

Macnaught Fuel & Oil Flow Meters

The 'F' range of oval gear fuel and oil meters from Macnaught are positive displacement oval gear flowmeters that are optimised for fuel and oil measurement applications.

Macnaught fuel and oil meters are constructed utilising a robust aluminium body suitable for use in the harshest environments. Our bearingless rotors provide exceptionally low pressure drop and can even be used in gravity fed applications. This unique rotor design ensures minimal wear resulting in many years of reliable service. This approach has proven over time to provide consistently accurate flow measurement that is not affected by variations in temperature, viscosity, or pressure.

Another benefit of our unique rotor design is simplicity of repair. With only 2 moving parts, our meters are simple to repair, require minimal repair parts stock, and can even be repaired inline, resulting in less downtime.

Oval Gear flowmeters are ideally suited to applications requiring accurate dispense quantities. Measurement of very low flow rates, pulsating flow, small batch sizes, viscous products, and non-conductive liquids are all ideal uses for oval gear meters. Because these meters don't require flow conditioning, no straight piping runs are required, so they can be used in installations where space is limited without affecting performance.

This range of meters has been specifically designed to provide reliable metering solutions for the fuel transfer, dispensing and blending style of applications.

Applications

- Service and fueling trucks
- Fuel depots
- Portable fueling systems
- Bio-Diesel blending and production
- Lubricant blending and dispensing
- Hydraulic fluid dispensing and test stands
- Boiler and generator fuel consumption
- Fuel consumption for mining, construction and military vehicles
- Bitumen/ asphalt production

Features

Designed and Manufactured in Australia

- Quality is controlled from concept to completion by Macnaught
- Improved Availability
- 2 Year Warranty

Electronic Displays

- All displays have resettable and non-resettable totals
- 4-20mA and pulse output versions
- Batch controllers
- Meter mounted and remote displays
- Compact version for use with small meters or where space is limited

Aluminium Body

- Robust Design
- Suitable for use in the harshest outdoor environments

Bearingless PPS Rotors (1/4" - 2" models)

- Minimise Wear
- Low Pressure Drop
- Quiet Operation
- Simple Repairs
- Reduced Friction

Aluminium Rotors (3" & 4" models)

Modular End Connections (3" & 4" models)

- Flexible Inventory for Faster Delivery
- Wide Variety of Connection Types
- Threaded Mounting Holes

Strainers and Air Eliminators Available

For pricing or any further information, please contact Omni Instruments Ltd.

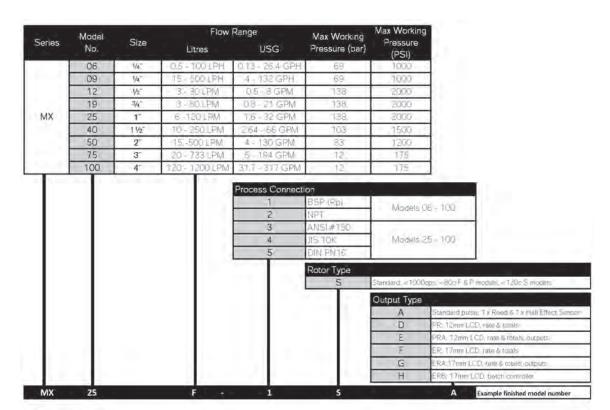


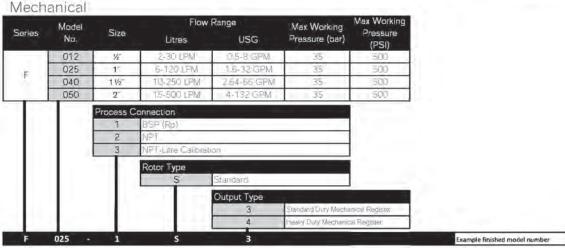
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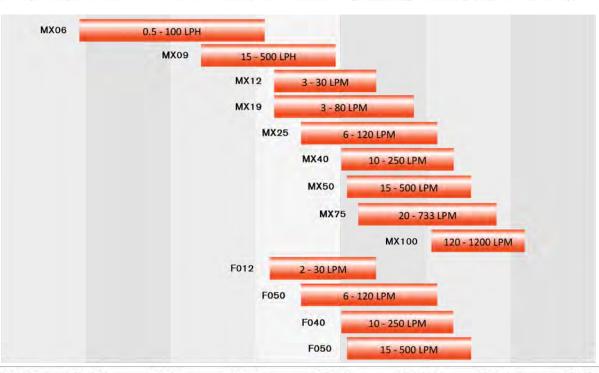
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Flow Measurement Solutions





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Macnaught Pulser Output Options

	TYPE A TYPE B		TYPE N	TYPE T
Pulser	macnaught a			
Туре	STANDARD PULSE	INTRINSICALLY SAFE	INTRINSICALLY SAFE	HIGH TEMP
Output Type	Pulser	Pulser	Pulser	Pulser
Switch Type	Reed/Hall Effect	NPN open collector	NAMUR	NPN open collector
Construction	PP (polypropylene)	Stainless Steel	CuZn, Chrome Plated	Stainless Steel
IP rating	IP 67	IP 67	IP 67	IP 67
Max Temp	120ºC/248ºF	85ºC/185ºF	85ºC/185ºF	150ºC/302ºF
Intrinsically Safe (Ex ia)	х	√	√	х
Approvals		ATEX, CSA, FM II I G Ex ia IIC T6	ATEX, IECEx II G Ex ia IIC T4T6 Ga II 1 D E x ia IIIC T115°C Da	

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Macnaught Digital Display Options

	TYPE D	TYPE E	TYPE F	TYPE G	TYPE H
Meter Mount		The state of the s			
Model	PR	PRA	ER	ERA	ERB
Construction	PP (polypropylene)	PP (polypropylene)	Aluminium	Aluminium	Aluminium
Digits Size	12mm	12mm	17mm	17mm	17mm
IP Rating	IP 67	IP 67	IP 67	IP 67	IP 67
Max Temp	60°C/140°F	60°C/140°F	80°C/176°F	80°C/176°F	80°C/176°F
Accumulated Total	√	√	√	√	√
Resettable Total	√	√	√	√	√
Flow Rate	√	√	√	√	√
4-20 mA (passive)	х	√	Х	√	х
Pulse Output	х	√	Х	√	х
Hi/Low Flow Alarm	Х	√	Х	х	х
Batch Control	х	х	Х	х	√
Remote Mount	maconaght DP	macroaught CE 9 8 9 9	# # # # # # # # # # # # # # # # # # #	9	
Model	PR-WM	PRA-WM	ERX-RMP (RMA)	ERAX-RMP (RMA)	ERBX-RMP (RMA)
Construction	PP (polypropylene)	PP (polypropylene)	Aluminium or PP	Aluminium or PP	Aluminium or PP
IP Rating	IP 67	IP 67	IP 67	IP 67	IP 67
Intrinsically Safe (Ex ia)	х	Х	√	V	V
Approvals			ATEX, IECEx	ATEX, IECEx	ATEX, IECEx

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