

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 delivers high accuracy of $\pm 0.5\%$ and repeatability of $\pm 0.03\%$
- Suitable for viscous fluids
- Low cost of ownership
- Industry leading supply 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 alternative flow devices
- Exceptional turn down ratio
- Flow ranges from 0.13 GPH to 317 GPM in sizes 1/4" to 4"
- High viscosity, temperature, pressure & intrinsically safe models available



MX-SERIES



M-SERIES



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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, Aluminium	Cast construction, Stainless Steel, Aluminium, PPS
Process Connection	BSP, NPT, ANSI Class 150, JIS 10K, DIN PN16	
Output	Standard Pulse, Intrinsically Safe Pulse, High Temp. Pulse, 4 - 20mA output	Standard Pulse, Standard Mechanical Register, Heavy Duty Mechanical Register

	Flow ranges		Turndown ratio
¼"	0.13 - 26 GPH	0.5 - 100 L/hr	200:1
¼"	4 - 132 GPH	15 - 500 L/hr	33:1
½"	0.5 - 8 GPM	2 - 30 L/min	15:1
¾"	0.8 - 21 GPM	3 - 80 L/min	26:1
1"	1.6 - 32 GPM	6 - 120 L/min	20:1
1½"	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

Contact Information

