

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 : $-40^{\circ}F/+300^{\circ}F = -40^{\circ}C$ to $+150^{\circ}C$ 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	s :	316SS Hard Chrome coated
Gear	s Std. :	PPS (polyphenylene sulfide resin), SS optional for
		TM03D

• Pulser: Hall Effect or Reed Switch (for battery powered registers)

• Nominal Pulse Resolution:

Tuthill Transfer Systems

	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)

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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
EMR ³	DC, register/preset, serial port for PC interface, optional with temperature compensation

Signal Conditioners:

+86 (21) 6917-2162

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.



