These compact rugged oval gear flowmeters are designed to give high performance with a low cost of ownership. These meters are happy measuring simple water like products as well as lubricating fluids. The standard inlet and outlet are BSP or NPT female threads for autoclave, flanges are also available. For OEM use alternatives, including manifold mountings, are available. The standard models are 316 St St, and other materials are available if required. For hazardous areas either the Namur sensor or the reed switch (simple apparatus) may be used.

**FEATURES**
- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall, reed switch or Namur sensor
- Good accuracy
- 0.1% repeatability
- IP67/NEMA 4 protection
- Up to 700Bar on selected models
- Non-metallic option

**IDEAL FOR**
- Engine test
- Oil flow
- High viscosity fluids
- OEM equipment
- Hazardous areas
At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets.

Rotation is detected through the chamber wall by a Hall Effect detector, Namur sensor or a reed switch giving a number pulses per litre passed. The output is an NPN pulse or a voltage free contact closure either of which is readily interfaced with most electronic display or recording devices.

This combination of materials and technology ensures a long life product with reliable, accurate operation throughout. PEEK is a superb material for gear and bearing manufacture, it has excellent pressure and velocity characteristics coupled with very good thermal properties and chemical resistance. Stainless gears with roller bearings are an alternative.

For fluids with viscosities above 1000 cSt specially cut gears are required and the flow range is reduced for a given meter size.

Standard Materials of Construction

Body and cap - 316 St St
‘O’ Ring seal - Viton®
Gears - PEEK
Magnets - Ceramic