



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

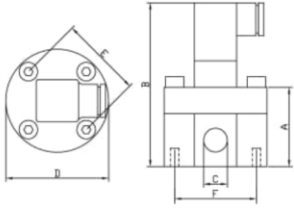
Type Number	Connection Size	Range	Body	Gears and Shaft	Medium Temp. °C	Pmax* (bar)
FODF.002.2.1.P	G 1/8"	0,5...150 ml/min	Aluminum	AISI316	-30...80	100
FODF.003.2.1.P		3...300 ml/min				
FODF.005.2.1.P		5...1000 ml/min				
FODF.006.1.1.P		0,5...100 L/h				
FODF.009.1.1.P	G 1/4"	0,1...10 l/min		Aluminum		40
FODF.012.1.1.P	G 1/2"	0,3...30 l/min				
FODF.025.1.1.P	G 1"	1...110 l/min				
FODF.003.2.2.P	G 1/8"	0,5...150 ml/min	AISI316	AISI316	-30...80	100
FODF.005.2.2.P		3...300 ml/min				
FODF.005.2.2.P		5...1000 ml/min				
FODF.006.2.2.P		0,5...100 L/h				
FODF.008.2.2.P	G 1/4"	0,1...10 l/min				100
FODF.015.2.2.P	G 1/2"	0,3...30 l/min				
FODF.025.2.2.P	G 1"	1...110 l/min				

*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

Aluminium Body

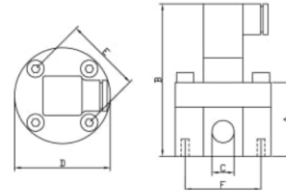


A = Body thickness B = Total height of shape
 C = Inlet and outlet D = Outer diameter
 E=Assembly screw +Thread hole center distance
 F=Mounting screw +Thread hole center distance

Model	002	003/005	006	009	012	025
A	30	30	30	40	44	58
B	62	62	62	75	79	93
C	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{1}{4}$	G $\frac{1}{2}$	G1
D	39	39	49	64	84	99
E	M4x31	M4x31	M4x42	M5x54	M5x70	M6x90
F	M4x31	M4x31	M4x42	M5x54	M5x72	M6-63.6

unit: mm

Stainless Steel Body

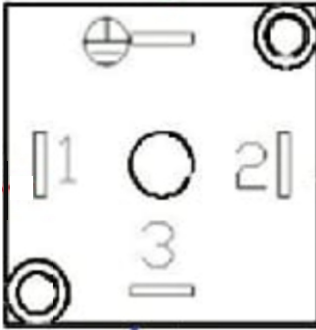


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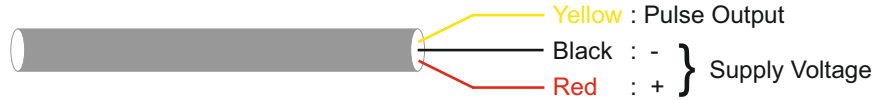
Model	002	003/005	006	009	012	025
A	38	35	40	46.5	56	72
B	70	68	72	81	91	107
C	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{1}{4}$	G $\frac{1}{2}$	G1
D	39	39	49	64	89	113.5
E	M4x31	M4x31	M4x42	M5x54	M5x80	M6x103
F	M4x31	M4x31	M4x42	M5x54	M5x50	M6-60

unit: mm

ELECTRICAL WIRING



PIN 1 : 5-26 VDC
 PIN 2 : PULSE
 PIN $\perp$: GND



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