

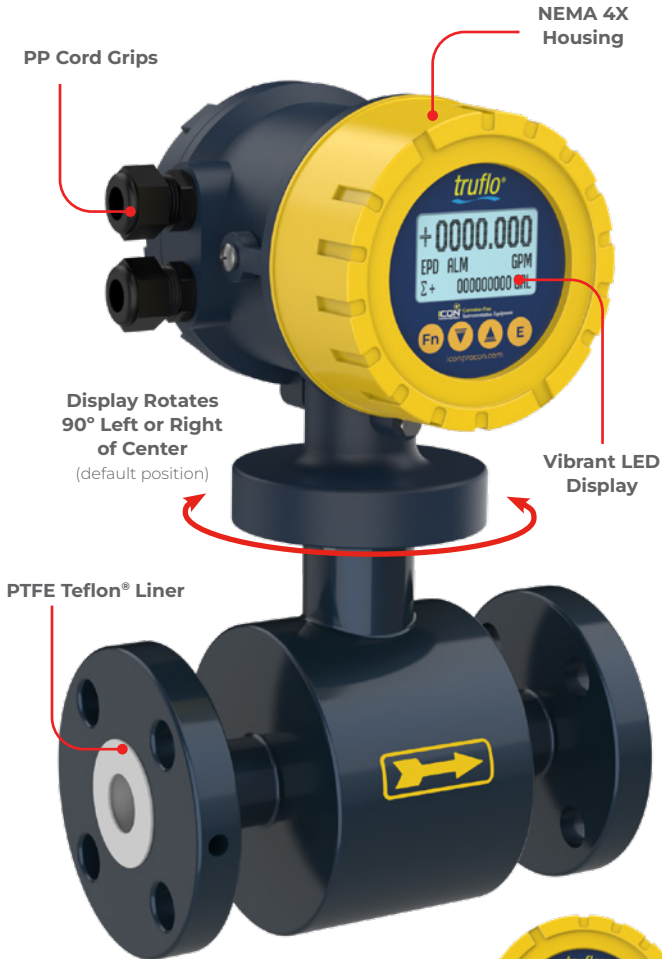
Truflo® — MF-1000

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

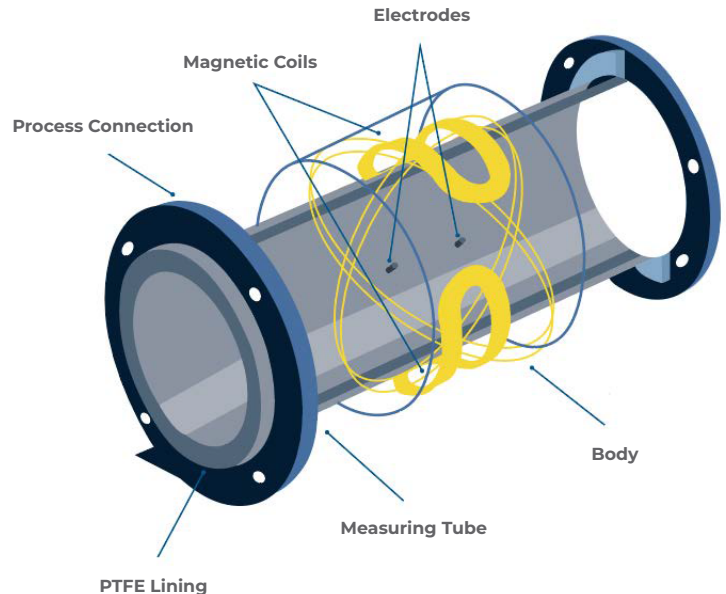
The Truflo® MF-1000 Series Flanged Magnetic Flow Meters provide long-lasting, reliable performance in even the most challenging applications. The MF-1000 is a microprocessor-based flow transmitter that has been engineered for high performance, easy installation, commissioning and maintenance.

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.

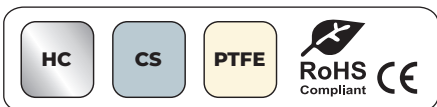
The Truflo® MF-1000 Series comes standard with a PTFE Teflon® liner, Carbon Steel body and Hastelloy C Electrodes. However, a variety of materials are available to ensure the flow meter is chemically compatible with your application.

Magnetic Flow Meter Structure

Working Principle Based on Faraday's Law of Electromagnetic Induction



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



Truflo® — MF-1000

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-B (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