



PRODUCT CONFIGURATION

OM SERIES SMALL CAPACITY (OVAL GEAR METERS)

The **FLOMEC® OM Small Capacity Oval Gear Meters** have a large flow range and offer the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability.

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- Measures high and low viscosity liquids
- No requirement for flow conditioning (straight pipe runs)
- Stainless Steel rotors (Optional PPS rotor for OM008 meter only)
- Quadrature pulse output option and bi-directional flow
- Optional Exd I/IB approval (ATEX, IECEx)
- Only two moving parts

PRODUCT IDENTIFIER **1**

OM = Oval Gear Meter

METER SIZE **2**

004 = 1/8" (4 mm), 0.26-9.5 GPH (1.0-36 L/hr)

006 = 1/4" (6 mm), 0.5-27 GPH (2-100 L/hr)

008 = 3/8" (8 mm), 4-145 GPH (15-550 L/hr)

BODY MATERIAL **3**

A = Aluminum

S = 316 Stainless Steel

N = Intermediate Pressure 316L SS (1450 PSI / 100 bar)

ROTOR MATERIAL / BEARING TYPE **4**

00 = PPS (Not available for 300° F (150° C) meters) / No bearing (Available for OM008 only)

51 = Stainless Steel / Carbon Ceramic (Standard on OM004 & OM006, optional for OM008)

71 = Keishi cut Stainless Steel (For high viscosity liquids) / Carbon Ceramic (Available for OM008 only)

O-RING MATERIAL **5**

1 = FKM (Viton™) -5° F minimum (-15° C)

3 = PTFE encapsulated FKM (Viton™) 5° F minimum (-15° C)

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

MAXIMUM TEMPERATURE LIMIT **6**

-2 = 250° F (120° C) max.

-3 = 300° F (150° C) max. (Hall Effect)(Includes Stainless Steel 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 **7**

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

2 = NPT female threaded

B = Bottom entry manifold (SS body only)

CABLE ENTRIES **8**

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

2 = 1/2" NPT

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

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 (Aluminum & Stainless Steel meters) [IECEx & ATEX approved]

E2 = Explosion proof Exd I/IB T3...T6 (Stainless Steel meters only) [IECEx & ATEX mines approved]

QP = Quadrature pulse (2 NPN phased outputs)

Q1 = Explosion proof ~ Exd (with quadrature pulse) [IECEx & ATEX approved]

HR = High Resolution Hall Effect output (004 – 006 only)

H1 = Explosion proof ~ Exd with HR Hi-Res. Hall option (004-006 only)

R3 = RT12 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 rate totalizer with backlit large digit LCD (Alloy housings with facia)*#

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)*#

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

E18 = E018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, aluminium body [IECEx & ATEX approved]#

E19 = E018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, stainless steel body [IECEx & ATEX approved]#

F18 = F018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART#

F19 = F018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, Intrinsically safe# [IECEx & ATEX approved]

F31 = Intrinsically safe F130 2 stage batch controller# [IECEx & ATEX approved]

*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)

SPECIFICATIONS

| | OM004 | OM006 | OM008 |
|--|--|-------------------------|-------------------------|
| Nominal Size: | 1/8" (4 mm) | 1/4" (6 mm) | 3/8" (8 mm) |
| Flow* Range: | 0.26-9.5 GPH (1.0-36 L/hr) | 0.5-27 GPH (2-100 L/hr) | 4-145 GPH (15-550 L/hr) |
| Accuracy* @ 3cp: | ± 1.0% of reading (accuracy is ± 0.2% of reading with optional RT14 with non-linearity correction) | | |
| Repeatability: | Typically ± 0.03% of reading | | |
| Temperature Range: | -40° F to +300° F (-40° C to +150° C) | | |
| Pressure Rating (Threaded Meter): | | | |
| Aluminum | 220 psi (15 bar) | | |
| 316 Stainless Steel | 495 psi (34 bar) | | |
| Intermediate Pressure Stainless Steel | 1450 psi (100 bar) | | |
| Recommended Filtration: | 200 mesh (75 µm) | | |

