# QSE MAG FLOW METER

**Non-Intrusive (No moving parts)**

**Electromagnetic Flow Meter**

<table>
<thead>
<tr>
<th>Turf / Irrigation</th>
<th>Institutional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture Irrigation</td>
<td>Chilled water</td>
</tr>
<tr>
<td>Turf Irrigation Systems</td>
<td>Domestic water (hot and cold)</td>
</tr>
<tr>
<td>Micro Irrigation Systems</td>
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</tr>
<tr>
<td>HVAC</td>
<td>Energy sub-merging (BTU hot and cold)</td>
</tr>
<tr>
<td>EMS (Energy Management Systems)</td>
<td>Process (blow down, make up, boiler feed, etc.)</td>
</tr>
<tr>
<td>BAS (Building Automation Systems)</td>
<td></td>
</tr>
</tbody>
</table>

| Water • Water-Based Liquid Solutions |

## OSE MAG FLOW METER

Accuracy: +/- 0.5% of reading (from ¼ fps to 15 fps)

Flow Range: 0.16 to 600 GPM (0.63 to 2270 L/min)

Operating Temperature: ¼" to 2": 32° to 210° F (0° to 99° C)
3" - 4": 32° to 180° F (0° to 82° C)

Ambient Temperature: 0° to 140° F (-18° to 60° C)

Pressure: 150 PSI @ 73° F (10 BAR @ 23° C)

Line Sizes: ½", ¾", 1", 1 ½", 2", 3", 4"

Meter Body Materials: Noryl™ housing and flow tube

Fitting Connections: ½" to 2" - NPT (Male), BSP (Male) (Rc Thread) 3" & 4" ANSI Flanged - Polymer or Steel 3" & 4" DIN Flanged - Steel

# OM SERIES OVAL GEAR METER

**Medium to Heavy Viscosity Fluids**

<table>
<thead>
<tr>
<th>Oils</th>
<th>Chemical Additive Injection</th>
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<tbody>
<tr>
<td>Fuel</td>
<td>Bunker C Fuel Oil</td>
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</tr>
<tr>
<td>Diesel</td>
<td>Clean Fluids</td>
<td>Clean Fluids</td>
</tr>
<tr>
<td>Batching</td>
<td>Oil-Based Paints</td>
<td>Oil-Based Paints</td>
</tr>
<tr>
<td>Molasses</td>
<td>Industrial Fluids</td>
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</tr>
</tbody>
</table>

Accuracy: +/- 1% of reading (1/8" to 3/8") +/- 0.5% of reading (½" to 4")

Flow Range: 0.002 to 660 GPM (0.008 to 2,500 L/min)

Temperature: - 4° to 300° F (-20° to 150° C)

Pressure: 170 to 5,800 PSI (5 to 400 Bar)

Meter Sizes: 1/8" to 4" (4 to 100 mm)

Meter Body Materials: Aluminum, Stainless Steel and PPS

Fitting Connections: NPT, BSP, Sanitary and Flange

Output Options: Pulse and 4-20mA

# Water

**Oils • Molasses**
G SERIES TURBINE METER
Thin Viscosity Fluids Under 100 Centipoise

- Food & Beverage
- Petro Chemicals
- Fuel
- Pharmaceuticals
- Batching
- Process Control
- Chemical Feed Lines
- Irrigation
- High Water Volume Mixing

Accuracy: +/- 0.5% of reading
Flow Range: 0.6 to 600 GPM (3.0 to 2,271 L/min)
Temperature: -45° to 300° F (-268° to 426° C)
Pressure: 2,500 to 5,000 PSI (170 to 340 Bar)

Meter Sizes: 1/2” to 3” (15 to 80 mm)

Fitting Connections: NPT, BSP, Sanitary and ANSI Flange
Output Options: Pulse and 4-20mA

Food & Beverage
Pharmaceuticals
High Precision • High Pressure

“Look for the blue label.”

Harsh Chemicals • Integrated Display
Output Options

G2 SERIES TURBINE METER
General Purpose Meter

- Batching
- Blending
- Water
- Food & Beverage Processing
- Harsh Chemicals (Sulfuric Acid & Bleach)
- Monitoring Clean Fluids
- Chemical Feed Lines
- Industrial Fluids
- Plant Process Water

Accuracy: +/- 1.5% to 0.75% of reading (Depending on Pipe Size)
Flow Range: 1.0 to 200 GPM (3.8 to 760 L/min)
Temperature: -40° to 250° F, 140° F without display (-40° to 121° C, 60° C without display)
Pressure: 100 to 3,000 PSI (6.9 to 207 Bar)

Meter Sizes: 1/2” to 2” (15 to 50 mm)

Meter Body Materials: Aluminum, Stainless Steel, Brass and PVDF
Fitting Connections: NPT, ISO, Sanitary, 150# ANSI and True Union
Output Options: Pulse and 4-20mA

Harsh Chemicals • Integrated Display
Output Options

TM SERIES TURBINE METER
Light-Weight, In-Line Water Meter

- Batching
- Irrigation
- Blending
- Water Treatment Processing
- Water Based Cooling Systems
- Sub-Metering of Facility Water Usage
- Plant Process Water
- Monitoring Clean Fluids

Accuracy: +/- 3% of reading
Flow Range: 10 to 600 GPM (3.8 to 2271 L/min)
Temperature: 32° to 140° F (0° to 60° C)
Pressure: 225 PSI at 73° F (15.3 Bar at 23° C)

