

Metra-clear Oval Gear Meter

Technical Product data sheet



Features

- Rugged construction
- High visibility
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall or reed switch sensor
- Accuracy $\pm 0.5\%$ reading *
- 0.1% repeatability
- IP67/NEMA 4 protection
- Non-metallic option
- 10 Bar pressure
- 80°C maximum temperature
- 5 flow ranges

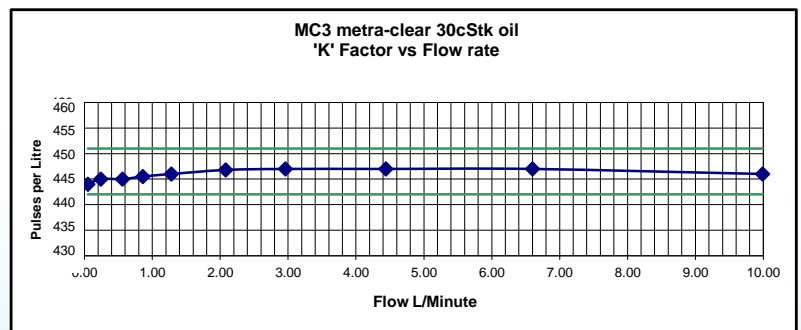
* When used with our metra-smart instrument

Ideal for

- ◆ Engine test
- ◆ Critical oil flow
- ◆ High viscosity fluids
- ◆ OEM equipment

Metra-clear Oval Gear Meter

The compact rugged acrylic topped oval gear flowmeter is designed to give high performance with a low cost of ownership. The meters cover flow ranges from 0.01 to 100 L/Min on 30 Cstk oil and 0.1 to 100 L/min on water like liquids. For OEM use alternatives, including manifold mountings, are available. The standard models have 316 St aluminium or PEEK™ bodies with Viton™ 'O' ring seals. For general meter specification see the appropriate OG data sheet.



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Metra-clear Oval Gear Meter

Order Codes

Model	MC1 MC2 MC3 MC4 MC5
Body material	S - 316 St St A - Aluminium P - PEEK™
Temp rating	S - 80°C 158°F
Pressure rating	1 - 10 Bar 150 PSI
Seal material	V - Viton™ N - Nitrile E - EPDM K - Kalrez
Detector type	H - Hall Effect R - Reed switch
Pipe thread	Q - ¼" (OG1&2 standard) H - ½" (OG3 standard) T - ¾" (OG4 standard) U - 1" (OG5 standard)
Connections	B - BSP F N - NPT F F - Flanged (specify)

e.g. A stainless steel meter rated at 80°C, 10 Bar, with Viton™ seal, Hall effect detector and a ½" BSP thread would have the order code :- **MC3-SS1-VHH-B**

Model	Max flow Litres/Min	'K' factor pulses/litre	Accuracy water	Accuracy oil 30 Cstk
MC1	1.0	2050	± 1.0% FSD	± 0.75% FSD
MC2	4.0	1100	± 1.0% FSD	± 0.5% FSD
MC3	10	400	± 0.5% FSD	± 0.5% FSD
MC4	50	100	± 0.5% FSD	± 0.5% FSD
MC5	100	70	± 1.0% Reading	± 0.5% Reading

Metra-clear Oval Gear Meter

At the heart of the meter are a pair of highly visible toothed oval gears one of which contains chemically resistant magnets, the gears rotate freely on robust bearings. Rotation is detected through the chamber wall by a Hall Effect detector or a reed switch giving an accurate number of pulses per litre passed. The output is an NPN pulse or a voltage free contact closure either of which is readily interfaced with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable, accurate operation throughout.



For general details of a specific size of meter refer to the OG data sheet for that model.

