

Truflo® — MF-1000

In-Line Magnetic Flow Meter

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment



truflo®

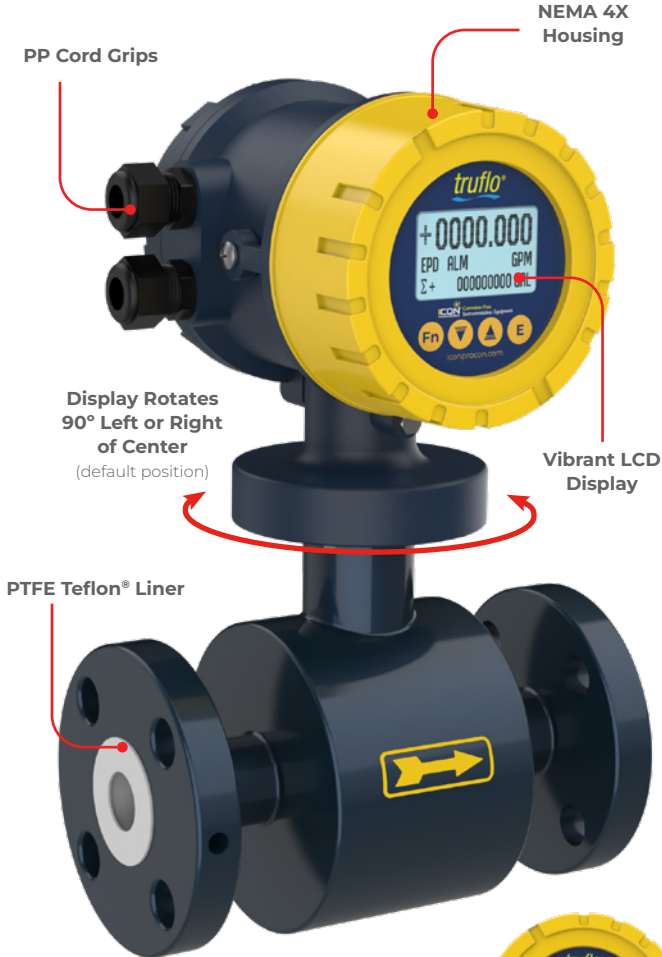
Truflo® — MF-1000

In-Line Magnetic Flow Meter



- ✔ Full Port | No Pressure Drop
- ✔ No Moving Parts | No Clog Design
- ✔ Integral Display | Flow | Total | All-in-One

- ✔ Full Port Design
- ✔ High Accuracy: $\pm 0.5\%$ F.S.
- ✔ 4-20mA | Frequency Pulse | RS-485 | HART
- ✔ Standard PTFE Teflon® Liner
- ✔ Excellent Chemical Resistance
- ✔ NEMA 4X | IP 68 Protection



Unmatched Precision and Durability: Discover the Truflo® MF-1000 Magnetic Flow Meter for All Your Challenging Applications

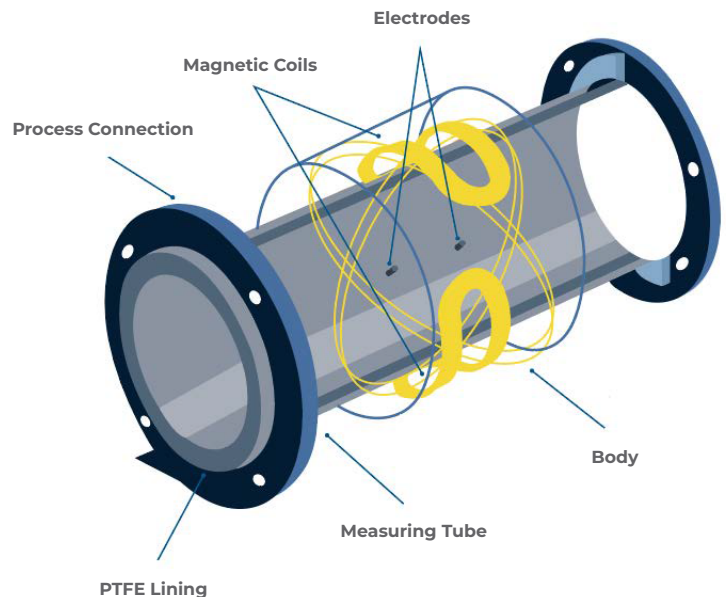
The Truflo® MF-1000 Series Flanged Magnetic Flow Meters provide long-lasting, reliable performance in even the most challenging applications. The MF-1000 is a microprocessor-based flow transmitter that has been engineered for high performance, easy installation, commissioning and maintenance.

