



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment

PRODUCT DATASHEET

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OM High Pressure (Small) Oval Gear Flowmeter

FLOMEC® OM Series, Small Capacity, High Pressure Flow Meters provide volumetric measurement of low flow, clean liquids up to 400 bar. Suitable for applications including metering lubricants, chemicals, grease, additives, and other high viscosity fluids.



Features & Benefits

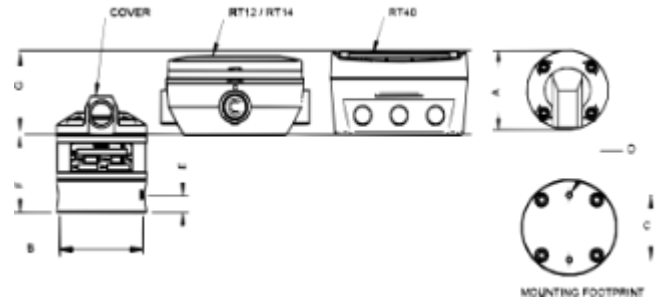
- High accuracy and repeatability
- No requirement for flow conditioning
- Measures both high and low viscosity liquids
- Optional Exd I/IIB approval (ATEX, IECEx)
- High pressure rated up to 400 bar

Technical Data

	OM004H	OM006H	OM008H
Flow Range L/HR	1-36	2-100	15-550
Connection Size	1/8"	1/4"	1/4"
Meter Factor Reed Switch (Pulses per litre)	2800	1050	355
Meter Factor Hall Effect (Pulses per litre)	2800	1050	710
Meter Factor High Resolution	11,200	4,200	/
Body Material	316 Stainless Steel		
Gear Material	Carbon filled PPS or Stainless Steel with Carbon/Ceramic bearings		
Seals	Viton (standard), options for PTFE encapsulated Viton or Buna-N (Nitrile)		
Linearity	+/- 1.0% of reading		
Max Pressure (Bar)	400		
Max Temperature (°C)	120°C standard, 150° high temperature version, 80°C with directly mounted display and OM008 with PPS gears		
Output	Reed switch (30V, 200 mA max) or Hall effect NPN pulsed output (5-24 Vdc, 20 mA max)		
Options	Explosion Proof, high resolution and directly mounted battery powered displays (ATEX/IECEX versions)		

Dimensional Data

	004H	006H	008H
A	74	74	100
F+G (RT14)	122	122	148
F+G (RT40)	125	125	151
F+G (cover)	92	92	184



Ordering Information

OM004 H 51 I I - 8 I I R5

Meter Size	
0.5-36 L/Hr (1/8")	OM004
2-100 L/Hr (1/4")	OM006
15-550 L/Hr (1/4")	OM008

Body Material	
High Pressure 316 Stainless Steel 400 Bar	H

Gear Material	
PPS (not available for 150oC meters, OM008 only)	00
Stainless Steel (standard on OM004 & OM006, option for OM008)	51
Keishi cut High Viscosity Gears in Stainless Steel (OM008 only)	71

Seal Material	
Viton (standard) -15 to +200°C	1
PTFE encapsulated Viton	3
Buna-N (Nitrile) -65 to +100°C	4

Cable Entries	
M20x1.5 (M16x1.5 for R4 & R7)	1
1/2" NPT	2
3x 16mm drilled holes (for F series & RT40 instruments only)	6

Connections	
BSPF female	1
NPT female	2

Temperature Limits	
120°C	2
150°C (Hall effect output only)	3
120°C (for integral instruments and includes cooling fin)	5
80°C (Meters with integral instruments or OM008 with PPS gears)	8

Integral Options	
No option (just pulsed output)	--
Reed Switch Only (for Intrinsically safe applications)	RS
Explosion proof Exd IIB T3...T6 (Aluminium & Stainless Steel meters) [IECEX & ATEX approved]	E1
Explosion proof Exd I/IIB T3...T6 (Stainless Steel meters only) [IECEX & ATEX approved]	E2
High Resolution Hall Effect output (004 - 006 only)	HR
Explosion proof ~ Exd with HR Hi-Res. Hall option (004-006 only)	H1
RT40 backlit rate totaliser with all outputs (Alloy housing with facia protector) [scalable pulse output, backlight]*#	R4
RT14 backlit rate totaliser with all outputs (GRN housing) [scaled pulse, alarms, 4-20mA, backlight]*#	R5
Intrinsically safe RT14 backlit rate totaliser with all outputs (GRN housing) [scaled pulse, alarms, 4-20mA, backlight][IECEX & ATEX approved]*#	R6
RT40 backlit rate totaliser with all outputs (GRN housing) [scalable pulse output, backlight]*#	R7
E018 backlit rate/tot, pulse, 4-20 mA, lin, HART (All), Incl. Line Bushing [IECEX & ATEX approved]*#	E18
E018 backlit rate/tot, pulse, 4-20 mA, lin, HART (SS), Incl. Line Bushing [IECEX & ATEX approved]*#	E19
F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART#	F18
F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART [IECEX & ATEX approved]*#	F19
F130 Intrinsically Safe 2 stage batch controller [IECEX & ATEX approved]*#	F31

*Temp code 5 required for integral instruments between 176°F (80°C) & 250°F (120°C)

#Temp code 8 required for integral instruments below 176°F (80°C)

+ Derate pressure rating by 70%