)
OM008	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.9 in. (9.9 cm)
OM008 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.8 in. (12.2 cm)
OM008 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5.2 in. (13.2 cm)
OM015	4.4 in. (11.2 cm)	5.1 in. (13 cm)	3.9 in. (9.9 cm)
OM015 RT14	4.8 in. (12.2 cm)	5.4 in. (13.7 cm)	5.5 in. (14 cm)
OM015 RT40	4.5 in. (11.4 cm)	5.1 in. (13 cm)	6.1 in. (15.5 cm)

DIMENSIONS REFERENCE FLANGE

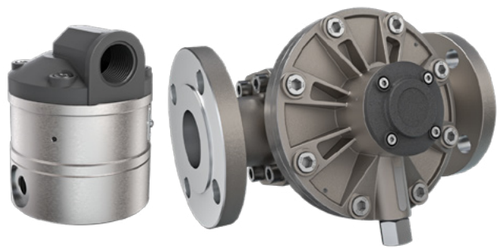
	Dimension "A"	Dimension "B"	Dimension "C"
OM025	9.3 in. (23.6 cm)	5.5 in. (14 cm)	5.6 in. (14.2 cm)
OM025 RT14	9.3 in. (23.6 cm)	5.7 in. (14.5 cm)	7.2 in. (18.3 cm)
OM025 RT40	9.3 in. (23.6 cm)	5.5 in. (14 cm)	7.8 in. (19.8 cm)
OM040	9.8 in. (24.9 cm)	7 in. (17.8 cm)	7 in. (17.8 cm)
OM040 RT14	9.8 in. (24.9 cm)	7 in. (17.8 cm)	8.5 in. (21.6 cm)
OM040 RT40	9.8 in. (24.9 cm)	7 in. (17.8 cm)	9.2 in. (23.4 cm)
OM050	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	7.7 in. (19.6 cm)
OM050 RT14	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	9.3 in. (23.6 cm)
OM050 RT40	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	9.9 in. (25.1 cm)
OM080	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	7 in. (17.8 cm)
OM080 RT14	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	8.7 in. (22.1 cm)
OM080 RT40	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	9.4 in. (23.9 cm)





CHEMICAL ADDITIVE / SAFE AREA

OM SERIES
INTERMEDIATE PRESSURE



FLOMEC® OM Intermediate Pressure Flow Meters provide highly accurate and repeatable volumetric measurement of clean viscous liquids in higher pressure installations. Suitable for applications including metering lubricants, chemicals, grease, additives, and other high viscosity fluids.

SPECIFICATIONS

Oval Gear	Nominal Size	Flow Range*
OM004	⅛" (4 mm)	0.26-9.5 GPH (1-36 L/hr)
OM006	¼" (6 mm)	0.5-27 GPH (2-100 L/hr)
OM008	⅜" (8 mm)	4-145 GPH (15-550 L/hr)
OM004-OM008 Accuracy +@3cp:	± 1% (± 0.2% with optional RT14 with non-linearity correction)	
OM015	½" (15 mm)	0.26-10.6 GPM (1-40 L/min)
OM025	1" (25 mm)	2.6-40 GPM (10-150 L/min)
OM040	1½" (40 mm)	4-66 GPM (15-250 L/min)
OM050	2" (50 mm)	8-120 GPM (30-450 L/min)
OM080	3" (80 mm)	10-200 GPM (35-750 L/min)
OM080E	3" (80 mm)	13-260 GPM (50-1000 L/min)
OM100	4" (100 mm)	20-400 GPM (75-1500 L/min)
OM015-OM100 Accuracy +@3cp:	± 0.5% (± 0.2% with optional RT14 with non-linearity correction)	
Repeatability:	Typically ± 0.03% of reading	
Temperature Rating:	-40°F to +300°F (-40°C to +150°C) refers to factory for lower temperature	
Intermediate Pressure Rating (Threaded Flow Meter)		
Aluminum:	2000 PSI (138 Bar)	OM025
316 Stainless Steel:	1450 PSI (100 Bar)	OM004
		OM006
		OM008
		OM015
		OM025
	725 PSI (50 Bar)	OM040
		OM050

**Maximum flow reduces as viscosity increases, see flow de-rating guide.*
Max recommended Pressure drop is 14.5 psi (1 bar).