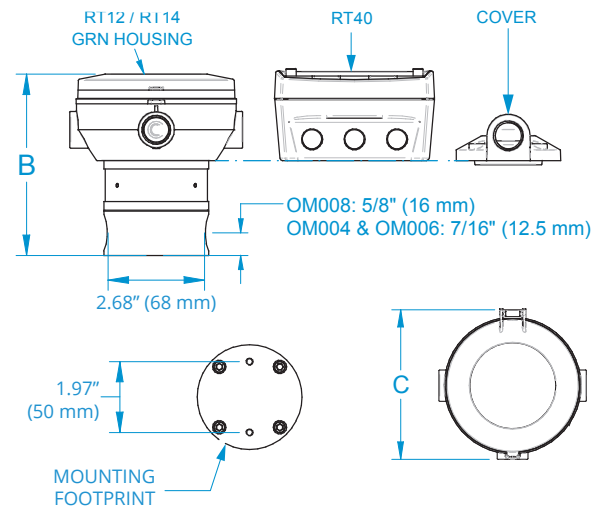
| | OM004 | OM006 | OM008 |
|----------------------------------|--|--------------|------------|
| Electrical: | | | |
| Output Pulse Resolution: | Pulses / gallon (Pulses / L) - Nominal | | |
| Reed Switch | 10600 (2800) | 3975 (1050) | 1345 (355) |
| Hall Effect | 10600 (2800) | 3975 (1050) | 2690 (710) |
| QP - Quadrature Hall option | 10600 (2800) | 3975 (1050) | 2690 (710) |
| HR - High Resolution Hall Effect | 42400 (11200) | 15900 (4200) | n/a |
| Reed Switch Output | 30V (dc) x 200mA max. [maximum thermal shock 18° F (10° C) / minute] | | |
| Hall Effect Output (NPN) | 3 wire open collector, 5-24V (dc) max., 20mA max. | | |
| Optional Outputs | 4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control | | |

*Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max recommended pressure drop is 14.5 psi (1 bar).
 *When used to meter rate, at very low flow rates, the rate can jump, due to resolution (not accuracy).

DIMENSIONS

| OPTION | B | | | C |
|-------------------------|---------------|---------------|---------------|---------------|
| | OM004 | OM006 | OM008 | — |
| RT12 / RT14 GRN HOUSING | 4.8" (122 mm) | 4.8" (122 mm) | 5.0" (129 mm) | 4.9" (124 mm) |
| RT40 | 4.9" (125 mm) | 4.9" (125 mm) | 5.2" (132 mm) | 3.8" (96 mm) |
| COVER | 3.6" (92 mm) | 3.6" (92 mm) | 3.9" (99 mm) | 2.8" (72 mm) |

*All dimensions are ± .079" (±2mm)



APPLICATIONS

- Oils
- Fuel
- Diesel
- Truck Metering
- Chemical Additive Injection
- Batching
- Molasses
- Clean Fluids
- Bunker C Fuel Oil
- Oil-Based Paints
- Industrial Fluids
- Chemical Feed Lines

APPROVALS



Service & Warranty: For technical assistance, warranty replacement or repair contact your **FLOMEC®** or **GPI®** distributor. In North or South America: **888-996-3837 / FLOMEC.net**
 Outside North or South America: **+61 2 9540 4433 / FLOMEC.net**



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 = 1-1/2" (40 mm), 4-66 GPM (15-250 L/min)

050 = 2" (50 mm), 8-118 GPM (30-450 L/min) with SS Rotors

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

BODY MATERIAL **3**

A = Aluminum

M = Intermediate pressure aluminum meter (2000 psi [138 bar] max.) (OM025 only)

S = 316L Stainless Steel

N = Intermediate Pressure 316L SS (OM015-OM025N = 1450 psi [100 bar]) (OM040N-OM050N = 725 psi / 50 bar)

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 **5**

1 = FKM (Viton™) (standard for Alum.) 5° F minimum (-15° C)

3 = PTFE encapsulated FKM (Viton™)

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

MAXIMUM TEMPERATURE LIMIT **6**

-2 = 250° F (120° C) max.

-3 = 300° F (150° C) max. (Hall Effect) (Includes Stainless Steel terminal cover)

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

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

PROCESS CONNECTIONS **7**

0 = No fittings (Not available on 015 size)

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

2 = NPT female threaded

3 = Sanitary Fittings (are 1/2" (13 mm) larger than meter size)

4 = ANSI-150 RF Flanged

5 = ANSI-300 RF Flanged

6 = PN16 DIN Flanged

CABLE ENTRIES **8**

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

2 = 1/2 in. NPT

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

OM SERIES MEDIUM CAPACITY (OVAL GEAR METERS)

The **FLOMEC[®] OM Medium Capacity Meters** are great for medium flow ranges and have the ability to handle a wide range of fluid viscosities.

