

VFF8

Model:	VFF8/(pressure)bar/(rotor material)
Body:	110bar (1500 psi) body provided in 316 stainless steel with ½" NPT female process connections in-line. Higher pressure versions available with connections to suit e.g. AE MP 3/8"OD tube. Alternate materials are available such as titanium, duplex, super duplex and 17-4PH steel.
Rotor:	The rotor is provided in either anti galling stainless steel (AG, Nitronic 60) or Carbon graphite, with a 316SS encapsulated magnet.
Seal:	There is a single FPM O-ring seal between the top cap and body. Other elastomers are available e.g. Kalrez®, FEP covered silicon and in higher pressure versions PTFE and Inconel.
Pick-up/Transmitter:	There is one reed switch installed in a SS housing which is O-sealed to the meter body providing a rating of IP68. The optional Ex ia or Ex d display is mounted on the housing. Typical reed switch life is 30 years at continuous maximum operating flow rate.
Pressure rating:	110, 414, 690, 1035, 1380 and 2500 bar. Lower pressure ratings are all served by the 110bar version. (1500, 6000, 10000, 15000, 20000 and 36000 psi)
Temperature rating:	-40°C to +150°C (subject to chemical compatibility, pressure rating and location of the display), higher temperature sensor available.
Pulse output:	The unit provides a reed switch output at approximately 46 pulses per litre (174 pp USG).
Viscosity range:	0.8 to 2000 cSt or greater. The normal meter maximum flow rate applies for viscosities from 1.2 to 30 cSt. For higher viscosities up to 2000 cSt a reduced maximum flow rate may apply.
Flow rate range:	- Normal flow rate range 0-480l/hr (0-8000 ml/min, 126 USG/hr, 3020 USGPD). Minimum flow rate repeatably measured relates to application viscosity and rotor type; for example less than 35 ml/min for 3 cSt. - 50% over-range capability available for some applications – Please consult Litre Meter.
Filtration:	A 100 micron filter is advisable for 100% long life serviceability. If filtration is not possible, consult Litre Meter.
Accuracy:	A calibration certificate is provided based on a representative viscosity fluid for the application. The calibration certificate confirms the flowmeter accuracy. Improved system accuracy can be provided typically to ±1% of actual reading where the linearisation signal processing facility of the display instrument is employed.