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Measures both high and low viscosity liquids
- Optional Exd I/IIB approval (ATEX, IECEx)

INDUSTRIES

- Aviation
- Mining
- Power
- Chemical
- Pharmaceutical
- Food
- Paint
- Petroleum Industries
- Environmental

APPROVALS / WARRANTY

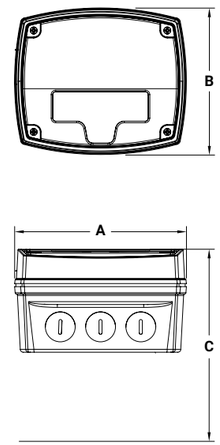
ATEX IEC IECEx CE 2 YR METER WARRANTY

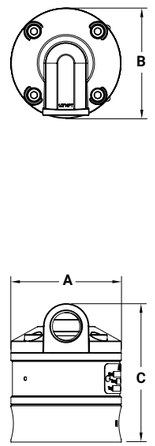
OM SERIES
INTERMEDIATE PRESSURE

DIMENSIONS REFERENCE THREADED

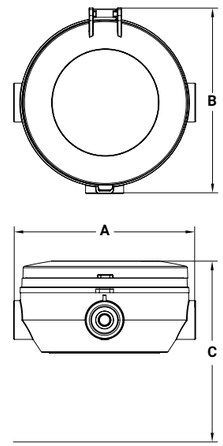
	Dimension "A"	Dimension "B"	Dimension "C"
OM004	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.7 in. (9.4 cm)
OM004 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.7 in. (11.9 cm)
OM004 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5 in. (12.7 cm)
OM006	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.7 in. (9.4 cm)
OM006 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.7 in. (11.9 cm)
OM006 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5 in. (12.7 cm)
OM008	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	3.9 in. (9.9 cm)
OM008 RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	4.8 in. (12.2 cm)
OM008 RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	5.2 in. (13.2 cm)
OM015	4.4 in. (11.2 cm)	5.1 in. (13 cm)	3.9 in. (9.9 cm)
OM015 RT14	4.8 in. (12.2 cm)	5.4 in. (13.7 cm)	5.5 in. (14 cm)
OM015 RT40	4.5 in. (11.4 cm)	5.1 in. (13 cm)	6.1 in. (15.5 cm)

