POSITIVE DISPLACEMENT FLOW METERS
MX-SERIES & M-SERIES

Introduction

As the global oval gear flow meter technology leader with over 50 years experience, Macnaught offers two comprehensive product ranges that solve a number of challenging flow conditions. Our latest innovation is the MX-Series range of products and our original industry standard, the M-Series range. Macnaught flow meters are designed to provide the highest level of accuracy and reliability while providing best in class cost of ownership benefits.

The **MX-SERIES** is the latest innovation featuring:
- High precision billet construction for enhanced material integrity and process reliability
- Programmable digital display and pulse output options
- Unique bayonet assembly for added versatility and flexibility

The **M-SERIES** is Macnaught’s original range featuring:
- Established design and cast construction for proven performance
- Mechanical and pulse output options

Advantages

- Oval gear technology means high accuracy of ±0.5% and repeatability of ±0.03%
- Suitable for viscous fluids
- Excellent cost of ownership
- High viscosity, temperature, pressure & intrinsically safe models available
- Industry leading delivery turnaround
- Accuracy unaffected by changes in viscosity
- Minimal maintenance required
- Ease of installation - no flow conditioning required
- Compact overall lay length means no support issues & superior design capabilities over other flow devices
- Exceptional turn down ratio
- Flow ranges from 0.13 GPH to 317 GPM in sizes 1/4” to 4”
### Common Applications

- Bio diesel blending & production
- Diesel fuel additive blending
- Fuel measurement & monitoring systems – mining
- Ethanol blends & production
- Heating oil measurement
- Boiler fuel measurement
- Bunker fuel/vessel fuel measurement & monitoring – marine
- Lubricant blending & dispensing
- Hydraulic fluid dispensing
- Test stands
- Transmission fluid/hydraulic oil/ fluid blending/dispensing
- Epoxy/glue production – ratio blending
- Polyurethane foam – ratio blending
- Liquid polymer manufacturing
- Agriculture chemical blending/dispensing
- Ink blending & dispensing
- Latex paint manufacturing
- Solvent blending & dispensing
- Sealants & adhesives manufacturing
- Industrial paints & coatings manufacturing
- Glycol(s) process measurement
- Pulp & paper – wax finishes, dyes and perfume additive loops
- Gel, shampoo, perfume & cream dispensing

### Range Overview

<table>
<thead>
<tr>
<th>Material of construction</th>
<th>MX - Series</th>
<th>M - Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billet construction, Stainless Steel, Aluminum</td>
<td>Cast construction, Stainless Steel, Aluminum, PPS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Process Connection</th>
<th>MX - Series</th>
<th>M - Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSP, NPT, ANSI Class 150, JIS 10K, DIN, PN16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>MX - Series</th>
<th>M - Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std Pulse, ExD &amp; Intrinsically Safe Pulse, High Temp Pulse, 4 - 20mA</td>
<td>Standard Pulse, Standard Mechanical Register, Heavy Duty Mechanical Register</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow ranges</th>
<th>MX - Series</th>
<th>Turndown ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>0.13 - 26 GPH</td>
<td>200:1</td>
</tr>
<tr>
<td>1/4”</td>
<td>4 - 132 GPH</td>
<td>33:1</td>
</tr>
<tr>
<td>1/2”</td>
<td>0.5 - 8 GPM</td>
<td>15:1</td>
</tr>
<tr>
<td>3/4”</td>
<td>0.8 - 21 GPM</td>
<td>26:1</td>
</tr>
<tr>
<td>1”</td>
<td>1.6 - 32 GPM</td>
<td>20:1</td>
</tr>
<tr>
<td>1.5”</td>
<td>2.6 - 66 GPM</td>
<td>25:1</td>
</tr>
<tr>
<td>2”</td>
<td>4 - 130 GPM</td>
<td>33:1</td>
</tr>
<tr>
<td>3”</td>
<td>5 - 194 GPM</td>
<td>36:1</td>
</tr>
<tr>
<td>4”</td>
<td>31.7 - 317 GPM</td>
<td>10:1</td>
</tr>
</tbody>
</table>

### Approvals

- Intrinsically Safe & Explosion Proof (Class 1 / Div 1) Models available - consult factory

---

**NEED A QUOTE?**

[https://www.macnaughtusa.com/request-for-quote/]

Macnaught Americas
614 S Ware Blvd
Tampa FL 33619
(813) 628-5506

Need information?
info@macnaughtusa.com