

# OM SERIES MECHANICAL FLOW METER



## SPECIFICATIONS

<b>Technology:</b>	Oval Gear	
<b>Line Size Available:</b>	½" (4 mm)	
	1" (25 mm)	
	1½" (40 mm)	
	2" (50 mm)	
	3" (80 mm)	
	4" (100 mm)	
<b>Accuracy (% of reading):</b>	± 1.0% of reading	
<b>Repeatability:</b>	Typically ± 0.03% of reading	
<b>Material Housing:</b>	Aluminum	
	316L Stainless Steel	
<b>Fitting Type:</b>	00	No fittings (025-100E)
	10	BSPP (G) female threaded (ISO 228)
	20	NPT female threaded
	40	ANSI-150 RF Flanged
	50	ANSI-300 RF Flanged (015-050)
	60	PN16 DIN Flanged
<b>Flow Range:</b>	(015) ½"	0.26-10.6 GPM (1-40 L/min)
	(025) 1"	2.6-40 GPM (10-150 L/min)
	(040) 1½"	4-66 GPM (15-250 L/min)
	(050) 2"	8-130 GPM (30-500 L/min)
	(080) 3"	10-200 GPM (35-750 L/min)
	(080E) 3"	13-260 GPM (50-1000 L/min)
	(100) 4"	20-400 GPM (75-1550 L/min)
	(100E) 4"	40-660 GPM (150-2500 L/min)
<b>Recommended Filtration:</b>	½", 1", 1½", 2"	100 mesh [150 µm]
	3" & 4"	40 mesh [350 µm]
<b>Pressure Rating:</b>	20-40 bar (285-580 psi) Size Dependent	
<b>Operating Temperature:</b>	5°F - 176°F (-15°C - 80°C)	

The **FLOMEC® OM Series Oval Gear Flow Meters** with mechanical display are well suited to precise volumetric flow measurement of clean liquids. This range of flow meters provides many of the advantages of the electronic version of the OM Series flow meters with a rugged mechanical display that provides trouble-free installation and usage in remote areas or areas with no power.

## FEATURES / BENEFITS

- High accuracy oval gear technology with low pressure drop can be used in gravity-fed applications
- No requirement for flow conditioning or straight pipe runs makes them ideal for compact installations with limited space
- Robust aluminum mechanical registers
- Optional air eliminator/strainers
- Ideal for remote environments or unpowered sites

## APPLICATIONS (Typical application but not limited to)

- Diesel fuel
- Biofuels
- Glycols / Anti-Freeze
- Lubricating oils and greases

## APPROVALS / WARRANTY



NEMA  
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IP54/65



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GREAT PLAINS INDUSTRIES



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## MECHANICAL FLOW METER

### DIMENSIONS

Flow Meter Size & Fitting		Dimension "A"	Dimension "B"	Dimension "C"
15	NPT	5.8 in. (14.7 cm)	7.3 in. (18.5 cm)	6.3 in. (16 cm)
25	NPT	6.9 in. (17.5 cm)	7.3 in. (18.5 cm)	7 in. (17.8 cm)
	ANSI Flange	9.3 in. (23.6 cm)	7.3 in. (18.5 cm)	8 in. (20.3 cm)
40	NPT	7.2 in. (18.3 cm)	7.4 in. (18.8 cm)	8.9 in. (20.6 cm)
	ANSI Flange	9.8 in. (24.9 cm)	7.4 in. (18.8 cm)	9.7 in. (24.6 cm)
50	NPT	8.3 in. (21.1 cm)	8.6 in. (21.8 cm)	9.3 in. (23.6 cm)
	ANSI Flange	10.9 in. (27.7 cm)	7.8 in. (19.8 cm)	10.4 in. (26.4 cm)
80	ANSI Flange	10.7 in. (27.2 cm)	7.8 in. (19.8 cm)	9.5 in. (24 cm)

\*Maximum flow reduces as viscosity increases, see flow de-rating guide.  
 Max recommended Pressure drop is 14.5 psi (1 bar).