RT40



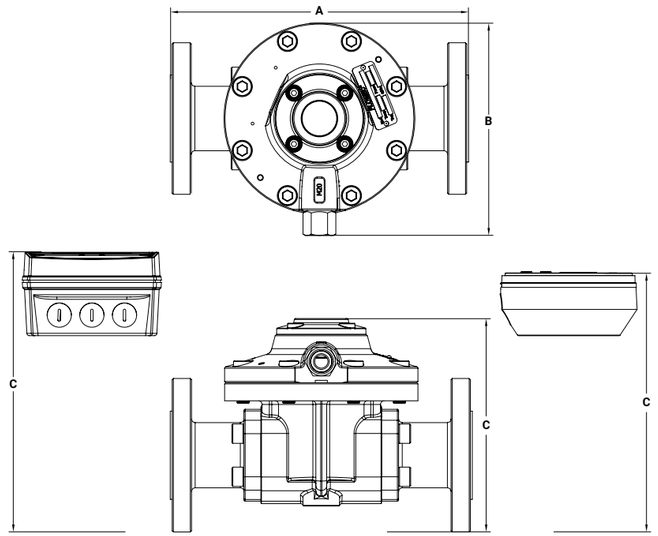


RT14



DIMENSIONS REFERENCE FLANGE

	Dimension "A"	Dimension "B"	Dimension "C"
OM025	9.3 in. (23.6 cm)	5.5 in. (14 cm)	5.6 in. (14.2 cm)
OM025 RT14	9.3 in. (23.6 cm)	5.7 in. (14.5 cm)	7.2 in. (18.3 cm)
OM025 RT40	9.3 in. (23.6 cm)	5.5 in. (14 cm)	7.8 in. (19.8 cm)
OM040	9.8 in. (24.9 cm)	7 in. (17.8 cm)	7 in. (17.8 cm)
OM040 RT14	9.8 in. (24.9 cm)	7 in. (17.8 cm)	8.5 in. (21.6 cm)
OM040 RT40	9.8 in. (24.9 cm)	7 in. (17.8 cm)	9.2 in. (23.4 cm)
OM050	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	7.7 in. (19.6 cm)
OM050 RT14	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	9.3 in. (23.6 cm)
OM050 RT40	10.9 in. (27.7 cm)	7.9 in. (20.1 cm)	9.9 in. (25.1 cm)
OM080	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	7 in. (17.8 cm)
OM080 RT14	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	8.7 in. (22.1 cm)
OM080 RT40	10.7 in. (27.2 cm)	7.3 in. (18.5 cm)	9.4 in. (23.9 cm)



DRILLING FRACKING

CHEMICAL ADDITIVE / SAFE AREA

OM SERIES
HIGH PRESSURE

SPECIFICATIONS

Oval Gear	Nominal Size	Flow Range*
OM004	⅛" (4 mm)	0.26-9.5 GPH (1-36 L/hr)
OM006	¼" (6 mm)	0.53-26.4 GPH (2-100 L/hr)
OM008	⅜" (8 mm)	4-145 GPH (15-550 L/hr)
OM004-OM008 Accuracy +@3cp:	± 1% (± 0.2% with optional RT14 with non-linearity correction)	
OM015	½" (15 mm)	0.26-10.6 GPM (1-40 L/min)
OM025	1" (25 mm)	2.6-10.6 GPM (10-150 L/min)
OM040	1½" (40 mm)	4-66 GPM (15-250 L/min)
OM050	2" (50 mm)	8-120 GPM (30-450 L/min)
OM015-OM050 Accuracy +@3cp:	± 0.5% (± 0.2% with optional RT14 with non-linearity correction)	
Repeatability:	Typically ± 0.03% of reading	
Temperature Rating:	-40°F to +300°F (-40°C to +150°C) refers to factory for lower temperature	
High Pressure Rating (Threaded Flow Meter)		
316 Stainless Steel:	5800 PSI (400 Bar)	OM004
		OM006
		OM008
		OM015
		OM025
		OM040
	4350 PSI (300 Bar)	OM050

**Maximum flow reduces as viscosity increases, see flow de-rating guide.*
Max recommended Pressure drop is 14.5 psi (1 bar).

FLOMEC® OM High Pressure Flow Meters provide volumetric measurement of clean liquids for high pressure. Suitable for applications including metering lubricants, chemicals, grease, additives, and other high viscosity fluids.

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Measures both high and low viscosity liquids
- Optional Exd I/IIB approval (ATEX, IECEx)
- High Pressure rated up to 5800 psi (400 bar) (4350 psi [300 bar] on 2 in. flow meter)

INDUSTRIES

- Aviation
- Mining Industries
- Power
- Chemical
- Pharmaceutical
- Food
- Paint
- Petroleum Industries
- Environmental

APPROVALS / WARRANTY

ATEX IEC IECEx CE 2 YR METER WARRANTY

OM SERIES
HIGH PRESSURE

DIMENSIONS - COMING SOON

Contact Product Support for more information on High Pressure OM Flow Meters and sizing.