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- Measures high and low viscosity liquids
- Quadrature pulse output option and bi-directional flow
- Optional Exd I/II approval (ATEX, IECEx)
- No requirement for flow conditioning (straight pipe runs)
- Only two moving parts

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 (Aluminum & Stainless meters) [IECEx & ATEX approved]

E2 = Explosion proof Exd I/IIIB T3...T6 (stainless meters only) [IECEx & ATEX mines approved]

QP = Quadrature pulse (2 NPN phased outputs)

QPN = Quadrature pulse (2 NPN phased outputs) with Australian NZNMI approval for trade sale

Q1 = Explosion proof Exd (with quadrature pulse) [IECEx & ATEX approved]

Q1N = Explosion proof Exd (IECEx & ATEX) with Quadrature pulse with Australian NMI & NZ approval for trade sale (Not available on 015 size)

R3 = Intrinsically safe RT12 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 rate totalizer with backlit large digit LCD [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)*#

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

E18 = E018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, aluminium body [IECEx & ATEX approved] (Not available with 015 size)#

E19 = E018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, stainless steel body [IECEx & ATEX approved] (Not available with 015 size)#

F18 = F018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART#

F19 = F018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART, Intrinsically safe [IECEx & ATEX approved]#

F31 = Intrinsically safe F130 2 stage batch controller [IECEx & ATEX approved]#

1 2 3 4 5 6 7 8 9
---->>>> OM 025 A 51 2 -5 2 1 R4

*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) by 20%

SPECIFICATIONS

| | OM015 | OM025 | OM040 | OM050 |
|--|--|---------------------------|-------------------------|---|
| Nominal Size: | 1/2" (13 mm) | 1" (25 mm) | 1 1/2" (38 mm) | 2" (51 mm) |
| *Flow Range: | 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) 8-130 GPM (30-500 L/min) (PPS) |
| Accuracy @3cp: | ± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT14 with non-linearity correction) | | | |
| Repeatability: | Typically ± 0.03% of reading | | | |
| Temperature Range: | -40° F to +300° F (-40° C to +150° C) refer to factory for lower temperature | | | |
| Pressure Rating (Threaded Meter): | | | | |
| Aluminum | 990 psi (68 bar) | 990 psi (68 bar) | 435 psi (30 bar) | 285 psi (20 bar) |
| Intermediate Pressure Aluminum | | 2000 psi (138 bar) | | |
| 316 Stainless Steel | 990 psi (68 bar) | 990 psi (68 bar) | 435 psi (30 bar) | 550 psi (38 bar) |
| Intermediate Pressure SS | 1450 psi (100 bar) | 1450 psi (100 bar) | 725 psi (50 bar) | 725 psi (50 bar) |

| | OM015 | OM025 | OM040 | OM050 |
|--|--|------------------|------------------|------------------|
| Pressure Rating (Mechanical Meter): | | | | |
| Aluminum | 580 psi (40 bar) | 580 psi (40 bar) | 435 psi (30 bar) | 285 psi (20 bar) |
| 316 Stainless Steel | 580 psi (40 bar) | 580 psi (40 bar) | 435 psi (30 bar) | 285 psi (20 bar) |
| Recommended Filtration | 100 mesh (150 µm) | | | |
| Electrical: | | | | |
| Output Pulse Resolution: | Pulses / gallon (Pulses / L) - Nominal | | | |
| Reed Switch | 318 (84) | 120 (27) | 53 (14) | 25 (6.5) |
| Hall Effect | 636 (168) | 405 (107) | 212 (56) | 99 (26) |
| QP - Quadrature Hall Option | 636 (168) | 204 (54) | 106 (28) | 49 (13) |
| Reed Switch Output | 30V (dc) x 200mA max. [maximum thermal shock 18° F (10° C) / minute] | | | |
| Hall Effect Output (NPN) | 3 wire open collector, 5-24V (dc) max., 20mA max. | | | |
| Optional Outputs | 4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control | | | |

*Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max recommended pressure drop is 14.5 psi (1 bar).

