

MODELS OM015 • OM025 • OM040 • OM050

FLOMEC OM Medium Capacity Oval Gear Meters

Aluminium oval gear meters with PPS rotors in 1/2, 1, 1.5 and 2 in sizes. Choose a pulse only meter, an RT40 or RT14 display, or an M3 mechanical register, with BSPP, NPT or ANSI 150 flanged ends.



1 to 500 L/min

Across four sizes, at 3 cP

±0.5%

Of reading at 3 cP, pulse and electronic models

±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
- M3 register: 4 digit mechanical totaliser in litres
- Recommended filtration 100 mesh (150 µm)
- Max recommended pressure drop 1 bar

Technical data

SPECIFICATION	VALUE
Order codes	Base codes OM015A001, OM025A001, OM040A001, OM050A001. 57 variants, the suffix sets connection, output and register
Flow range at 3 cP	OM015 1 to 40 L/min. OM025 10 to 150 L/min. OM040 15 to 250 L/min. OM050 30 to 500 L/min (PPS rotors)
Accuracy	±0.5% of reading at 3 cP (pulse and electronic). ±1% of reading with M3 register
Repeatability	Typically ±0.03% of reading
Max pressure, threaded aluminium	Pulse and electronic: 68 bar (OM015, OM025), 30 bar (OM040), 20 bar (OM050). M3: 40, 40, 30, 20 bar
Connections	Code 1 or 10: BSPP (G) female, ISO 228. Code 2 or 20: NPT female. Code 4 or 40: ANSI 150 RF flanged
Construction	Aluminium body (A), PPS rotors with 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: 84, 27, 14, 6.5. Hall: 168, 107, 56, 26 (OM015, OM025, OM040, OM050)
Displays	R4: RT40 backlit LCD rate totaliser. R5: RT14 backlit rate totaliser with all outputs. M3: 4 digit mechanical, litres
Protection	IP66/67 pulse and electronic. M register IP65 (NEMA 4)