



PRODUCT CONFIGURATION

PRODUCT IDENTIFIER 1

OM = Oval Gear Meter

METER SIZE 2

015 = 1/2" (15 mm), 0.26-10.6 GPM (1-40 L/min)

025 = 1" (25 mm), 2.6-40 GPM (10-150 L/min)

040 = 1.5" (40 mm), 4-66 GPM (15-250 L/min)

050 = 2" (50 mm), 8-130 GPM (30-500 L/min) (PPS rotors)

BODY MATERIAL 3

H = High Pressure 316L SS

(5800 PSI / 400 bar)

(4350 PSI / 300 bar, 050 size)

ROTOR MATERIAL / BEARING TYPE 4

00 = PPS (Not available for 300°F (150°C) meters) / No bearing

10 = Keishi Cut PPS (for high viscosity liquids) (Not available for 300°F (150°C) meters) / No bearing

51 = Stainless Steel / Carbon Ceramic

71 = Keishi cut Stainless Steel (for high viscosity liquids) / Carbon Ceramic

O-RING MATERIAL

1 = Viton™ 5°F m" (-15°C)

3 = Teflon encapsulated Viton™ 5°F m" (-15°C)

4 = Buna-N (Nitrile), -40° F minimum (-40° C)

MAXIMUM TEMPERATURE LIMIT

-2 = 250° F (120° C) max.

-3* = 300° F (150° C) max. (Hall Only) (includes SS terminal cover)

-5 = 250° F (120° C) max. (includes integral cooling fin)

-8 = 176° F (80° C) max. (meters with integral instruments, OM008 with PPS rotors)

PROCESS CONNECTIONS

1 = BSPP (G) female threaded (ISO 228)

2 = NPT female threaded

CABLE ENTRIES

1 = M20 x 1.5 mm (M16 x 1.5mm for R4 options)

2 = 1/2" NPT

6 = 3 x 16 mm drilled holes (for F instruments only)

OM SERIES MEDIUM CAPACITY HIGH PRESSURE

FLAMEC® OM Medium Capacity 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/IB approval (ATEX, IECEx)
- High Pressure rated up to 5580 psi (400 bar) (4350 psi [300 bar] on 2" meter)

INTEGRAL OPTIONS 9

___ = Combination Reed Switch and Hall Effect Sensor

SS = Stainless steel terminal cover]

RS = Reed Switch only - to suit Intrinsically Safe installations

E1 = Explosion proof Exd IIB T3...T6 [IECEx & ATEX approved]

E2 = Explosion proof Exd I/IB T3...T6 [IECEx & ATEX mines approved]

R3 = Intrinsically Safe rate totalizer with all outputs (GRN housing) [IECEx & ATEX approved]*#

R3G = RT12 Intrinsically Safe rate totalizer with all outputs (GRN Housing) [IECEx & ATEX approved] (with gallons calibration)*#

R4 = RT40 backlit rate totalizer with all outputs (Alloy housing with facia protector) [scalable pulse output, backlight]*#

R4G = RT40 rate totalizer with backlit large digit LCD (Alloy housings with facia) (with gallons calibration)*#

R5 = RT14 backlit rate totalizer with all outputs (GRN housing) [scaled pulse, alarms, 4-20mA, backlight]*#

R5G = RT14 backlit rate totalizer with all outputs (GRN Housing) (with gallons calibration)*#

E0 = EB10 batch controller [2 stage DC batcher & totaliser] (GRN Housing)*#

E0G = EB10 batch controller [2 stage DC batcher & totalizer] (with gallons calibration) (GRN Housing)*#

E18 = ATEX/IECEx EXd E018 backlit rate/tot, pulse, 4-20mA, lin, HART (AI), Incl. Line Bushing [IECEx & ATEX approved]#

E19 = ATEX/IECEx EXd E018 backlit rate/tot, pulse, 4-20mA, lin, HART (SS), Incl. Line Bushing [IECEx & ATEX approved]#

F18 = F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART#

F19 = F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART#

F31 = F130 Intrinsically Safe 2 stage batch controller#

--->>>> **1** **2** **3** **4** **5** **6** **7** **8** **9**
OM 025 H 00 1 -5 1 1 R5

*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)

