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## **PRESS ANNOUNCEMENT**

### **Flow Sensing Challenges in Food & Beverage Production**

[Titan Enterprises](#) offers a range of high-performance flowmeters in food grade materials where both food hygiene and precision flow measurement are required.

#### **Flow measurement**

is a critical tool for food and beverage manufacturers, the industry having a diverse range of processes that require the precise control of liquid flow rates. Production processes including filling of vessels or bottles, measuring liquid ingredients, and controlling cleaning processes, require varying degrees of complexity and accuracy to ensure consistent product yield and minimise wastage. Although there are a wide variety of general flowmeters on the market, only a few high-performance measuring devices will ensure the high levels of hygiene and precision are maintained for applications in the food and drinks sector.

#### **“The physical properties**

of the liquids themselves lend additional complexities to the choice of flow measuring equipment,” says Neil Hannay, Senior Development Engineer at Titan Enterprises.

“Consideration of whether the liquid is viscous, volatile, corrosive, flammable, or contaminated with particles, for example, or needs to be maintained at a high temperature, are key factors in [deciding a suitable flow meter.](#)”

### **Monitoring Flow of High and Low Viscosity Fluids**

Flow monitoring of high viscosity liquids, such as cooking oils, sauces and syrups (e.g. syrup injections in beverage lines) require devices such as [Titan's oval gear flowmeters](#), which provide highly accurate flow measurement. Unlike other flowmeters, measurement accuracy of oval gear flowmeters improves as the liquid viscosity increases, from a nominal 1% to around 0.1% of flow rate at higher viscosities.

### **Whereas for low viscosity liquids**

such as water, beer, wine and spirits, [Titan's NSF-approved 800-series and beverage flowmeters](#) provide a low-cost drink dispensing solution. Designed to give high performance over 6 flow ranges from 0.05 to 15 l/min, these devices have totally non-metallic NSF-approved wetted components making them ideally suited for applications where both food hygiene and precision flow measurement are required.

### **Flow Monitoring at High Temperatures**

In processes where ingredients need to be maintained at high temperatures – chocolate for example – a flowmeter designed for applications requiring precise flow measurement at elevated temperatures would be needed. Capable of operating up to 110°C, [Titan's inline non-invasive Atrato® ultrasonic flowmeter](#) is largely immune from viscosity and offers excellent turndown and repeatability.

### **Titan Enterprises**

offers a range of oval gear flowmeters in food grade materials for viscous products such as sauces, oils and syrups, as well as NSF-approved mini-turbine flowmeters for drink dispensing. As an experienced OEM supplier, Titan develop [customised flow meters for specific customer applications](#) within the food and beverage industry.

## To discuss an optimised flow measurement device

for your OEM application please contact Titan Enterprises on +44 (0)1935 812790 or email [sales@flowmeters.co.uk](mailto:sales@flowmeters.co.uk). Or visit our [website](#) for further information.

### Titan Enterprises Ltd

Drawing upon over 40-years of flowmeter innovation - 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  $\pm 0.25\%$ .

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