DRILLING FRACKING

EGM SERIES
OVAL GEAR FLOW METER

SPECIFICATIONS

Technology:		Oval gear
Line Size:		⅛ in., ¼ in., ⅜ in., ½ in.
Accuracy (% of Reading):	EGM004	± 1.0%
	EGM006	± 1.0%
	EGM008	± 1.0%
	EGM015	± 0.5%
	EGM020	± 0.5%
Repeatability:		Typically ± 0.03%
Flow Range:		0.26-21.1 GPH (1-80 L/min)
Pressure Rating:	Aluminum	500 psi (34 bar)
	Stainless Steel	800 psi (55 bar)
Operating Temperature:		5˚F - +176˚F (-15˚C - +80˚C)
Pulse Output Type:		NPN Open Collector (Hall Effect Sensor)
Voltage Pulse:		5 - 24 V (dc)
Current Draw:		20mA max.
Switching Current:		10mA max.
Recommended Filtration:		200 mesh [75 µm]

FLOMEC®

All **FLOMEC® EGM Series Pulse Meters** are designed for volumetric flow measurement of clean liquids across a broad range of applications in the automotive, aviation, mining, power, chemical, pharmaceutical, and petroleum industries. The EGM Series will produce accurate and reliable measurements of almost all clean liquids, including but not limited to; alcohols, water based salts and solutions, corrosion inhibitors, brake and transmission fluids, greases, emulsifiers, adhesives, insecticides, and some aggressive chemicals.

FEATURES / BENEFITS

- Oval Gear technology for high accuracy and repeatability
- Direct volumetric measurement of flow
- Accuracy of reading is not affected by temperature and viscosity changes
- Measures high and low viscosity liquids
- Only two moving parts
- "Fuel Consumption" option can tolerate flow pulsations and has a built-in temperature sensor to correct for the fuel density changes *(not available in the US)*

FUEL CONSUMPTION

EGM Series Flow Meters with the Fuel Consumption option (Integral Option 2) are equipped with an integral PT100 temperature flow sensor which allows for accurate measurement of fuel consumption on combustion engines by correcting for temperature differences from the inlet to outlet of the engine. It also includes the Pulsating Flow electronics that eliminate the effect of pulsations in the flow.

APPLICATIONS (Typical application but not limited to)

- Petroleum Products
- Alcohols
- Saline Marine Environments

APPROVALS / WARRANTY

2 YR METER WARRANTY

The Fuel Consumption System is designed for diesel fuel which is considered a flammable fluid by U.S. standards. **The Fuel Consumption System does not have FM Approval and should not be sold for use inside the U.S.**