DIMENSIONS

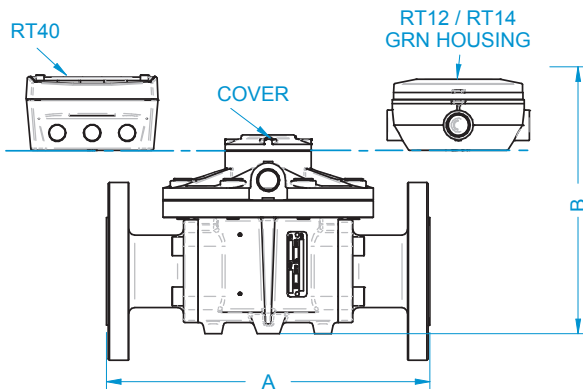
All dimensions are ± .079 (±2 mm)

| Modular Fitting | A | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|----------------|----------------|
| | OM015 | OM025A | OM025S/N | OM040 | OM050 | OM050E |
| A.N.S.I. 150 DIN16 | 7.4" (189 mm) | 7.8" (198 mm) | 9.3" (237 mm) | 9.9" (252 mm) | 10.9" (277 mm) | 10.9" (277 mm) |
| B.S.P N.P.T. | 4.3" (110 mm) | 5.4" (137 mm) | 6.9" (176 mm) | 7.4" (188 mm) | 8.3" (212 mm) | 8.3" (212 mm) |

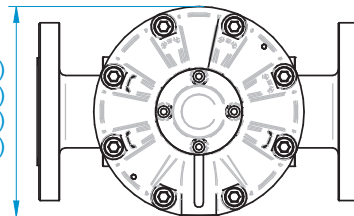
| Configuration | B | | | | | | | |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| | OM015A | OM015S/N | OM025A | OM025S/N | OM040A | OM040S/N | OM050 | OM050E |
| RT12 / RT14 GRN Housing | 6.0" (154 mm) | 5.8" (148 mm) | 6.6" (168 mm) | 6.5" (165 mm) | 7.9" (203 mm) | 7.6" (194 mm) | 8.6" (218 mm) | 10.5" (268 mm) |
| RT40 Alloy Housing | 6.2" (157 mm) | 5.9" (151 mm) | 6.7" (171 mm) | 6.6" (168 mm) | 8.1" (206 mm) | 7.8" (197 mm) | 8.7" (221 mm) | 10.7" (271 mm) |
| Cover | 4.2" (106 mm) | 3.9" (100 mm) | 4.7" (123 mm) | 4.6" (117 mm) | 6.1" (155 mm) | 5.7" (146 mm) | 6.7" (170 mm) | 8.6" (220 mm) |

APPLICATIONS

- Oils
- Fuel
- Diesel
- Truck Metering
- Bunker C Fuel Oil
- Chemical Additive Injection
- Batching
- Molasses
- Clean Fluids
- Oil-Based Paints
- Industrial Fluids
- Chemical Feed Lines



OM040: Ø6.3" (160 mm)
 OM050: Ø7.1" (180 mm)
 OM015: Ø4.3" (110 mm)
 OM025: Ø4.7" (120 mm)



APPROVALS



NEMA 4X

IP66/67

Service & Warranty: For technical assistance, warranty replacement or repair contact your FLOMEC® or GPI® distributor:

In North or South America: 888-996-3837 / FLOMEC.net

Outside North or South America: +61 2 9540 4433 / FLOMEC.net

Wichita · Sydney

GREAT PLAINS INDUSTRIES





PRODUCT CONFIGURATION

PRODUCT IDENTIFIER **1**

OM = Oval Gear Meter

METER SIZE **2**

- 080** = 3 inch (80mm), 10-200 GPM (35-750 L/min)
- 080E** = 3 inch Extended Flow (80mm), 13-260 GPM (50-1000 L/min)
- 100** = 4 inch (100mm), 20-400 GPM (75-1500 L/min)
- 100E** = 4 inch Extended Flow (100mm), 40-660 GPM (150-2500 L/min)
(Only available with Aluminum Rotors)

BODY MATERIAL **3**

- A** = Aluminum
- E** = Extended flow Aluminum version
- S** = 316L Stainless Steel (OM080 only)

