POSITIVE DISPLACEMENT MECHANICAL FLOWMETERS FOR VISCOUS FLUIDS

FPDM1000 Series

1 YEAR WARRANTY CE

- **0 to 1000 cP Viscosity Standard, 1,000,000 cP Viscosity Rotor Available**
- **Cumulative and Resettable Totals**
- **Meter Design Minimizes the Number of Wearable Parts—Extending Product Life**
- **Handles Particle Sizes to 0.28 mm (0.011") on ½ and 1" Sizes, 0.38 mm (0.015") on Larger Sizes**

The mechanical oval gear FPDM1000 Series is available with NPT or Flange connections. This meter is ideally suited for viscous fluids which are difficult to meter with a turbine type flowmeter. Choose from either Aluminum or 316 Stainless Steel body. The FPDM1000 Series can handle a wide range of fluid viscosities.

FPDM1004-L shown larger than actual size.

SPECIFICATIONS

Accuracy: ±1.0% of reading
Repeatability: ±0.03%
Mounting: Shafts must be in a horizontal plane. Cap Screws should not point up or down.
Fitting Type: NPT (Female) or Flange
Maximum Viscosity: 1,000 cP (STD); Optional 1,000,000 cP High Viscosity Rotor (-HV)
Strainer Size: 60 mesh [Handles particle sizes to 0.28 mm (0.011") on ½ and 1" models and 0.38 mm (0.015") on larger sizes]

Dimensions

Meter Size	Length mm (inches)	Height mm (inches)
½"	100.0 (3.94)	112 (4.41)
1"	170.1 (6.70)	112 (4.41)
1½"	240.0 (9.45)	178 (7.01)
2"	240.0 (9.45)	178 (7.01)

Wetted Materials		
Housing	**Aluminum**	**Stainless Steel**
Bearings for ½" units	PPS	PPS
Bearings for 1" units and larger	PPS	Carbon
Shaft	316SS	316SS
Rotor for ½" units	PPS	PPS
Rotors for 1" units and larger	PPS	316SS
Gear train	Acetal	Acetal
O-ring	FKM	FKM

FPDM1007-L shown smaller than actual size.

FPDM1005-L shown smaller than actual size.

Meter Size	Weight kg (lb)	Max Temp °C (°F)	Max Pressure Bar (psi)
½" Aluminum	1.7 (3.75)	80 (176)	34.5 (500)
½" Stainless Steel	2.9 (6.5)	80 (176)	34.5 (500)
1" Aluminum	2.2 (4.9)	80 (176)	34.5 (500)
1" Al w/ 150# Flange	3.1 (7.0)	80 (176)	Flange Rule
1" SS	5.3 (11.7)	120 (248)	34.5 (500)
1" SS w/150# Flange	6.2 (13.6)	120 (248)	Flange Rule
1½" Aluminum	4.5 (9.9)	80 (176)	34.5 (500)
1½" Al w/150# Flange	5.4 (12.0)	80 (176)	Flange Rule
1½" SS	8.0 (17.6)	120 (248)	34.5 (500)
1½" SS w/150# Flange	9.2 (20.2)	120 (248)	Flange Rule
2" Aluminum	7.8 (17.1)	80 (176)	55 (800)
2" Al w/150# Flange	9.1 (20.1)	80 (176)	Flange Rule
2" SS w/150# Flange	21.0 (46.3)	120 (248)	Flange Rule

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To Order

Aluminum Body Model No.	316 SS Body Model No.	Standard Connection	Flow Range, GPM (LPM)	
			Std Viscosity (5 to 1000 cP)	Low Viscosity (< 5 cP)
FPDM1004	**FPDM1204**	½ NPT	0.26 to 7.9 (1 to 30)	0.80 to 6.6 (3 to 25)
FPDM1005	**FPDM1205**	1 NPT	1.6 to 32 (6 to 120)	2.6 to 26.4 (10 to 100)
FPDM1006	**FPDM1206**	1½ NPT	2.6 to 66 (10 to 250)	4 to 62 (15 to 235)
FPDM1007	**FPDM1207**	150# Flange	4 to 92.5 (15 to 350)	8 to 79 (30 to 300)

***** *Aluminum models are not recommended for water applications.*
Comes complete with operator's manual.
***Ordering Examples: FPDM1005,** aluminum 1" flowmeter.*
***FPDM1206-F**, stainless steel 1½" flowmeter with 150# flange.*

Options

Description	Order Suffix	Availability
PTFE O-Rings	**-T**	FPDM1004, 1204
		FPDM1005, 1205
		FPDM1006, 1206
		FPDM1007, 1207
1,000,000 cP High Viscosity Rotor	**-HV**	FPDM1004
		FPDM1205
		FPDM1206
		FPDM1207
150# Flange Fittings	**-F**	FPDM1005, 1006, 1205, 1206
Liter Display	**-L**	All models