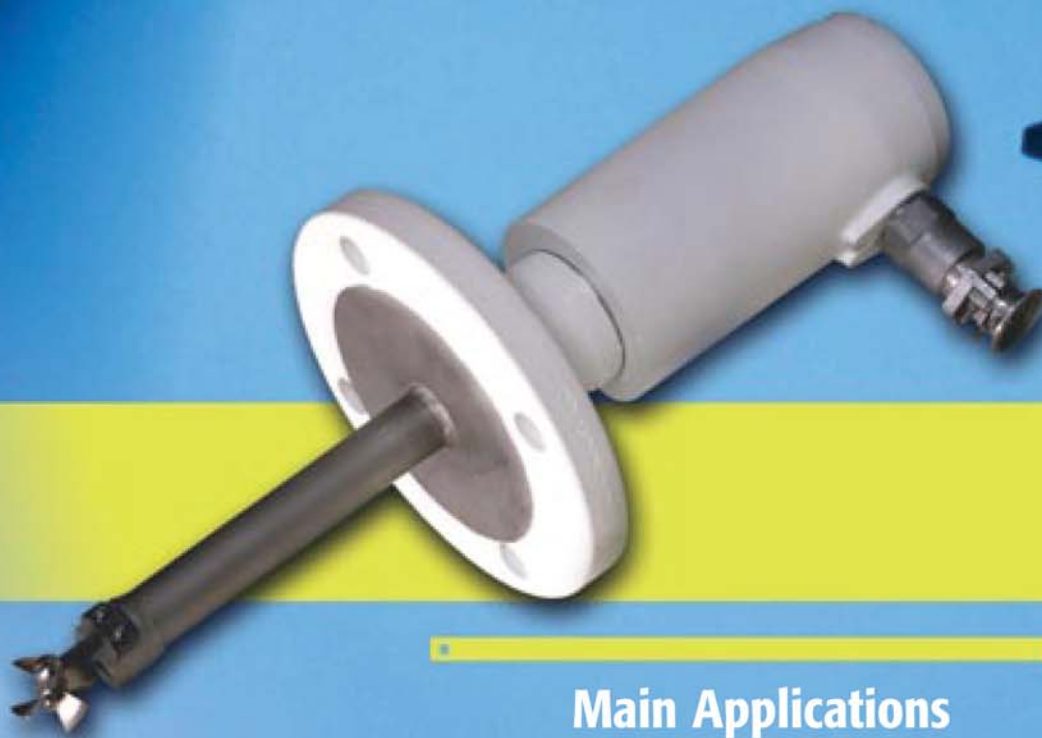




The Insertion Turbine Flowmeter for Liquid Applications

*Designed to measure the flow rate of liquids
in medium and large diameter pipelines*



Main Applications

- Hydrocarbon or Liquefied Gas Metering
- Metering on Water Systems
- Flow Measurement on Large Pipelines
- Cryogenic Liquid Metering



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Measurement Principle

A small impeller is inserted through a T-branch, which is welded at right angles to the main pipeline.

A magnet element, fitted to the rotor, induces pulses in a solenoid at a frequency proportional to the flow rate. The measuring signal is processed either locally or remotely, to give flow rate and / or volume information.

Installation

Recommended straight lengths:

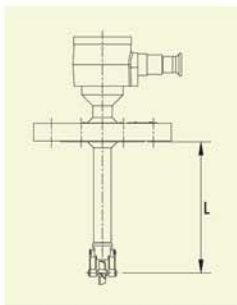
- Upstream: 10 to 15 times the nominal diameter of the main pipeline

- Downstream: 5 times the nominal diameter of the main pipeline

Installation on a T-branch at right angles to the main pipeline.

Pipelines diameter 80 to 400 mm:
→ TIL 200

Pipelines diameter > 400 mm
(2000 mm)
→ TIL 420



A Flowmeter to be Installed on Existing Pipes

Key Technological Features

- Simple construction: single rotating element
- Easy installation
- Measuring element removable on site with accuracy stability
- Low pressure drop

Key Customer Advantages

- Easy to be integrated in current systems
- Low cost of ownership
- Low and easy maintenance
- Process integrity

		Viscosity			
		0 – 2 cSt	2 – 10 cSt	10 – 25 cSt	> 25 cSt
Velocity	0.4 < v ≤ 1 m/s	± 3 %	± 3 %	± 5 %	On request
	1 < v ≤ 1.5 m/s	± 3 %	± 3 %	± 3 %	On request
	1.5 < v ≤ 2.5 m/s	± 1.5 %	± 3 %	± 3 %	On request
	2.5 < v ≤ 7 m/s	± 1.5 %	± 1.5 %	± 3 %	On request

Specifications

Environment	
Process temperature range with electronics	- 20 to + 180 °C (- 4 to + 356 °F)
Storage temperature	- 20 to + 80 °C (- 4 to + 176 °F)
Climatic protection	- 40 to + 60 °C (- 40 to + 140 °F)
EMC	IP 66 EN 61000 & EN 5502
Safety	
EEx ia version (with coil &/or preamp)	Compatible with installation in Zones 0, 1 & 2 Group II 1G
EEx d ia version (with coil &/or preamp)	Compatible with installation in Zones 1 & 2 Group II 2G
Mechanical	
Meter length (L)	200 to 420 mm (7.9 to 16.5 ")
Max. pressure	43.5 bar
Meter body material	Carbon steel, stainless steel 316 L
Flange material	Carbon steel, stainless steel 316 L
Rotor material	T40 Titanium
Performances	
Accuracy	Refer to the table
Repeatability	± 0.2 %
Electrical options	
Pick-up coil	1 or 2
Pick-up coil + preamp.	Available
Pick-up coil + remote preamp.	Available
Local converter	Available



FAURE HERMAN

FAURE HERMAN - Route de Bonnétable - B.P. 20154 - 72406 La Ferté-Bernard - France

Tel : +33 (0)2 43 60 28 60 - Fax : +33 (0)2 43 60 28 70

Commercial / Direct Sales : Tel : +33 (0)2 43 60 28 95 - Fax : +33 (0)2 43 60 28 89

E-mail : fhprojects@idexcorp.com / www.faureherman.com

FAURE HERMAN METER Inc. - Houston TX, 77056 (U.S.A.)

Phone : +1713 623 0808 - Fax : +1713 623 2332 - E-mail : FHH-Sales@idexcorp.com