

TS OVAL GEAR METERS

Our TS Series meters are the standard in the Rotary Positive Displacement meter category. The accuracy and repeatability make this ideal for any environment. Mounted to a truck for bulk delivery, High Speed batching and unloading, Chemical and fertilizer transfer or delivery; the TS meters are compact, lightweight and easy to maintain. The unique oval gear design allows for compact mounting with minimal piping. The modular design allows flexibility in assembly for either mechanical registration or glandless pulse output to a variety of electronic counters, controllers or signal conditioners.

- 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

Model	Capacity on 1cSt at 10:1 turndown		Port Connections	Linearity over 5:1 turn-down from max capacity	Linearity over 10:1 turn-down from max capacity	Linearity over 30:1 turn-down from max capacity
TS10	40 gpm	150 lpm	1" FNPT or BSPP	±0.175%	±0.25%	±0.5%
	9 m³/h					
TS15	60 gpm	230 lpm	1.5" 150# RF bolted, FNPT or BSPP	±0.175%	±0.25%	±0.5%
	14 m³/h					
TS20	150 gpm	570 lpm	2" 150# RF bolted, FNPT or BSPP	±0.175%	±0.25%	±0.5%
	34 m³/h					
TS30	200 gpm	760 lpm	3" 150# RF	±0.175%	±0.25%	±0.5%
	45 m³/h					

- **Pressure Rating** at 100°F (38°C), **Electronic:** 400 psi/28 bar except TS30 — 275 psi/19 bar **Mechanical:** 150 psi/10 bar
- **Temperature Rating:** Design -15°F/+257°F = -26°C to +125°C
- **Repeatability:** 0.05%
- **Pulser:** TBB, SCL - 5, 12, or 24V
SCL Change: ±3%

Materials

Case	Gears	Posts	Seals
316 stainless steel	PPS (polyphenylene sulfide resin) with carbon bearings (Std), PTFE optional	316SS hard chrome coated	PTFE standard
Anodized Aluminum	PPS (polyphenylene sulfide resin) with carbon bearings (Std), PTFE optional	316SS hard chrome coated	Fluorocarbon (Std), PTFE

Nominal Pulse Resolution (± 3% nominal)

Standard Models	1 cP Viscosity Stainless Steel	1 cP Viscosity Aluminum
TS10	2,178 ppg (574.8 ppl)	1,728 ppg (456.5 ppl)
TS15	1,152 ppg (304.3 ppl)	1,013 ppg (267.6 ppl)
TS20	395 ppg (104.3 ppl)	395 ppg (104.3 ppl)
TS30	275 ppg (72.6 ppl)	275 ppg (72.6 ppl)

