

3" **TS30C**,

Stainless Steel, Electronic

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

Specifications

Nominal Capacity with standard LV rotors

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	To 1500 SSU visc. To 300 cP viscosity To 300 cP viscosity	I NIEP 5.1 LUTT-GOWT		
•	Pressure Rating	: 275 PSI at 100°F = 19 BAR at 40°C		
•	Temperature Rating Design W Assy. ATEX listing Design F Assy	See note under Signal Conditioners : -40°F to +257°F = -40°C to +125°C : -4°F to +140°F = -20°C to +60°C : Same, subject to register temperature limits!		
•	Viscosity With LV rotors With HV rotors reduce	 100% capacity to 1,500 SSU (300 cP). 100% capacity to 5,000 SSU (1000 cP), ed capacity to 1,500,000 SSU (350,000 cP). 		
•	3" Connections 150#	RF ANSI flanges, integral to flow meter		
•	Matorials 100%	Non-Forrous		

- Materials 100% Non-Ferrous .CF8M (cast equivalent to 316SS). PPS with carbon bearings, Teflon[™] bearings opt. Case Gears HC316SS Teflon[™] standard. Posts :
 - Seals :
 - CF8M (cast equivalent to 316SS). Flanges :
- Pulser Hall Effect Quadrature, 5V reg or 6-12V non-reg; pls consult for 24V DC.
- K Factor Nominal 275 PPG (72.6 ppl) on 1 cP viscosity, EL0300-3-13F = 100 PPG (26.5 ppl) Opt. with SCL : EL0300-3-18F = 10 PPL (37.85 PPG)



TS30CW04CBTU for remote electronic register

Depending upon register or controller model, the pulser compartment in flow sensor front cover holds the sensor (pulser), and either:

- **TBB** = Terminal Block Board A.
- Β. SCL = Scaler/Calibrator/Linearizer

Meter Performance

Linearity	Over 5:1 turn-down from max. capacity: ±0.175% Over 10:1 turn-down from max. capacity: ±0.25% Over 30:1 turn-down from max. capacity: ±0.5%		
Repeatability	0.05% or better under constant conditions		
Approvals	Custody Transfer approvals are liquid specific.		
	W&M approval in the US, Canada* & EU*. EU MID W & M approved if fitted with sensor and TBB * Canada & EU: W&M approval of pulser is pending.		
Flow Meter	CE mark.		
• Pulser & SCL Intrinsically Safe, UL & cUL listed,			

SCL also EEx ia ATEX when powered through approved barrier.

Pulser encl. $\langle \overline{\xi_x} \rangle$ II 2G Ex d IIA T4, -20°C <Ta<+60°C, ATEX, IEC Ex & IP65

Registration, Signals & Accessories

- **Electronic registers:**
 - Tuthill electronic flow meters will support most common electronic registers & controllers. Available through Tuthill:
 - ELNC W&M register for stationary service ٠
 - **EMR**³ W&M register for stationary or truck service •
- PC58 Totalizer/Rate meter (non-W&M) •
- Signal Conditioners:
 - EL0300 SCL Scaler, Calibrator and/or Linearizer.
 - EL6630 PIA-300 amplifier for remote register (to 2,500' = 750 m)
 - with optional 4-20 mA signal or multi-point calibration. • PC58
 - NOTE: If EL0300 is used in place of EL0304, max liquid temperature = 185°F (85°C). For higher liquid temperatures, these components must be mounted remote from the flow meter in a separate enclosure.

Accessories

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+54 (11) 4116-2835

+61 (3) 9725-2663

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Inlet strainer for flow meter protection Air eliminator mounted on strainer

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