

ETL/RN3/CSS Subsea Turbine Flow Meter

This range of flowmeters will provide you with a highly accurate way of measuring liquids over the range of 0.7 to 2,250 litres/min.

Application

The subsea turbine range of flowmeters are built with 316 stainless steel bodies as standard, but can be made from various alloys to suit application and pressures. Depths of up to 5,000m and pressures of 20,000psi are possible.

As these are machined from one piece, most connections are possible. ie: autoclave, NPT and BSP.

Each unit comes with a interchangeable 5,000m depth rated pick up, with a choice of subsea connections, typically Seacon, Subcon, Burton, and outputs of amplified pulse, 4-20ma, RS232.

Instrumentation

We offer special pick ups which can link to our subsea display range of single / dual displays with or without stand alone battery power.

Calibration

All flowmeters come with an individual calibration. Pressure test certificates and material test certificates are available on request.



Features

- Highly accurate measurement of flow
Well proven
Improve product quality
Reduce costs and waste
- Robust stainless steel construction
Corrosion resistant
Very low maintenance and down time
Withstands high temperature and pressure
- High quality manufacture
ISO 9001 certified company
Individual calibration certificates
- Low pressure drop
- Bi-directional flow capability

Installation

The flowmeter is installed directly into the pipeline. To reduce turbulence and get the best results from your flowmeter we recommend that you install it in a straight section of pipe with at least 10 pipe diameters upstream and 5 pipe diameters downstream.

ETL/RN3/CSS Subsea Turbine Flow Meter

Specification

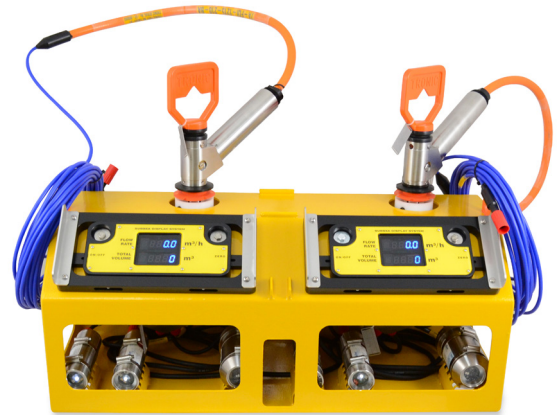
Linearity:	Better than +/- 0.5% of reading
Repeatability:	+/-0.1% of reading
Pressure drop:	0.5 bar at maximum flow
Maximum over range:	Up to 120% of the maximum flow rate for short durations
Maximum working pressure:	20,000 psi (Depending on connection).
Temperature range:	Standard pickoff -30°C to 110°C
Body connections:	BSP (F) BSP (M) AUTOCLAVE, NPT

Materials Of Construction

Body:	316 Stainless steel
Sleeve bearings:	Standard - carbon graphite filled PTFE (max temp. 180°C) Optional tungsten carbide (max temp. 300°C)
Thrust balls:	Tungsten carbide
Rotor:	431 s/s or ferralium
Rotor shaft:	Tungsten carbide
Hangers:	316 Stainless steel
Circlips:	316 Stainless steel

Model No	Flow Range Ltr/min	K factor # pulses / litre
ETLRN3/10/CSS	1 - 10	5000
ETLRN3/15/CSS	2 - 20	3800
ETLRN3/20/5/CSS	5 - 50	1080
ETLRN3/20/8/CSS	8 - 80	1080
ETLRN3/25/15/CSS	15 - 150	620
ETLRN3/25/CSS	25 - 250	362
ETLRN3/32/CSS	45 - 450	111
ETLRN3/40/CSS	67 - 670	82
ETLRN3/50/CSS	110 - 1100	59
ETLRN3/65/CSS	225 - 2250	19

Custom Builds



Subsea flowmeters used to produce custom builds for various applications including subsea de-watering systems.