

# Litre Meter Ltd Company Overview

## Consult the specialists

Precision measurement and total control of fluid flow

### Made to Measure for all Applications

When flow measurement is critical, consult the specialists. Litre Meter has been leading the field since 1975, with a well-established reputation for the design, manufacture and supply of flowmeters of all kinds. Litre Meter pioneered the development of the Pelton wheel flowmeter: an accurate, effective and versatile design suitable for many different fluids including acids, chemicals, fuels, water and hot fats, at both high and low flow rates. In addition we have developed the VFF meter to compliment the range. specially designed for low flow and high pressure applications for the offshore industry. Our portfolio now includes flowmeters of all kinds, including rotary meters, gas flowmeters, helical screw flowmeters, electro-magnetic and ultrasonic flowmeters to handle a wide range of viscosities, flow rates and pressures, aggressive liquids and hazardous or adverse environments. We have particular expertise in measuring low flow rates and flows at high pressure.

#### Offshore Oil & Gas

- Chemical injection with highly viscous fluids
- Hydraulic line monitoring for well control valves and leak detection
- Wash water measurement
- Chemical injection and general metering of low viscosity fluids
- Fiscal and custody transfer measurement of natural gas and liquid hydrocarbons

#### Automotive/aviation test rigs

- Fuel flow measurement
- Diesel injection test flows at very low flows
- Aviation fuel injection flows
- Aviation hydraulic fluid measurement



#### Plastics & Rubber

- Ratio measurement of the constant fluid flow in expanded foam manufacture
- Two part chemical addition control in automatic glue dispensing
- Measurement and batching of high viscosity polyols and aggressive amines

#### Mass Gas applications

- Manufacturing quality control leak testing
- Emissions measurement
- Biotech fermentor gas control
- Pharmaceutical inhaler test equipment
- Cooling and purging air in semiconductor manufacturing

#### General Process

- Measurement of any process fluid or gas
- Low to high viscosity
- Pressures to 4000 bar
- Temperatures to 450°C
- Hazardous area certification available

# Precision Measurement For Every Process Application

## Rotary Piston VFF (Viscous Fluid Flowmeter)



- Suitable for low & high viscosity liquids at pressure rating up to 4,000 bar (60,000 psi)
- Single moving part provides a robust and low maintenance technology
- Optionally submersible to 3,500m
- Flow rates from 0.0001 l/min to 270 l/min across the VFF range

## Vortex, Ultrasonic, and Thermal Mass Flowmeters



- Ultrasonic flowmeters - Clamp on, non intrusive technology provides solution for a wide range of applications.
- Vortex flowmeter - In-line and insertion meters available. Available for either liquid or gas applications.
- Thermal Mass Gas flowmeters - For measurement of mass directly, not requiring measurement and computation of pressure and temperature.

## Pelton Wheel Flowmeter



- Suitable for low viscosity liquids, at pressure from 5 to 2,068 bar (30,000psi)
- Provides high turn-down as standard
- Accommodates low flow rates, from 0.004 l/min to 20,000l/min
- Intrinsically safe option available

## Electromagnetic and Turbine Flowmeters



- Turbine flowmeters - Line sizes from 1/4" to 12". Available in a wide range of materials and end connections
- Volumetric Gas flowmeters - High turn-down as standard from 1 ml/hr to 160,000 l/hr. Durable construction for extremely corrosive gas measurements.
- Electro-magnetic flowmeter. No moving parts. Flow rates from 0.004 l/min to 4 million l/min across the range

## Helical Screw Positive Displacement Flowmeter



- Designed for low and high viscosity liquids
- Highly accurate to within  $\pm 0.1\%$  of reading
- Flow rates from 0.015 l/min to 7,500 l/min

## Instrumentation



- A comprehensive range of instruments to support all flowmeters
- Provides rate, total and batching measurements
- Analogue, Pulse, Flow alarm, RS232, RS485, Modbus, Hart and Fieldbus outputs available
- Suitable for all industrial areas - available in Exi and Exd options with UL, ATEX and INMETRO approvals