

DESCRIPTION

Bass Instruments FODF series Compact oval gear flow meters are ideal measuring oils, for hydraulic fluids, engine, Fuel, Diesel or lubrication oil, and are used for flow measurement and batching in engine test applications. Bass Instruments FODF series Compact Oval Gear Flow meter uses two fine-toothed meshed gears that are oval in shape and engage each other in a precision machined body. This fluid is transferred sequentially from the inlet to the outlet and one or two pulses are transmitted for each revolution of the gear. Embedded within the gear, a pair of chemically resistant magnets provide the external signals. Detection of the rotation uses either a reed switch or a Hall effect sensor on the outside of the fluid housing.



FEATURES

- Very compact size.
- Low flow capability with high resolution output.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Solid state Hall Effect Sensor/Reed Combination.
- Low pressure drop allows for economical pump selection or gravity flow applications.
- Meter design minimises the number of wearable and replaceable parts and extends product life.
- Has IP65 protection.
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).

TECHNICAL SPECIFICATIONS

Type Number	Connection Size	Range l/min	Body	Gears and Shaft	Medium Temp. °C	Pmax* (bar)
FODF.002.2.1.P	G 1/8"	0,5...150 ml/dk	Aluminum	AISI316	-30...80	100
FODF.003.2.1.P		3...300 ml/dk				
FODF.005.2.1.P		0,005...1,5 lt/dk				
FODF.009.1.1.P	G 1/4"	0,1...10 lt/dk		Aluminum		40
FODF.012.1.1.P	G 1/2"	0,3...30 lt/dk				
FODF.025.1.1.P	G 1"	1...110 lt/dk				
FODF.003.2.2.P	G 1/8"	0,5...150 ml/dk	AISI316	AISI316	100	
FODF.005.2.2.P		3...300 ml/dk				
FODF.005.2.2.P		0,005...1,5 lt/dk				
FODF.008.2.2.P	G 1/4"	0,1...10 lt/dk				
FODF.015.2.2.P	G 1/2"	0,3...30 lt/dk				
FODF.025.2.2.P	G 1"	1...110 lt/dk				

*Please consult factory up to 400 bar

Accuracy : $\pm 0,5$ % of Reading.

Power Supply : 5...24VDC

Outputs : NPN,pulse output, 4-20 mA as optional