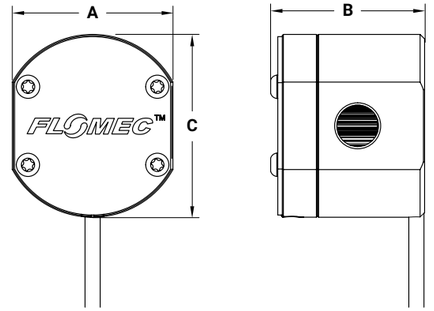
EGM SERIES
OVAL GEAR FLOW METER

Housing Material:	EGM004	EGM006	EGM008	EGM015	EGM020
Nominal Size:	⅛" (4 mm)	¼" (6 mm)	⅜" (8 mm)	½" (15 mm)	¾" (20 mm)
Nominal Flow Range* @ 3cP:	0.26-9.5 GPH 1 - 36 L/hr	0.5-27 GPH 2-100 L/hr	4-145 GPH 15-550 L/hr	.26-10.6 GPM 1-40 L/min	0.8-21 GPM 3-80 L/min
Flow Range @ 1cP	0.25-6.34 GPH 2-24 L/hr	1.32-21.13 GPH 5-80 L/hr	4.76-116.24 GPH 18-440 L/hr	0.39-8.45 GPM 1.5-32 L/min	1.32-16.91 GPM 5-64 L/min
Flow Range @ 7cP	0.13-9.51 GPH 0.5-36 L/hr	0.26-26.42 GPH 1-100 L/hr	3.96-145.29 GPH 15-550 L/hr	0.13-10.57 GPM 0.5-40 L/min	0.53-21.13 GPM 2-80 L/min
Flow Range @ 200cP	0.10-9.51 GPH 0.4-36 L/hr	0.18-26.42 GPH 0.7-100 L/hr	1.58-145.29 GPH 6-550 L/hr	0.10-10.56 GPM 0.4-40 L/min	0.47-21.13 GPM 1.8-80 L/min
Flow Range @ 500cP	0.06-7.13 GPH 0.25-27 L/hr	0.13-19.81 GPH 0.5-75 L/hr	0.25-145.29 GPH 2-550 L/hr	0.08-10.56 GPM 0.3-40 L/min	0.39-26.42 GPM 1.5-80 L/min
Flow Range @ 1000cP	0.03-4.22 GPH 0.12-16 L/hr	0.08-11.89 GPH 0.3-45 L/hr	0.39-95.10 GPH 1.5-360 L/hr	0.05-6.6 GPM 0.2-25 L/min	0.26-13.21 GPM 1-50 L/min
Max. Pressure (Al flow meters):	500 psi [34 bar]	500 psi [34 bar]	500 psi [34 bar]	290 psi [20 bar]	290 psi [20 bar]
Max. Pressure (SS flow meters):	800 psi [55 bar]	800 psi [55 bar]	500 psi [34 bar]	290 psi [20 bar]	290 psi [20 bar]
Recommended Filtration:	200 mesh [75 µm]			100 mesh [150 µm]	
Pulse Output Resolution - Standard Pulse/USG [Pulse/L]	10600 [2800]	4012 [1060]	2725 [720]	644 [170]	398 [105]
Pulse Output Resolution - Fuel Cons. Option Pulse/USG [Pulse/L]	10600 [2800]	4012 [1060]	681 [180]	161 [42.5]	99.5 [26.3]
RTD Specification (Integral Option 2)	Platinum Resistance Thermometer 100 Ohms (PT100) Class F0.3				

**Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended Pressure drop is 14.5 psi (1 bar).*
**When used to meter very low flow rates, the rate can jump, due to resolution (not accuracy).*

DIMENSIONS

Flow Meter Size	Dimension "A"	Dimension "B"	Dimension "C"
EGM004	1.8 in. (4.6 cm)	2 in. (5.1 cm)	1.4 in. (3.6 cm)
EGM006	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	1.5 in. (3.8 cm)
EGM008	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	1.9 in. (4.8 cm)
EGM015	2.8 in. (7.2 cm)	3.2 in. (8.2 cm)	2.6 in. (6.6 cm)
EGM020	2.8 in. (7.2 cm)	3.2 in. (8.2 cm)	3 in. (7.6 cm)



CHEMICAL ADDITIVE / SAFE AREA

G2 SERIES
NON-HAZARDOUS AREA (SAFE AREA ONLY)

SPECIFICATIONS

Technology:		Turbine				
Line Size:		½ in.	¾ in.	1 in.	1½ in.	2 in.
Tri-Clamp Fitting:		¾ in.	1 in.	1½ in.	2 in.	2½ in.
Accuracy (% of Reading):		**Turbine Only**		**Turbine w/ Computer**		
	(05) ½"	± 2.0%		± 1.5%		
	(07) ¾"	± 1.5%		± 1.0%		
	(10) 1"	± 1.5%		± 1.0%		
	(15) 1½"	± 1.0%		± 0.75%		
	(20) 2"	± 1.0%		± 0.75%		
Repeatability:		± 0.1% (PVDF is ± 0.3%)				
Material Housing:		316 Stainless Steel, Aluminum, PVDF				
Fitting Type:	NPT or ISO (Female) BSPT (ISO 7 designation is RC)					
	150# ANSI (S10, S15 & S20 only)					
	Tri-Clamp (Stainless Steel only) - Fitting size is one size bigger than flow meter size					
Flow Range:	(05) ½"	1-10 GPM (3.8-38 L/min)				
	(05) ½" *PVDF only*	1.2-12 GPM (4.5-45 L/min)				
	(07) ¾"	2-20 GPM (7.6-76 L/min)				
	(10) 1"	5-50 GPM (19-190 L/min)				
	(15) 1½"	10-100 GPM (38-380 L/min)				
	(20) 2"	20-200 GPM (76-760 L/min)				
Pressure Rating:						
Stainless Steel 316 SS		1,500 psi (102 bar)				
Aluminum		300 psi (21 bar)				
PVDF		100 psi (6.9 bar)				
ANSI Flange 316 SS		Flange Rule				
Sanitary Flange 316 SS		Limited by fitting, clamp size, & temperature				
Operating Temperature:						
Turbine without display:		-40°F to 250°F (-40°C to 121°C) -20°F to 180°F (-28°C to 82°C) *(PVDF)*				
with Display:		0°F to 130°F (-18°C to 54°C)*^				
with Hi-Temp. Riser (H9):		0°F to 185°F (-18°C to 85°C)*				

