UK Flowtechnik

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

PRODUCT DATASHEET

UK Flowtechnik Ltd
1 Central Park
Lenton Lane
Nottingham
NG7 2NR
United Kingdom

Phone +44 (0) 11 59 01 71 11
UK Free Phone 0800 4334 770
Fax +44 (0) 11 59 86 88 75

sales@ukflowtechnik.com
www.ukflowtechnik.com

OM High Pressure (Medium) Oval Gear Flowmeter

FLOMEC® OM Medium High Pressure Flow Meters provide volumetric measurement of clean liquids for high pressure. Suitable for applications including metering lubricants, chemicals, grease, additives, and other high viscosity fluids.

Features & Benefits

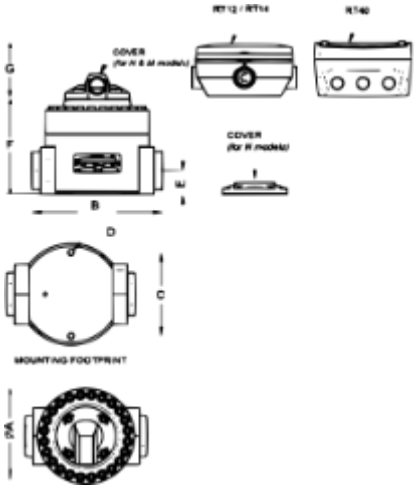
- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Measures both high and low viscosity liquids
- Optional Exd I/IIB approval (ATEX, IECEx)
- High Pressure rated up to 400 bar, 300 bar on 2 " meter

Technical Data

	OM015H	OM025H	OM040H	OM050H
Flow Range l/min	1-40	10-150	15-250	30-500 (30-450 with Stainless Steel gears)
Connection Size	1/2	1"	1.1/2"	2"
Reed Switch Meter Factor (Pulses per litre)	84	27	14	6.5
Hall Effect Meter factor (Pulses per litre)	168	107	56	26
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	+/- 0.5% of Reading			
Max Pressure (Bar)	400			300
Max Temperature (°C)	120°C standard, 150° high temperature version, 80°C with directly mounted display			
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

	015H	025H	040H	050H
A	120	120	160	180
B	112	152	217	236
F+G (RT14)	153	173	218	233
F+G (RT40)	155	175	220	235
F+G (cover)	124	144	189	204



Ordering Information

0M015	H	7I	I	-	2	I	I	EI

Meter Size

1-40 l/min (½")	OM015
10-150 l/min (1")	OM025
15-250 l/min (1.1/2")	OM040
30-450 l/min (2") (with Stainless Steel gears)	OM050
30-500 l/min (2") (with PPS gears)	OM050

Body Material

High Pressure 316 Stainless Steel 400 Bar (OM050 300 Bar max)	H

Gear Material

PPS (not available for 150oC meters)	00
PPS Keishi cut High Viscosity gears (not available for 150oC meters)	10
Stainless Steel	51
Keishi cut High Viscosity Gears in Stainless Steel	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
½" NPT	2
3x 16mm drilled holes (for F series & RT40 instruments only)	6

Connections

BSPP 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 mines 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 (Al), 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 rations by 70%