

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 $\pm 0.5\%$ and repeatability of $\pm 0.03\%$
- 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"



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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

	MX - Series	M - Series
Materials of construction	Billet construction, Stainless Steel , Aluminum	Cast construction, Stainless Steel, Aluminum, PPS
Process Connection	BSP, NPT, ANSI Class 150, JIS 10K, DIN, PN16	
Output	Std Pulse, ExD & Intrinsically Safe Pulse, High Temp Pulse, 4 - 20mA	Standard Pulse, Standard Mechanical Register, Heavy Duty Mechanical Register

	Flow ranges		Turndown ratio
1/4"	0.13 - 26 GPH	0.5 - 100 L/hr	200:1
1/4"	4 - 132 GPH	15 - 500 L/hr	33:1
1/2"	0.5 - 8 GPM	2 - 30 L/min	15:1
3/4"	0.8 - 21 GPM	3 - 80 L/min	26:1
1"	1.6 - 32 GPM	6 - 120 L/min	20:1
1.5"	2.6 - 66 GPM	10 - 250 L/min	25:1
2"	4 - 130 GPM	15 - 500 L/min	33:1
3"	5 - 194 GPM	20 - 733 L/min	36:1
4"	31.7 - 317 GPM	120 - 1200 L/min	10:1

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



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

Need information?
info@macnaughtusa.com