ROTOR MATERIAL / BEARING TYPE **4**

- 00** = PPS (not available for 300°F (150°C)) / No bearing
- 10** = Keishi cut PPS (for high viscosity liquids) (not available for 300°F (150°C)) / No bearing
- 44** = Aluminum/Hardened Steel Roller (100E only)
- 51** = Stainless Steel / Carbon Ceramic (080 only)
- 71** = Keishi cut Stainless Steel rotors (for high viscosity liquids) / Carbon Ceramic (080 only)

O-RING MATERIAL **5**

- 1** = FKM (Viton™) -5° F minimum (-15° C)
- 3** = PTFE encapsulated FKM (Viton™) (included KALREZ shaft seals)
5° F minimum (-15° C)
- 4** = Buna-N (Nitrile), -40° F minimum (-40° C)

MAXIMUM TEMPERATURE LIMIT **6**

- 2** = 250° F (120° C) max.
- 3** = 300° F (150° C) max. (OM080 only) (Hall Effect output only)
- 5** = 250° F (120° C) max. (includes integral cooling fin)
- 8** = 176° F (80° C) max. (meters with integral instruments)

PROCESS CONNECTIONS **7**

- 0** = No fittings
- 1** = BSPP (G) female threaded (ISO 228)
- 2** = NPT female threaded
- 4** = ANSI-150 RF Flanged
- 6** = PN16 DIN Flanged

CABLE ENTRIES **8**

- 1** = M20 x 1.5 mm
- 2** = 1/2 in. NPT

OM SERIES LARGE CAPACITY (OVAL GEAR METERS)

The **FLOME[®] OM Large Capacity Oval Gear Meters** have fitting sizes of 3 inches and 4 inches, and handle volumetric flow measurement of clean liquids used in a wide range of applications.

FEATURES / BENEFITS

- High accuracy and repeatability, direct volumetric reading
- Measures high and low viscosity liquids
- Quadrature pulse output option and bi-directional flow
- Optional Exd I/IIB approval (ATEX, IECEx)
- No requirement for flow conditioning (straight pipe runs)
- Only two moving parts

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 (aluminum & stainless meters) [IECEx & ATEX approved]
- E2** = Explosion proof Exd I/IIB T3...T6 (stainless meters only) [IECEx & ATEX mines approved]
- QP** = Quadrature pulse (2 NPN phased outputs)
- QPN** = Quadrature pulse (2 NPN phased outputs) with Australian NMI & NZ approval for trade sale
- Q1** = Explosion proof Exd (with quadrature pulse) [IECEx & ATEX approved]
- Q1N** = Explosion proof Exd (IECEx & ATEX) with Quadrature pulse with Australian NMI & NZ approval for trade sale
- R3** = Intrinsically safe RT12 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 rate totalizer with backlit large digit LCD [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)*#
- R5G** = RT14 backlit rate totalizer with all outputs (GRN Housing) (with gallons calibration)*#
- F18** = F018 backlit rate/tot. pulse out, 4-20mA, 10 pt lin, HART#
- F19** = F018 Intrinsic Safe, backlit rate/tot. pulse out, 4-20mA, 10 pt lin, HART [IECEx & ATEX approved]#
- F31** = Intrinsically safe F130 2 stage batch controller [IECEx & ATEX approved]#

--->>>> **1** **2** **3** **4** **5** **6** **7** **8** **9**
OM 025 A 51 2 -5 2 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)

SPECIFICATIONS

| | OM080 | OM080E | OM100 | OM100E |
|----------------------------------|---|------------------|------------------|-------------------|
| Nominal Size: | 3" (80 mm) | 3" (80 mm) | 4" (100 mm) | 4" (100 mm) |
| Nominal Flow* Range @ 3cP: | 10-200 GPM | 13-260 GPM | 20-400 GPM | 40-600 GPM |
| | 35-750 L/min | 50-1000 L/min | 75-1500 L/min | 150-2500 L/min |
| Accuracy: | ±0.5% of reading (±0.2% of reading with optional RT14) | | | |
| Repeatability: | Typically ± 0.03% of reading | | | |
| Temperature Range: | -40°F - +300°F (-40°C - +150°C) | | | |
| Max. Pressure (Aluminum): | 175 psi (12 bar) | 175 psi (12 bar) | 145 psi (10 bar) | 145 psi (10 bar) |
| Max. Pressure (Stainless Steel): | 175 psi (12 bar) | n/a | n/a | n/a |
| Protection Class: | IP66/67 (NEMA 4X) Optional Exd I/IB T3...T6, integral ancillaries can be supplied I.S. (Intrinsically Safe) | | | |
| Recommended Filtration: | 40 Mesh (400 µm) | | | |

