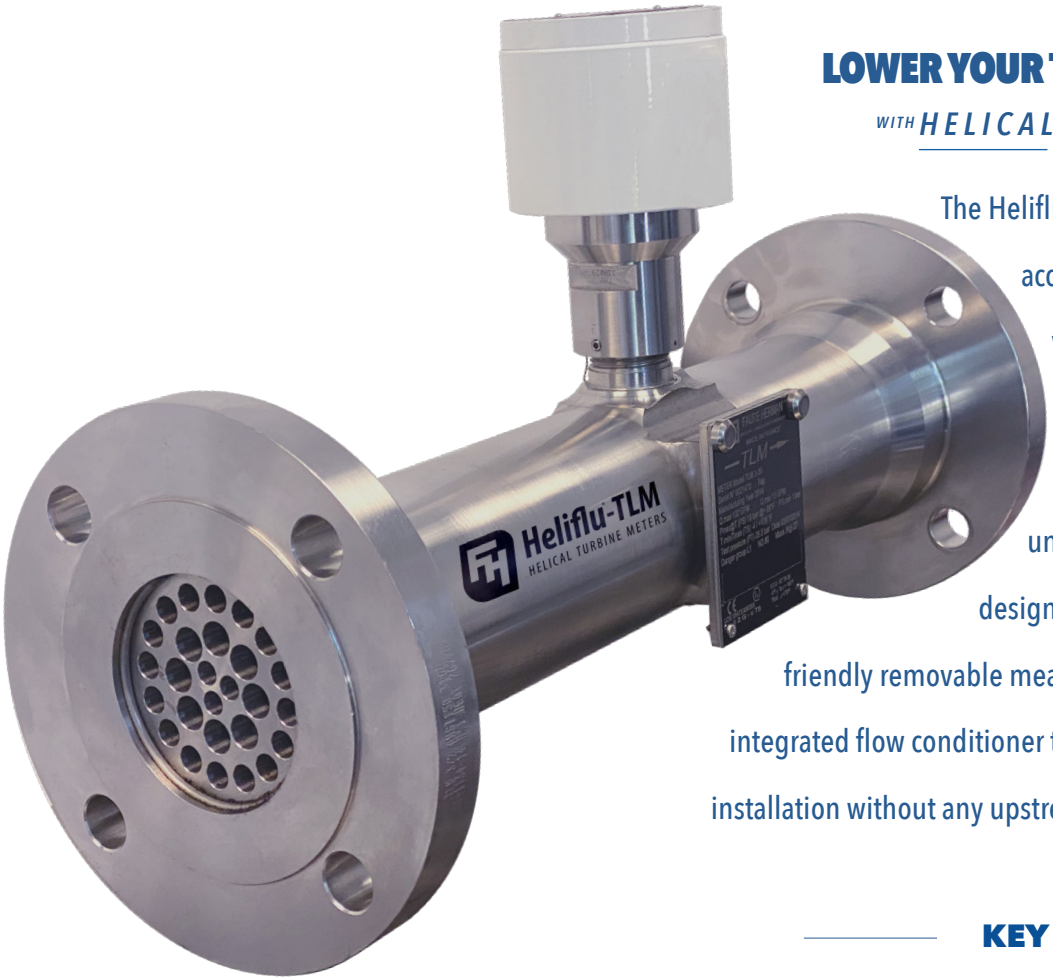
Heliflu®-TLM

HELICAL TURBINE METERS



LOWER YOUR TOTAL COST OF OWNERSHIP

WITH HELICAL TURBINE TECHNOLOGY

The Heliflu™ TLM is designed expressly for high accuracy measurement of low to medium viscosity liquids and refined products. Your meter installations and custody transfer operations are improved by its unique weight and compact, space-saving design. The TLM is fitted with a maintenance-friendly removable measuring cartridge and also includes an integrated flow conditioner that allows you a more economical installation without any upstream and downstream pipe runs.

A COMPACT METERING SOLUTION

PRODUCT APPLICATIONS

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

KEY BENEFITS

- Proven robust technology
- Calibrated on customer specified viscosities
- Integrated flow conditioning; no straight length required
- Easy, flexible installation: either Horizontal or vertical
- Lowers Total Cost of Ownership
- Removable cartridge for easy maintenance
- Lowers downtime whenever maintenance is required
- Low pressure drop means lower energy consumption
- Complies with global certifications and standards
- Faure Herman's 90+ years of metering experience

Heliflu-TLM
HELICAL TURBINE METERS

The Compact Helical Metering Solution
for Liquid Hydrocarbon Measurement

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	100	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 – IIC T6) | 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

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