The MF-1000 is truly robust, cost-effective and suitable for all-round applications and has a measuring accuracy of $\pm 0.5\%$ of the flow rate.

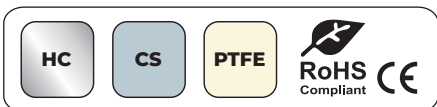
The Truflo® MF-1000 Series comes standard with a PTFE Teflon® liner, Carbon Steel body and Hastelloy C Electrodes. However, a variety of materials are available to ensure the flow meter is chemically compatible with your application.

Magnetic Flow Meter Structure

Working Principle Based on Faraday's Law of Electromagnetic Induction



- ✔ Carbon Steel Body
- ✔ PTFE Teflon® Liner
- ✔ Hastelloy C Electrode



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In-Line Magnetic Flow Meter



Specifications

Flow Direction	Positive Negative Net Flow
Range Ratio	20:1
Repeatability	±0.1%
Accuracy	±0.5%
Signal Output	4-20mA Frequency Pulse RS-485 HART
Protection Class	IP 68
Power Supply	24 VDC 120 VAC Battery

Flow Rates

Size (inch)	DN (mm)	Velocity (ft/s)												
		0.98	1.3	1.6	3.3	6.6	9.9	13.1	16.4	19.6	23	26	29.5	33
½"	15	0.88	1.3	1.6	2.6	5.7	8.4	11.0	14.0	16.7	19.8	22.4	25	27.7
¾"	20	1.6	2.2	2.4	4.8	10.1	14.9	19.8	25.0	29.9	34.8	36.9	44	48.4
1"	25	2.6	3.0	4.0	7.9	15.4	23.3	31.2	38.1	48.4	52.8	61.6	70.4	74.8
1 ¼"	32	4.0	5.2	6.1	12.8	25.5	38.3	52.8	61.6	74.8	88.0	101.3	114.5	123.2
1 ½"	40	6.1	7.9	10.1	19.8	39.6	61.6	79.2	101.3	118.9	140.9	158.5	180.7	198.1
2"	50	9.6	12.3	15.4	31.2	61.4	92.4	123	154	185	216	251	282	308
2 ½"	65	15.6	21.1	26.4	52.8	106	157	207	264	317	370	422	440	484
3"	80	24	32	40	79	157	251	317	396	440	528	616	704	793
4"	100	37	48	62	123	251	374	440	616	784	837	969	1100	1233
5"	125	61.4	75	97	194	352	572	748	967	1145	1321	1541	1717	1937
6"	150	88	110	141	282	528	837	1100	1365	1673	1937	2201	2510	2774
8"	200	150	198	251	484	969	1497	1981	2466	2950	3478	4359	4402	4843
10"	250	238	313	387	793	1541	2334	3082	3875	4403	5283	6164	6604	7885

Model Selection



Contact Factory for Alternative Lining Materials:
PFA | PUR(Polyurethane) | Neoprene | FEP Teflon®

MF1000 — In-Line Mag Meter	
Size	Part Number
½"	MF1000B-15-X-X-X-X-X-X
¾"	MF1000B-20-X-X-X-X-X-X
1"	MF1000B-25-X-X-X-X-X-X
1½"	MF1000B-40-X-X-X-X-X-X
2"	MF1000B-50-X-X-X-X-X-X
3"	MF1000B-80-X-X-X-X-X-X
4"	MF1000B-100-X-X-X-X-X-X
6"	MF1000B-150-X-X-X-X-X-X

MF1000 — In-Line Mag Meter	
Size	Part Number
8"	MF1000B-200-X-X-X-X-X-X
10"	MF1000B-250-X-X-X-X-X-X
12"	MF1000B-300-X-X-X-X-X-X
14"	MF1000B-350-X-X-X-X-X-X
16"	MF1000B-400-X-X-X-X-X-X
18"	MF1000B-450-X-X-X-X-X-X
20"	MF1000B-500-X-X-X-X-X-X

MF1000B-15-A-A-A-A-A-A (MF1000Bxi-15-A-A-A-A-A-B)
xi = Explosion Proof ▶ Consult Factory for Pricing

Electrode Type

- A: Hastelloy Hc
- B: Hastelloy Hb
- C: Tantalum
- D: Titanium
- E: 316 SS
- F: Tungsten Carbide

Inner Lining Material

- A: PTFE Teflon®
- B: Neoprene
- C: Polyurethane
- D: FEP Teflon®

External Flange & Housing Material

- A: Carbon Steel
- B: Stainless Steel

Rating Pressure Level

- A: 4.0 MPa

Convertor

- A: Integrate Type
- B: Remote

Voltage Supply

- A: 24VDC
- B: Battery
- C: 120VAC