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PRESSEMITTEILUNG

High Pressure Flow Meters for the Offshore Oil and Gas Industry

Flow measurement

plays a fundamental role in upstream, midstream, and downstream segments of the Oil and Gas industry. Applications such as high-pressure additive injection, require highly accurate and chemically resistant flow metering sensors.



For the successful transportation

and refining of crude oils, a whole raft of additives are required. These vary from simple surfactants through to complex blended scale and corrosion inhibitors. The

chemical additives are injected in small quantities at high pressure and are critical to the whole refining process. Consequently, careful monitoring of their addition to any process is essential.

Petrochemical additive injection

fluids vary in both viscosity and density, and any flowmeter installed into a plant should be able to cope with a wide range of physical and chemical properties. Unlike other types of flowmeter, measurement accuracy of [Oval Gear flow meters](#) improves as the liquid viscosity increases, from a nominal 1% of reading to around 0.1% of reading at higher viscosities.

[Titan's Oval Gear range of flowmeters](#)

include ATEX compliant IP67/NEMA 4 protection models, designs that can be pressure tested in-house up to 1200 bar, and devices that offer intrinsically safe options to be used in potentially explosive atmospheres. These oval gear meters offer excellent chemical resistance whilst maintaining high performance and 0.1% repeatability. Titan's proprietary oval gear design ensures these flow meters give reliable, high performance in high pressure applications.

Titan's standard Oval Gear models

used in additive injection are manufactured with options in materials compatible with the presence of strongly acidic or basic chemicals, such as 316 stainless steel, aluminium, and non-metallic PEEK, with pressure ratings from 10 bar to 950 bar (for custom-designed models). Benefiting from a compact, rugged design, Titan's Oval Gear flowmeters are proven to operate reliably even at high pressures and at temperatures up to 150°C, providing long-term performance with minimal maintenance.

Adapting designs

to meet specific high-pressure requirements and aid chemical compatibility, the use of non-magnetic materials and exotic metals, such as Hastelloy and Titanium, are examples of our growing bespoke flow meter capability. Titan has partnered with OEM customers to provide optimised flow metering solutions for oil, petrochemical and green energy applications. These have included bespoke oval gear flow meters for marine fuel flow measurement, monitoring the volume of grease being supplied into a wind turbine main bearing mechanism, high pressure intrinsically safe units for

offshore oil drilling additive injection, and for [biodiesel plants converting bio waste into sustainable biofuels](#).

For further information

on Titan's full range of Oval Gear flowmeters visit <https://flowmeters.co.uk/> or to discuss your [specific OEM application](#), contact Titan Enterprises on +44 (0)1935 812790 or sales@flowmeters.co.uk

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Drawing upon over 40-years of flowmeter innovation - Titan Enterprises Ltd is a leading manufacturer of high-performance flow measurement solutions, including the Atrato ultrasonic flowmeter, Oval Gear flowmeters, low flow Turbine flow meters and a flow instrument range. Titan's company philosophy of "pushing the envelope by trying to do things a little different and better" has resulted in sales of over 2 million flowmeters and components into 50 countries worldwide and a repeat purchase percentage of 95%. All flow meters produced by Titan Enterprises are designed and manufactured to ISO9001 and calibrated to an uncertainty of $\pm 0.25\%$.

NOVEMBER 2022

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