



Heliflu[®]-TLM

HELICAL TURBINE METERS



LOWER YOUR TOTAL COST OF OWNERSHIP

WITH *HELICAL*  *TURBINE TECHNOLOGY*

The Heliflu[™] TLM flowmeter is designed for high accuracy measurement of low to medium viscosity liquids and refined products. Meter installations and custody transfer operations are improved by the unique weight and space saving design which includes integrated flow conditioning.

The Heliflu[™] TLM is fitted with a removable measuring cartridge and includes an integrated flow conditioner that allows installation without any upstream and downstream pipe runs.

KEY BENEFITS

- Proven robust technology
- Calibrated on customer specified viscosities
- Integrated flow conditioning : no straight length required
- Easy to install / Horizontal or vertical installation
- Low total cost of ownership
- Removable cartridge for easy maintenance
- Low downtime
- Low pressure drop and energy consumption
- Complies with global certifications and standards
- Manufactured with 90+ years of metering experience

A COMPACT METERING SOLUTION

PRODUCT APPLICATIONS

- Storage
- Loading racks
- Airport refuelers
- Light products transfer
- Wagon & road tankers
- LACT



The Compact Helical Metering Solution for Liquid Hydrocarbon Measurement



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LOWER TOTAL COST OF OWNERSHIP WITH HELICAL TURBINE TECHNOLOGY

Size		Model	Nominal Flow Range (min/max)						Typical K-factor			Meter Length		Appr. Weight	
in	mm		m ³ /h	l/min	GPM		Pulse/m ³	Pulse/l	Pulse/gal	in	mm	kg	lbs		
3	80	TLM 3-30	3	30	50	500	13	132	44,500	44.5	168.4	18.5	470	25	55
3	80	TLM 3-50	5	50	83	833	22	220	27,000	27	102.2	18.5	470	25	55
3	80	TLM 3-70	7	70	116	1166	30	308	10,500	10.5	39.7	18.5	470	27	60
3	80	TLM 3-110	11	110	183	1833	48	484	10,500	10.5	39.7	18.5	470	27	60
3	80	TLM 3-150	15	150	250	2500	66	660	10,500	10.5	39.7	18.5	470	27	60
4	80	TLM 4-70	7	70	116	1166	30	308	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-110	11	110	183	1833	48	484	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-150	15	150	250	2500	66	660	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-200	20	200	333	3333	88	880	3,100	3.1	11.7	20	508	32	70
4	100	TLM 4-300	30	300	500	5000	132	1321	3,100	3.1	11.7	20	508	32	70

MATERIALS OF CONSTRUCTION

BODY AND FLANGES	Stainless Steel Options: Low Temperature Carbon Steel or Duplex (Other upon request)
INTERNALS Cartridge Rotor Bearings	316L Stainless Steel, Titanium (optional) Titanium or Aluminium Tungsten Carbide or Graphite
ELECTRICAL ENCLOSURE OPTIONS	316 Stainless Steel or Aluminium Compliance to NORSOK, NACE

METER TEMPERATURE RANGE

	ATEX/IECEX	UL/cUL
AMBIENT TEMPERATURE	-50°C to +80°C (-58°F to +176°F)	-50°C to +80°C (-58°F to +176°F)
PROCESS TEMPERATURE	-50°C to +180°C * (-58°F to +356°F)	-50°C to +150°C (-58°F to +302°F)
INGRESS PROTECTION	IP66	NEMA 4X
STORAGE TEMPERATURE	-50°C to +60°C (-58°F to +140°F)	

METER SPECIFICATION

METER SIZE & FLANGE RATING	3" & 4" ANSI 150 & ANSI 300 (ASME B16.5)
ELECTRICAL ENCLOSURE - SENSOR TYPE - PREAMPLIFIER	1 or 2 Inductive pick-up coil 2 wires 2 wires NAMUR 3 wires Open Collector
OPTIONAL	Local totalizer available (upon request)

PERFORMANCE

LINEARITY	± 0.15% (single product only) ± 0.25% (for multiple products)
REPEATABILITY	≤ 0.04%
COMPLETE FLOW RANGE	3 to 300 m ³ /h 13 to 1,321 gallons per minute
VISCOSITY RANGE	< 15 cSt

METER APPROVALS

ELECTRICAL	ATEX and IECEx (II2G - IICT6) UL/cUL (Class 1 Div 1 Group C, D)
PRESSURE	PED Directive 2014/68/EU Compliant
ELECTROMAGNETIC ENVIRONMENT	EMC Directive 2014/30/EU compliant
METROLOGY	OIML R117-1 MID (Class 0.5) Other national approvals upon request