POSITIVE DISPLACEMENT MECHANICAL FLOWMETERS FOR VISCOUS FLUIDS



- ✓ 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.

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 1/2 and 1" models and 0.38 mm (0.015") on larger sizes]

Dimensions

Meter Size	Length mm (inches)	Height mm (inches)		
1/2"	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)		



larger than actual size.

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, \$3485, shown smaller than actual size.

FPDM1005-L, \$1404, shown smaller than actual size.

FPDM1005 SERIES FLOWMETER

MOST POPULAR MODELS HIGHLIGHTED!

	Contractor of	~	
Meter Size	Weight kg (lb)	Max Temp °C (°F)	Max Pressure Bar (psi)
1/2" Aluminum	1.7 (3.75)	80 (176)	34.5 (500)
1/2" 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
11/2" Aluminum	4.5 (9.9)	80 (176)	34.5 (500)
11/2" Al w/150# Flange	5.4 (12.0)	80 (176)	Flange Rule
1½" SS	8.0 (17.6)	120 (248)	34.5 (500)
11/2" 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
2" Al w/150# Flange	9.1 (20.1)	80 (176)	Flange Rule

FPDM1007 SERIES FLOWMETER

To Order (Specify Model Number)

					Flow Range	e, GPM (LPM)
Aluminum Body	Duine	316 SS Body	Drice	Standard	Std Viscosity	Low Viscosity
Model No.	Price	Model No.	Price	Connection	(5 to 1000 cP)	(< 5 cP)
FPDM1004	\$1052	FPDM1204	\$2027	1⁄2 NPT	0.26 to 7.9 (1 to 30)	0.80 to 6.6 (3 to 25)
FPDM1005	1404	FPDM1205	3560	1 NPT	1.6 to 32 (6 to 120)	2.6 to 26.4 (10 to 100)
FPDM1006	2069	FPDM1206	4775	1½ NPT	2.6 to 66 (10 to 250)	4 to 62 (15 to 235)
FPDM1007	3485	FPDM1207	8953	150# Flange	4 to 92.5 (15 to 350)	8 to 79 (30 to 300)
CM-0498	100	Reference Book: Viscous Flows				

* Aluminum models are not recommended for water applications.

Comes complete with operator's manual.

Add suffix "-**T**" to model number for PTFE O-rings, and **\$100** to price for FPDM1204/1004, **\$145** for FPDM1205/1005, **\$155** for FPDM1206/1006, **\$179** for FPDM1207/1007.

Add suffix "**-HV**" to model number for 1,000,000 cps high viscosity rotor option, and **\$291** for 1204/1004/1005/1006/1007, **\$955** for FPDM1205, **\$1195** for FPDM1206, **\$1450** for FPDM1207.

Add suffix "-F" to AL or 316 SS 1" and larger models for 150# flange, and **\$282** to price.

Add suffix "-L" to model number for liter model, no additional charge.

Ordering Examples: FPDM1005, aluminum 1" flowmeter, \$1404.

FPDM1206-F, stainless steel 1½["] flowmeter with 150# flange, \$4775 + 282 = **\$5057.**

Options

	options				
	Description	Order Suffix	Add'l Cost	Availability	
;	PTFE O-Rings	-т	\$100	FPD1004, 1204	
			145	FPD1005, 1205	
			155	FPD1006, 1206	
			179	FPD1007, 1207	
	1,000,000 cP High Viscosity Rotor	-HV	291	FPD1004, 1005, 1006, 1007, 1204	
			955	FPDM1205	
			1195	FPDM1206	
			1450	FPDM1207	
	150# Flange Fittings	-F	282	FPDM1005, 1006, 1205, 1206	
	Liter Display	-L	N/C	All models	
	F 00				

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