

TM02D

316 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:**
0.3 GPM = 1.1 lpm
18 GPH = 68 lph
- **Pressure Rating at 100°F (38°C), with 3:1 Safety Factor:**
TM02D : 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:**
1/4" ports in meter case, FNPT standard, FBSP optional.
- **Materials:**
TM02D Case : 316 Stainless Steel
Seal : Teflon™ standard.
Posts : 316SS Hard Chrome coated
Gears Std. : Stainless Steel
- **Pulsers:** Hall Effect or Reed Switch (for battery powered registers)
- **Nominal Pulse Resolution:**

	On 1 cSt viscosity	On 100 cSt viscosity
Hall effect:	±7700 PPG (2034 ppl)	±7300 PPG (1930 ppl)
Reed Switch:	±3850 PPG (1017 ppl)	±3650 PPG (965 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: ±2%
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
 - 6116** Differential totalizer, pulse & 4-20 mA signal
 - 6127** Temperature compensated version of 6116
- **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.

Tuthill Transfer Systems Phone: 800-634-2695
8825 Aviation Drive, Fax: 800-866-4861
Fort Wayne, IN 46809 USA E-mail: fillrite@tuthill.com



ISO 9001:2000 Certified

International offices:
Europe, Middle East & Africa - Belgium Office
Europe, Middle East & Africa - UK Office
Mexico (North)
Mexico (South)/Caribbean/Centr. America
South America
Australia/Pacific Rim
China

Phone
+32 (10) 22 83 34
+44 (115) 932-5226
+52 (81) 8303-0025
+52 (55) 5370-2626
+54 (11) 4116-2830
+61 (3) 9726-2900
+86 (21) 6917-1999

Fax
+32 (10) 22 83 38
+44 (115) 932-2526
+52 (81) 8303-6334
+52 (55) 5370-0602
+54 (11) 4116-2835
+61 (3) 9725-2663
+86 (21) 6917-2162