**See Ambient and Fluid Temperature Limits graph on the operating temperature range. Shown on next page.*
^Temp. rating of 140°F (60°C) can be reached with Lithium Batteries.

FLOMEC®

A full line of **FLOMEC® G2 Series Turbine Flow Meters** are available in a variety of housing materials. Rugged and dependable, the G2 Series offers:

- Stainless Steel for most non-volatile products
- Aluminum for non-volatile petroleum-based products
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Features highly visible Q9, battery-powered, LCD display; 2-year battery life
- Add the 4-20mA / Scaled Pulse Module to your turbine flow meter display electronics to provide an industry-standard analog signal for connection to a variety of chart recorders, display equipment, and process control equipment. See Optional Output Module details
- 11 preprogrammed engineering units plus 1 custom option: gallon, litre, imperial gallon, quart, ounce, acre-foot, millilitre, cubic foot, cubic centimetre, cubic metre, barrel
- High accuracy flow meter – view SPECIFICATIONS of each SKU once flow meter options are selected
- Modular design allows for use with output modules, flow sensors, and remote display kits; plug and play
- Internal parts are simple to replace for easy maintenance
- NPT, ISO 7, #150 ANSI Flange, and Tri-clamp fitting options
- Tri-clamp (not food grade) options available:
  - ¾ inch fitting for ½ inch flow meter
  - 1 inch fitting for ¾ inch flow meter
  - 1½ inch fitting for 1 inch flow meter
  - 2 inch fitting for 1½ inch flow meter
  - 2½ inch fitting for 2 inch flow meter

APPROVALS / WARRANTY

CE NEMA 4 IP65 2 YR METER WARRANTY

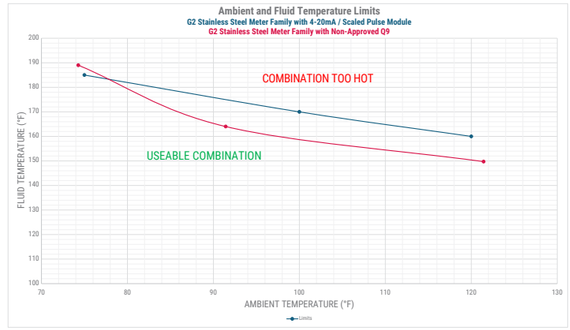
G2 SERIES
NON-HAZARDOUS AREA (SAFE AREA ONLY)

