

MODELS OM004 · OM006 · OM008

FLOMEC OM Small Capacity Oval Gear Meters

Aluminium oval gear meters for low flows from 1 L/hr, in 1/8, 1/4 and 3/8 in sizes. Choose a pulse only meter or an RT40 or RT14 display, with BSPP or NPT female ports.



1 to 550 L/hr

Across three sizes, at 3 cP

±1.0%

Of reading at 3 cP

±0.03%

Typical repeatability

Key features

- Only two moving parts, no straight pipe runs needed
- Measures high and low viscosity liquids
- Pulse models: combined reed switch and Hall effect sensor
- Stainless steel rotors on OM004 and OM006, PPS rotors on OM008
- Recommended filtration 200 mesh (75 µm)
- Max recommended pressure drop 1 bar

Technical data

SPECIFICATION	VALUE
Order codes	Base codes OM004A511, OM006A511, OM008A001. 24 variants, the suffix sets connection, output and register
Flow range at 3 cP	OM004 1.0 to 36 L/hr. OM006 2 to 100 L/hr. OM008 15 to 550 L/hr
Accuracy	±1.0% of reading at 3 cP
Repeatability	Typically ±0.03% of reading
Max pressure	15 bar (220 psi), threaded aluminium meter
Connections	Code 1: BSPP (G) female, ISO 228. Code 2: NPT female
Construction	Aluminium body (A). OM004, OM006: stainless steel rotors, carbon ceramic bearings (51). OM008: PPS rotors, no bearing (00). FKM (Viton) O-rings, -15 °C min (1)
Max temperature	Code -2: 120 °C. Code -8 (integral instruments): 80 °C
Pulse output	Reed switch 30 VDC x 200 mA max. Hall effect NPN 3 wire open collector, 5 to 24 VDC, 20 mA max
Nominal pulses per litre	Reed: 2800, 1050, 355. Hall: 2800, 1050, 710 (OM004, OM006, OM008)
Displays	R4: RT40 backlit LCD rate totaliser. R5: RT14 backlit rate totaliser with all outputs
Protection	IP66/67

Installation and use

Fit a 200 mesh (75 µm) strainer ahead of the meter. Maximum flow reduces as viscosity rises, so check the Flomec flow de-rating guide for thick fluids.