

# Truflo® — MF-1000

## In-Line Magnetic Flow Meter

**ICON**™ Corrosion-Free  
PROCESS CONTROLS Instrumentation Equipment

## DATA SHEET

*truflo*®



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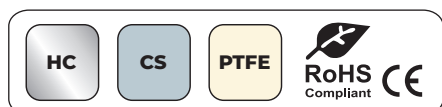
## In-Line Magnetic Flow Meter

*truflo*®

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



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



- ✓ 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

### Equipment protection that can handle the pressure

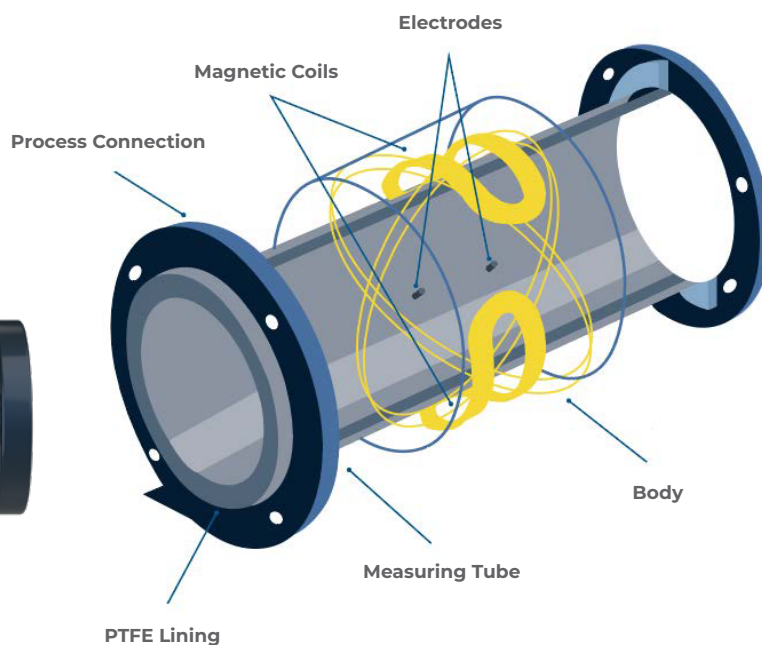
The Truflo® MF1000 Series Flanged Magnetic Flow Meters provide long-lasting, reliable performance in even the most challenging applications. The MF1000 is a microprocessor-based flow transmitter that has been engineered for high performance, easy installation, commissioning and maintenance.

The MF1000 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® MF1000 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



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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

Speed (m/s)		0.3	0.4	0.5	1	2	3	4	5	6	7	8	9	10
Flow (m3/h)														
Size (mm)	In													
15	½"	0.2	0.3	0.4	0.6	1.3	1.9	2.5	3.2	3.8	4.5	5.1	5.7	6
20	¾"	0.4	0.5	0.6	1.1	2.3	3.4	4.5	5.7	6.8	7.9	9	10	15
25	1"	0.6	0.7	0.9	1.8	2.5	4.5	7.1	8.8	11	12	14	16	20
40	1 ½"	1.4	1.8	2.5	4.5	9	14	18	23	27	32	36	41	45
50	2"	2.2	2.8	3.5	7.1	14	21	28	35	42	49	57	64	70
80	3"	5.4	7.2	9	18	36	54	72	90	100	120	140	160	210
100	4"	8.4	11	14	28	57	85	110	140	170	190	220	250	280
150	6"	20	25	32	64	120	190	250	310	380	440	500	570	630
200	8"	34	45	57	110	220	340	450	560	670	790	900	1000	1100

### Model Selection

MF 1000B - 25 - A - D - B - A - A - B

Nominal Diameter	Electrode Type	Inner-lining Material	External Flange & Housing Material	Voltage Supply
<b>15: ½"</b> <b>20: ¾"</b> <b>25: 1"</b> <b>40: 1 ½"</b> <b>50: 2"</b> <b>80: 3"</b>	<b>A:</b> Hastelloy Hc <b>B:</b> Hastelloy Hb <b>C:</b> Tantalum <b>D:</b> Titanium <b>E:</b> 316 SS <b>F:</b> Tungsten Carbide	<b>A:</b> PTFE Teflon® <b>B:</b> Neoprene <b>C:</b> Polyurethane <b>D:</b> FEP Teflon®	<b>A:</b> Carbon Steel <b>B:</b> Stainless Steel	<b>A:</b> 24 VDC <b>B:</b> Battery <b>C:</b> 120 VAC