Meter Sizes: 1/2” to 4” (15 to 100 mm)

Meter Body Materials: PVC Plastic
Fitting Connections: NPT, BSP, #150 ANSI or DIN Flange and Spigot
Display/Output Options: Blind Pulse, Display with Pulse, and Display only

Water • Schedule 80 PVC
A1 SERIES RATE & TOTAL METER
Self-Contained Application Specific Meters

- Fuel Transfer
- Plant Process Water
- Batching / Blending
- Chemical Feed Lines
- Aluminum - Fuel Products
- Nylon - Water / Non-Aggressive Chemicals
- Ag Chemicals
- Solvents / Glycol

Water • Fuel
Chemicals • Field Calibration
Higher Accuracy

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<tr>
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<th>01N Turbine</th>
<th>01A Turbine</th>
<th>FM-300 H/R</th>
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<td>300 PSI (21 Bar)</td>
<td>50 PSI (3.4 Bar)</td>
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<td>Meter Sizes:</td>
<td>1” (25mm)</td>
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<td>Meter Body Materials:</td>
<td>Aluminum, Nylon and PBT Polyester</td>
<td></td>
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<td>Fitting Connections:</td>
<td>NPT and BSP</td>
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“Look for the red label.”

ECONOMY METERS - 01N, 01A & FM-300
Thin Viscosity Fluids Under 100 Centipoise

- Water
- Fuel
- Chemicals

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“Look for the silver label.”

Water • Fuel • Chemicals
DP SERIES INSERTION IMPELLER METER
Simple Flow Measurement for Clear Fluid Applications

- Batching / Blending
- Irrigation
- Industrial Chemicals
- Water/Waste Water Treatment Processing
- HVAC (Hot & Chilled Water)
- Municipal & Industrial Water Processing
- HVAC (Hot & Chilled Water)
- Municipal & Industrial Water

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<th>Accuracy:</th>
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<tr>
<td>Flow Range:</td>
<td>4.0 to 780,000 GPM (0.015 to 2940 L/min) Depending on pipe size</td>
</tr>
<tr>
<td>Flow Velocity Range:</td>
<td>1 to 33 ft/s (0.3 to 10 m/s)</td>
</tr>
<tr>
<td>Temperature:</td>
<td>-40° to 300° F (-40° to 150° C)</td>
</tr>
<tr>
<td>Pressure:</td>
<td>1,200 PSI (80 Bar)</td>
</tr>
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<td>Pipe Sizes:</td>
<td>1-1/2&quot; to 100&quot; (40 to 2500 mm)</td>
</tr>
<tr>
<td>Meter Body Materials:</td>
<td>Stainless Steel</td>
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Water   •   Large Pipes   •   Industrial Chemicals

ECONOMY METERS - 02N & 02A SCALED PULSE
Works with an Endless Variety of Applications

- Irrigation
- Data Logger
- Wireless Communications
- Programmable Logic Controller (Batch Control)
- OEM (Connect to Flow Switch - Low Cost Meter)
- Building Automation (Chillers)

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<td>Fitting Connections:</td>
<td>NPT, BSPP and BSPT</td>
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Water   •   Fuel   •   Chemicals
**QSTAR ULTRASONIC METER**
Non-Intrusive Flow Measurement

- Power Stations
- Food & Beverage
- Building Services Engineering
- Water
- Waste Water
- Chemicals & Petrochemicals

| Accuracy: | Up to +/- 1% of reading |
| Flow Velocity Range: | +/- 98.42 ft/sec (30 m/s) |
| Operating Temperature: | -4° to 140° F (-20° to 60° C) |
| Transducer Temperature: | -40° to 300° F (-40° to 150° C) |
| Pipe Sizes: | ½” to 240” (10 to 600 mm) |

**LM51DN LUBE METER**
Economy Positive Displacement Meter

- Engine Oils
- Hydrocarbons
- Transmission Fluid
- Paints
- Lubricants
- Liquid Soaps

| Accuracy: | +/- 0.5% of reading |
| Flow Range: | 0.26 - 7.8 GPM (1 - 30 L/min) @ 5 - 1,000 cp |
| Temperature: | -4° to 140° F (-20° to 60° C) |
| Pressure: | 1,500 PSI (103 Bar) |
| Meter Body Materials: | Aluminum |
| Fitting Connections: | 1/2” NPT |

**Engine Oils • Transmission Fluid • Maximum 1,000 Centipoise**
ELECTRONIC CHOICES

RT40
- Total & Rate Display

RT14
- Total & Rate
- Signal Outputs
- High & Low Alarm Outputs
- 4-20 mA Output
- Intrinsically Safe (Optional)

EB10
- Batch Controller
- Total & Rate
- Signal Outputs

E Series (E012 / E018)
- Total & Rate
- Signal Outputs
- Explosion Proof Display
- 4-20 mA (Isolated)
- HART Protocol (E018)

F Series (F018 / F115 / F127 / F130)
- Total & Rate
- Pulse Outputs
- High / Low Alarm Outputs (F018)
- 4-20 mA Output (F018)
- Batching (F130)
- HART Protocol (F018)
- Temperature Compensation (F127)

DISPLAYS AND TRANSMITTERS

GG Series
- Display with Pulse Output

GX Series
- Display with 4-20 mA Output

GA Series
- 4-20 mA Output

SC Series
- Scaled Pulse Output