SPECIFICATIONS CONTINUED

Typical K-Factor:	(05) ½"	2,500 PPG (660 Pulses/L)
	(05) ½"	2,400 PPG (633 Pulses/L) *(PVDF)*
	(07) ¾"	1,100 PPG (291 Pulses/L)
	(10) 1"	565 PPG (149 Pulses/L)
	(10) 1"	540 PPG (142 Pulses/L) *(PVDF)*
	(15) 1½"	215 PPG (57 Pulses/L)
	(20) 2"	100 PPG (26 Pulses/L)
Wetted Materials:	Housing:	316 Stainless Steel or Aluminum
	Bearings:	96% Alumina Oxide Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Wetted Materials PVDF:	Housing:	PVDF (15% Carbon Fiber Filled)
	Bearings & Shaft:	98% Alumina Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon (Optional PTFE)
Out Frequency:	(05) ½"	42-420 Hz @ 1-10 GPM (3.8-38 L/min) / 45-450 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)
	(07) ¾"	37-370 Hz @ 2-20 GPM (7.6-76 L/min)
	(10) 1"	47-470 Hz @ 5-50 GPM (19-190 L/min) / 45-475 Hz @ 5-50 GPM (19-190 L/min) (PVDF)
	(15) 1½"	36-360 Hz @ 10-100 GPM (38-380 L/min)
	(20) 2"	33-330 Hz @ 20-200 GPM (76-760 L/min)
Calibration Report:	Comes standard with G2 Series flow meters.	
	N.I.S.T. – Certification available.	

APPLICATIONS (Typical application but not limited to)

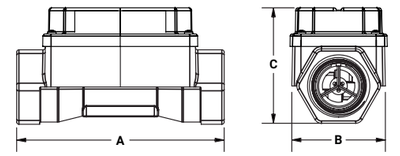
- Batching/Blending
- Water metering
- Industrial fluids
- Plating solutions
- Food and beverage processing *(non 3A applications)*
- Metering clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals *(sulfuric acid and bleach)*



DIMENSIONS *NOTE: 4-20mA module adds 0.9 in. (2.3 cm) to height*

Aluminum / Stainless Steel Models

	S05, ½ in.	S07, ¾ in.	S10, 1 in.	S15, 1½ in.	S20, 2 in.
Dimension "A"	4.2 in. (10.7 cm)	4.3 in. (10.9 cm)	4.5 in. (11.4 cm)	5.3 in. (13.5 cm)	6.3 in. (16 cm)
Dimension "B"	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.7 in. (6.9 cm)	3.4 in. (8.6 cm)
SS Dimension Q9 - "C"	2.1 in. (5.3 cm)	2.3 in. (5.8 cm)	2.6 in. (6.6 cm)	3.3 in. (8.4 cm)	3.8 in. (9.7 cm)
SS Dimension Blind - "C"	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	2.8 in. (7.1 cm)	3.5 in. (8.9 cm)	4.0 in. (10.2 cm)
Aluminum Dimension Q9 - "C"	2.5 in. (6.4 cm)	2.7 in. (6.9 cm)	2.9 in. (7.4 cm)	3.5 in. (8.9 cm)	3.9 in. (9.9 cm)
Aluminum Dimension Blind - "C"	2.7 in. (6.9 cm)	3.0 in. (7.6 cm)	3.1 in. (7.9 cm)	3.7 in. (9.4 cm)	4.1 in. (10.4 cm)

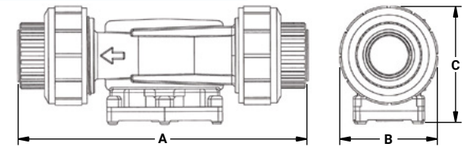


PVDF Models

	P05, ½ in.	P10, 1 in.
Dimension "A"	7.3 in. (18.5 cm)	8.1 in. (20.6 cm)
Dimension "B"	2.1 in. (5.3 cm)	2.8 in. (7.1 cm)
Dimension Q9 - "C"	3.9 in. (9.9 cm)	4.0 in. (10.2 cm)
Dimension Blind - "C"	4.1 in. (10.4 cm)	4.2 in. (10.7 cm)

NOTE: For representation purpose only. Actual product models vary in shape, design, etc.

ANSI Flange and Tri-clamp fitting dimensions not shown. For those dimensions, please refer to product manuals or our website GreatPlainsIndustries.com.



DRILLING FRACKING FUEL TRANSPORTATION FUEL DELIVERY FUEL DELIVERY FUEL DEPOT

CHEMICAL ADDITIVE / SAFE AREA

GREAT PLAINS INDUSTRIES

GPI / FLOMEC® / GPRO®

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