



TM03A/TM03D, 3/8"

Anodized Aluminum / Stainless Steel

- Only two moving parts
- No metal to metal contact in chamber or bearings
- Electronic = Gland-less meter
- Patented 'Wave Form' oval gear design
- Low differential pressure for maximum flow

Specifications

- **Nominal Capacity on 1 cSt viscosity with 10:1 turndown:**
3.0 GPM = 11 lpm
180 GPH = 680 lph
- **Pressure Rating at 100°F (38°C), with 3:1 Safety Factor:**
TM03A : 1500 PSI = 103 BAR
TM03D : 1500 PSI = 103 BAR
- **Temperature Rating:**
Design : -40°F/+300°F = -40°C to +150°C
*Temperature ratings under UL & ATEX listings may differ.
See register specifications for temperature range rating for electronics.*
- **Connections:**
3/8" ports in meter case, FNPT standard, FBSP optional.
- **Materials:**
TM03A Case : Hardcoat anodized aluminum
Seal : Viton™ standard, Teflon™ optional
TM03D Case : 316 Stainless Steel
Seal : Teflon™ standard.
Posts : 316SS Hard Chrome coated
Gears Std. : PPS (polyphenylene sulfide resin), SS optional for TM03D
- **Pulsers:** Hall Effect or Reed Switch (for battery powered registers)
- **Nominal Pulse Resolution:**

	On 1 cSt viscosity	On 100 cSt viscosity
Hall Effect:	±2800 PPG (740 ppl)	±2660 PPG (703 ppl)
Reed Switch:	±700 PPG (185 ppl)	±665 PPG (176 ppl)



Flow Sensor without display



With CC56 register in NEMA 4X (= water & dust proof) enclosure



With CC56 register in NEMA 7/4X (= explosion & water proof) enclosure

Meter Performance

Linearity* Over 10:1 turn-down from nominal capacity: ±1.0%
with electronic enhancements: ±0.5%

* This flow meter will operate with up to 30:1 turn-down. However, extended operating range, will result in greater flow meter error at the low end.

Repeatability 0.5% under constant conditions

Approvals

- **Flow Meter** CE mark
- **Pulsers** UL, cUL & ATEX listed; Intrinsically Safe when powered through a UL or ATEX listed barrier with appropriate rating.

Optional Registration, Signals & Accessories

- **Registers, Totalizers & Batch Controllers**
CC56 Battery powered register, NEMA 4X or NEMA 7/4X
ELNC AC and DC, NEMA 4X
PC58 DC, Totalizer/Rate Meter
PDB180 AC or DC batch controller, opt. 4-20 mA signal
EMR³ DC, register/preset, serial port for PC interface, optional with temperature compensation
- **Signal Conditioners:**
EL6630 **PIA-300**, Pulse Isolator, Amplifier & Splitter, with sinking & sourcing output signal.
EL0410-7 **SCL**, Scaler, Calibrator and/or Linearizer for EMR³ please consult for selection & pricing.

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ISO 9001:2000 Certified

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