*Option will de-rate meter pressure ratings by 20%

SPECIFICATIONS

	OM015	OM025	OM040	OM050
Nominal Size:	1/2" (15 mm)	1" (25 mm)	1.5" (40 mm)	2" (50 mm)
Nominal Flow* Range @ 3cP:	0.26-10.6 GPM (1 - 40 L/min)	2.6-40 GPM (10-150 L/min)	4-66 GPM (15-250 L/min)	8-118 GPM (30-450 L/min) (SS Rotors)
				8-130 GPM (30-500 L/min) (PPS Rotors)
Accuracy:	± 0.5% of reading (± 0.2% of reading with optional RT14)			
Repeatability:	Typically ± 0.03% of reading			
Max. Pressure - High Pressure meter Bar [psi] (threaded)	5800 psi (400 bar)			4350 psi (300 bar)
Protection Class:	IP66/67 (NEMA 4X) optional EX-d I/II B T4/T6, Integral ancillaries can be supplied with I.S. (Intrinsically Safe)			
Recommended Filtration:	100 mesh (150 µm)			
Electrical:				
Output Pulse Resolution:	Pulses / gallon (Pulses / L) - Nominal			
Reed Switch:	318 (84)	102 (27)	53 (14)	25 (6.2)
Hall Effect:	636 (168)	405 (107)	212 (56)	99 (26)
High Resolution Hall Effect:	636 (168)	204 (54)	106 (28)	49 (13)
Reed Switch Output:	30V (dc) x 200mA Max (Maximum thermal shock 18°F [10°C] /min)			
Hall Effect Output:	3 wire open collector, 5 - 24V (dc) max, 20mA max.			

APPLICATIONS

- Aviation
- Mining
- Power
- Chemical
- Pharmaceutical
- Food
- Paint
- Petroleum Industries
- Environmental

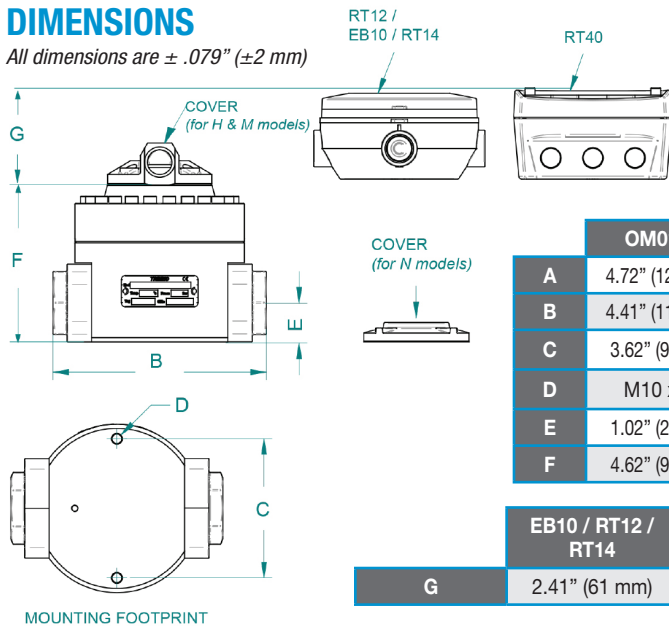
APPROVALS



*Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended Pressure drop is 14.5 psi (1 bar).

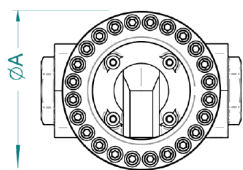
DIMENSIONS




All dimensions are ± .079" (±2 mm)



	OM015H	OM025H	OM040H	OM050H
A	4.72" (120 mm)	4.72" (120 mm)	6.30" (160 mm)	7.09" (180 mm)
B	4.41" (112 mm)	6.03" (152 mm)	8.54" (217 mm)	9.29" (236 mm)
C	3.62" (92 mm)	3.90" (99 mm)	5.28" (134 mm)	consult distributor for mounting footprint
D	M10 x 13	M8 x 16	M10 x 16	
E	1.02" (26 mm)	1.08" (27.5 mm)	1.54" (39 mm)	2.01" (51 mm)
F	4.62" (92 mm)	4.41" (112 mm)	6.18" (157 mm)	6.77" (172 mm)





	EB10 / RT12 / RT14	RT40	COVER (N Meters)	COVER (H & M Meters)
G	2.41" (61 mm)	2.48" (63 mm)	0.51" (13 mm)	1.26" (32 mm)



	3-A Sanitary Standards, Inc. is an independent, not-for-profit corporation dedicated to advancing hygienic equipment design for the food, beverage, and pharmaceutical industries.
ATEX	European directive describing the equipment allowed in an environment with an explosive atmosphere.
	European Explosive Atmosphere Symbol
	Conformity European. Product has been reviewed to one or more of 21 European directives
	Factory Mutual Approved to US Standards.
	Factory Mutual Approved to Canadian and US standards
	Factory Mutual Approved to Canadian standards
	Federal Communication Commission
	International Electrotechnical Committee logo; use of the logo by an organization only shows an association with the IECEx, it does not infer any compliance with standards.
IPxx	Ingress Protection Code
NEMA	National Electrical Manufacturers Association
	European Directive on Restriction of Hazardous Substances
	Canadian Standards Association
	Canadian Standards Association certified to Canadian and US standards
	Manufacturers, regulators and consumers look to NSF International for the development of public health standards and certification programs that help protect the world's food, water, consumer products and environment.

This guide is a generic explanation of the approval marks listed throughout the catalog. See individual product pages for what approvals apply to what products. Approvals vary by product line and may be dependent on meter application.

For additional approval details, please visit gpi.net/approvals.

	Underwriters Laboratories listed to US standards
	Underwriters Laboratories listed to Canadian and US standards
	Underwriters Laboratories listed to Canadian standards
	European directive on waste electrical and electronic equipment (WEEE)