

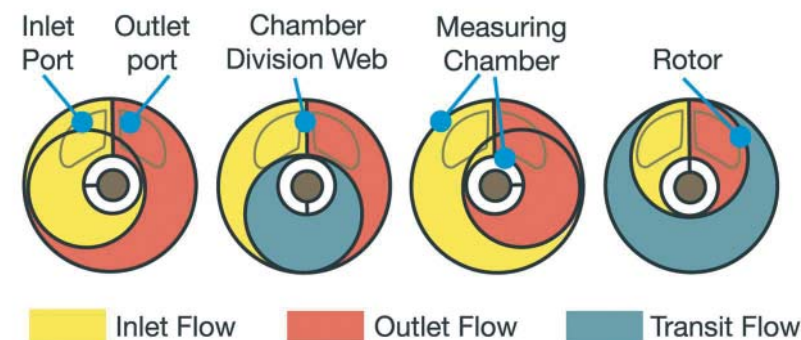
VFF Rotary Piston Positive displacement flowmeters

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The Viscous Fluid Flowmeter Series (VFF) has successfully metered viscous fluids such as oils, hydraulic fluids, additives, paints, polymers, chemicals etc. Meter bodies are produced in 316 stainless steel which offers good chemical and environmental resistance. For tougher applications titanium, super duplex and Inconel are offered.

Applications for flow-rates as low 0.00016 litre/min (0.23 litres/day) have been metered within the off-shore oil industry. The meters exhibit exceptional rangeability with a turndown of 3000:1 achieved for just moderately viscous engine oil. The rotor size determines the meter flow-range. The smallest standard stock size offers up to 0.7L/min and the largest up to 270 L/min. Higher flow-rate meters can be provided to special order.

An extensive range of meter construction offers pressure ratings from 0 to 50 bar suitable for most industrial applications and higher pressure rating designs are manufactured up to 4000 bar.



F-Pod Exd, Instrument

- Display of rate and total
- Analogue and scaled pulse outputs
- HART, Foundation Fieldbus, RS232, RS485, communication
- Flow alarms
- Enclosure rated to IP66 and others suitable for sub-sea applications
- Hazardous Area approved for Exd
- DC power supply
- Linearisation
- Pipe, wall, head and panel mounting options








F118 Exi Instrument

- Display of flow rate and total
- Analogue and scaled pulse outputs
- RS232, RS485 and Modbus
- Flow alarms
- Temperature and pressure compensation
- Enclosure rated up to IP67 and alternatives suitable for sub-sea applications
- Hazardous area approved for Exi
- AC, DC or battery power supply options
- Linearisation
- Printer outputs
- Pipe, wall, head and panel mounting options



VFF Rotary Piston Positive Displacement Flow Meters

	Description	Flow range & Accuracy	Fluids	Features		Description	Flow range & Accuracy	Fluids	Features												
	316L stainless steel bodied meter with 1/2" NPT female threaded connections, nitronic ss, brass or carbon rotor dependent on pressure and flow rate range. 414 bar standard, available for pressures up to 4000bar and temperature from -40 to +150°C.	0.010 to 40 l/hr. Minimum subject to fluid viscosity. +/- 1% of actual reading.	Any non abrasive, chemically compatible liquid.	Simple construction with only one moving part and reed switch pulse output. Available with any end connections to suit your application.		316L stainless steel bodied meter supplied with 3/4", 1" or 1.5" NPT female process connections, nitronic ss, brass or carbon rotor dependent on pressure and flow rate range. 110 bar standard, available for pressures up to 4000bar and temperature from -40 to +150°C.	<table border="1"> <thead> <tr> <th>Meter</th> <th>Min l/min</th> <th>Max l/min</th> </tr> </thead> <tbody> <tr> <td>HF20</td> <td>0.06</td> <td>20.00</td> </tr> <tr> <td>HF40</td> <td>0.11</td> <td>40.00</td> </tr> <tr> <td>HF66</td> <td>0.16</td> <td>75.00</td> </tr> </tbody> </table> <p>Minimum subject to fluid viscosity. +/- 1% of actual reading.</p>	Meter	Min l/min	Max l/min	HF20	0.06	20.00	HF40	0.11	40.00	HF66	0.16	75.00	Any non abrasive, chemical compatible liquid with viscosities up to 2,000cSt or greater.	Simple construction with only one moving part and reed switch pulse output. Available with end connections to suit your application.
Meter	Min l/min	Max l/min																			
HF20	0.06	20.00																			
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	316L stainless steel bodied meter with 1/2" NPT female threaded connections, nitronic ss, brass or carbon rotor dependent on pressure and flow rate range. 207 bar standard, available for pressures up to 4000bar and temperature from -40 to +150°C.	0.1 to 90 l/hr. Minimum subject to fluid viscosity. +/- 1% of actual reading.	Any non abrasive, chemical compatible liquid.	Simple construction with only one moving part and reed switch pulse output. Available with any end connections to suit your application.		316L stainless steel bodied meter supplied with 2" NPT female process connections. Rotor can be supplied in nitronic ss, brass or carbon dependent on application. 40 bar. High pressure versions available with connections to suit.	<table border="1"> <thead> <tr> <th>Meter</th> <th>Min l/min</th> <th>Max l/min</th> </tr> </thead> <tbody> <tr> <td>V125</td> <td>8.30</td> <td>125</td> </tr> <tr> <td>V270</td> <td>25.00</td> <td>270</td> </tr> </tbody> </table>	Meter	Min l/min	Max l/min	V125	8.30	125	V270	25.00	270	Any non abrasive, chemical compatible liquid with viscosities up to 2,000cSt or greater.	Simple construction with only one moving part and reed switch pulse output. Available with end connections to suit your application.			
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These products conform to PED and EMC and optionally to ATEX/UL