

Trigear PD Flowmeter

For dosing, batching, filling, 2 component mixing

Trigear Positive Displacement Flowmeters are:

- high accuracy & precision, reliable, robust, easy to install & service
- low pressure drop, less slippage, smooth & quiet
- for waterbased media (stainless steel): chemicals – adhesives – food based
- for oil based media (Aluminium): Fuels, oils, alcohols, solvents, paints, emulsions
- for critical low flow: Visuflow – see through

Stainless Steel - water based

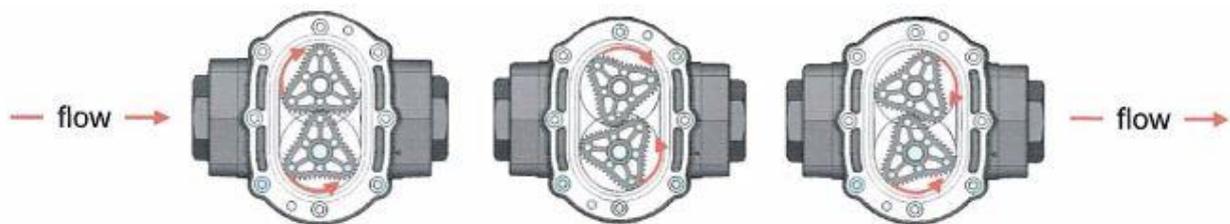
Aluminium - oil based media

Visuflow - see thru



Working Principle

Liquid Passes into the single case measuring chamber and displaces two tri-gears. Each rotation of a tri-gear is proportional to a discrete unit of volume, in turn, the speed at which the gears rotate is directly proportional to flowrate. Reed and Hall Effect sensors mounted outside the pressure boundary detect the movement of the tri-gears, thus allowing local or remote instruments to display flow total, rate of flow or facilitate batching applications.



Features

- Size range: 8 - 100 mm (3/8" - 4")
- Flow range: 0.25 – 1500 l/min
- Wide rangeability and linearity
- High accuracy up to $\pm 0.15\%$
- TG008: $\pm 0.5\%$ of reading, TG015-050: $\pm 0.15\%$ (6:1 turndown), $\pm 0.25\%$ (15:1 td), ± 0.5 (25:1 td)
- Repeatability $\pm 0.1\%$ of reading
- Temperature -20 to 120°C (opt. higher)
- Viscosity up to 100.000 cps
- Good low flow performance for low mass



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Models/Options

- Stainless steel for waterbased media
- chemicals – adhesives – food based
- Aluminium for oil based media:
- Fuels, oils, alcohols, solvents, paints, emulsions
- Visuflow: for critical low flow – see through
- Gear material: PPS Ryton (chemical applications), PEEK (F&B - FDA approved)
- Connections: screwed, flanged, bolted on process connections
- Bidirectional flow
- Intrinsically safe, explosion proof options
- Display with totalizer, batch control, flow rate
- Reed switch or hall sensor pulse output
- 4-20mA, scaled & quadrature pulse, alarms, HART, Modbus



Applications

Dosing, Batching, Filling, 2 Component Mixing for:

- Water based media: chemicals – adhesives – food based
- Oil based media: Fuels, fuel oils, alcohols, solvents, paints, emulsions

Industrial Applications/Sectors:

- Cryogenic
- High Viscosity
- High purity: F&B, Pharma
- Aggressive/corrosive Media: Chemical - Petro-Chemical
- Paints, Spray paints



[Trigear PD Flowmeter PDF](#)