DIMENSIONS

All dimensions are ± .079" (±2 mm)

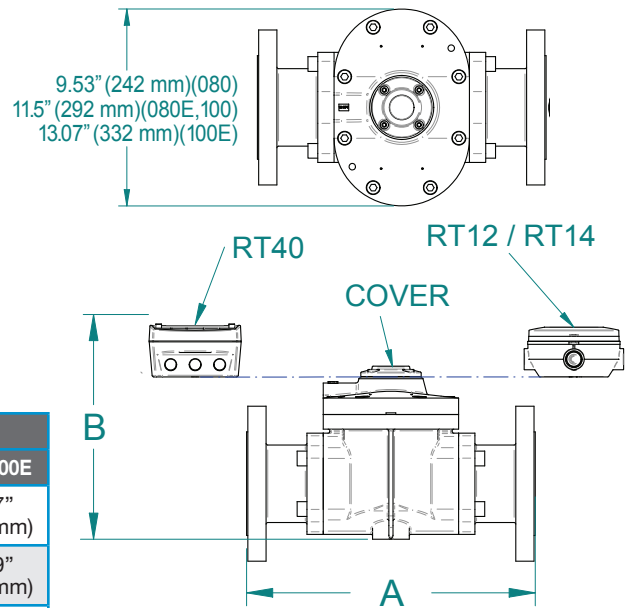
| MODULAR FITTING | A | | | |
|-----------------|----------------|----------------|----------------|----------------|
| | OM080 | OM080E | OM100 | OM100E |
| Flanged | 13.9" (354 mm) | 15.0" (382 mm) | 15.3" (388 mm) | 16.3" (414 mm) |
| Threaded | 10.5" (266 mm) | 11.6" (294 mm) | 11.6" (294 mm) | 12.6" (320 mm) |

| CONFIGURATION | B | | | | |
|-------------------------|----------------|----------------|----------------|----------------|----------------|
| | OM080A | OM080S | OM080E | OM100 | OM100E |
| RT12 / RT14 GRN HOUSING | 10.2" (260 mm) | 10.1" (257 mm) | 10.9" (277 mm) | 12.7" (322 mm) | 15.7" (399 mm) |
| RT40 | 10.3" (264 mm) | 10.2" (260 mm) | 11.0" (281 mm) | 12.8" (326 mm) | 15.9" (403 mm) |
| COVER | 8.4" (213 mm) | 8.1" (206 mm) | 9.0" (229 mm) | 10.7" (274 mm) | 13.9" (352 mm) |

| | OM080 | OM080E | OM100 | OM100E |
|--|-------|--------|-------|--------|
|--|-------|--------|-------|--------|

| | | | | |
|----------------------------|---|-------------|-------------|-------------|
| Electrical: | | | | |
| Output Pulse Resolution: | Pulses / gallon (Pulses / L) - Nominal | | | |
| Reed Switch: | 10.0 (2.65) | 5.68 (1.55) | 4.15 (1.10) | 2.1 (0.56) |
| Hall Effect: | 40.5 (10.7) | 22.7 (6.00) | 16.6 (4.40) | 8.5 (2.24) |
| QP Quadrature Hall Effect: | 20.0 (5.33) | 11.4 (3.00) | 8.3 (2.20) | 4.24 (1.12) |
| Read Switch Output: | 30V (dc) x 200 mA max. (maximum thermal shock 18° F [10° C] / minute) | | | |
| Hall Effect Output: | 3 wire open collector. 5-24V (dc) max., 20 mA max. | | | |
| Optional Outputs: | 4-20 mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control | | | |

*Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max recommended pressure drop is 14.5 psi (1 bar).



APPLICATIONS

- Oils
- Fuel
- Diesel
- Truck Metering
- Bunker C Fuel Oil
- Chemical Additive Injection
- Batching
- Molasses
- Clean Fluids
- Oil-Based Paints
- Industrial Fluids
- Chemical Feed Lines

APPROVALS



NEMA 4X

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Outside North or South America: +61 2 9540 4433 / FLOMEC.net