



OM SERIES SMALL CAPACITY (OVAL GEAR FLOWMETERS)

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 CONFIGURATION

1 PRODUCT IDENTIFIER:

OM = Oval Gear Meter

2 METER SIZE:

004 = 1/8 inch (4 mm), 0.26-9.5 GPH (1.0-36 L/hr)
006 = 1/4 inch (6 mm), 0.5-27 GPH (2-100 L/hr)
008 = 3/8 inch (8 mm), 4-145 GPH (15-550 L/hr)

3 BODY MATERIAL:

A = Aluminum
S = 316 Stainless Steel
N = Intermediate Pressure 316L SS (1450 PSI / 100 bar)

4 ROTOR MATERIAL / BEARING TYPE:

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)

5 O-RING MATERIAL:

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)

6 MAXIMUM TEMPERATURE LIMIT:

-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)

7 PROCESS CONNECTIONS:

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

8 CABLE ENTRIES:

1 = M20 x 1.5 mm (M16 x 1.5 mm for R4 options)
2 = 1/2 inch NPT
6 = 3 x 16 mm drilled holes (for R7/F15/F18/F19/F31)

9 INTEGRAL OPTIONS:

___ = 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]
FP = cFMus Approved, USA and Canada, Flameproof Class 1 Zone 1
QP = Quadrature pulse (2 NPN phased outputs) Recommended remote display: F115... (part # 1431135)
Q1 = Combination of the E1 & QP Integral Options
HR = High Resolution Hall Effect output (004 – 006 only)
H1 = Combination of the E1 & HR Integral Options
R4 = RT40 backlit rate totaliser in Aluminum housing, requires Cable Entry option 1*#
R5 = RT14 backlit rate totalizer with all outputs (GRN Housing)*#
R6 = RT14 IECEx/ATEX Intrinsically Safe rate totaliser with 4-20mA and pulse outputs, in GRN housing*#
R7 = RT40 backlit rate totaliser in GRN housing*#^
B11 = EB11 dual stage batch controller in GRN housing*#
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]#
F15 = F115 bi-directional flow rate/totaliser, 4-20mA and pulse outputs, in a GRN housing*#^
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]

10 DISPLAY CALIBRATION:

___ = Displays in Litres (DEFAULT)
G = Displays in US Gallons

1 2 3 4 5 6 7 8 9 10
 --->>>> OM 006 A 51 1 -8 2 2 R5 G

*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)
 ^Requires Cable Entry option 6

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)	7950 (2100)	1345 (355)
Hall Effect	21200 (5600)	7950 (2100)	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		

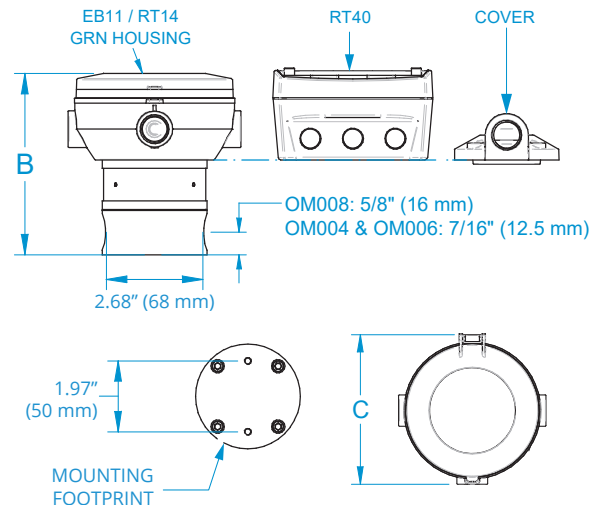
*Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max recommended pressure drop is 14.5 psi (1 bar).

*When used to meter rate, at very low flow rates, the rate can jump, due to resolution (not accuracy).

DIMENSIONS

	B			C
OPTION	OM004	OM006	OM008	—
EB11 / 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



NEMA
4X

IP66/67



Class 1, Zone 1, AEx db 11B T4 Gb Ta=-40°C to +120°C
Ex db 11B T4 Gb Ta=-40°C to +120°C

STAINLESS STEEL MODELS ONLY

ATEX 1 M2
Ex db 1Mb

OR

ATEX 11 2 G
Ex db 11B T6...T3 Gb



Ex db 1 Mb
Ex db 11B T6.....T3 Gb

Refer to Specific Conditions for Process and Ambient Temperature

GREAT PLAINS INDUSTRIES



North or South America: GreatPlainsIndustries.com | Product Support: 800-835-0113 | Support-Meters@gplains.com
Outside North or South America: FLOMEC.com.au | Product Support: +61 2 9540 4433 | info@flomec.com.au

IND-1143-OM-SMALL CAPACITY METER REV B-EN 11/23



OM SERIES MEDIUM CAPACITY (OVAL GEAR FLOWMETERS)

The **FLOMEC® OM Medium Capacity Oval Gear 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/IB approval (ATEX, IECEx)
- No requirement for flow conditioning (straight pipe runs)
- Only two moving parts

PRODUCT CONFIGURATION

1 PRODUCT IDENTIFIER:

OM = Oval Gear Meter

2 METER SIZE:

015 = 1/2 inch (15 mm), 0.26-10.6 GPM (1-40 L/min)
025 = 1 inch (25 mm), 2.6-40 GPM (10-150 L/min)
040 = 1-1/2 inch (40 mm), 4-66 GPM (15-250 L/min)
050 = 2 inch (50 mm), 8-118 GPM (30-450 L/min) with SS Rotors
050 = 2 inch (50 mm), 8-130 GPM (30-500 L/min) with PPS Rotors

3 BODY MATERIAL:

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)

4 ROTOR MATERIAL / BEARING TYPE:

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

5 O-RING MATERIAL:

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)

6 MAXIMUM TEMPERATURE LIMIT:

-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)

7 PROCESS CONNECTIONS:

0 = No fittings (Not available on 015 size)
1 = BSPP (G) female threaded (ISO 228)
2 = NPT female threaded
3 = Sanitary Fittings (1/2 inch larger than meter size)
4 = ANSI-150 RF Flanged
5 = ANSI-300 RF Flanged
6 = PN16 DIN Flanged

8 CABLE ENTRIES:

1 = M20 x 1.5 mm (M16 x 1.5 mm for R4 options)
2 = 1/2 inch NPT
6 = 3 x 16 mm drilled holes (for R7/F15/F18/F19/F31)

9 INTEGRAL OPTIONS:

__ = 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]
FP = cFMus Approved, USA and Canada, Flameproof Class 1 Zone 1
QP = Quadrature pulse (2 NPN phased outputs) Recommended remote display: F115... (part # 1431135)
QPN = Quadrature pulse (2 NPN phased outputs) with Australian NMI & NZ approval for trade sale (1, 1.5, and 2 inch only)
Q1 = Combination of the E1 & QP Integral Options
Q1N = Explosion Proof Exd (IECEx & ATEX) with Quadrature pulse with Australian NMI & NZ approval for trade sale (1, 1.5, and 2 inch only)
R4 = RT40 backlit rate totaliser in Aluminum housing, requires Cable Entry option 1*#
R5 = RT14 backlit rate totalizer with all outputs (GRN Housing)*#
R6 = RT14 IECEx/ATEX Intrinsically Safe rate totaliser with 4-20mA and pulse outputs, in GRN housing*#
R7 = RT40 backlit rate totaliser in GRN housing*#^
B11 = EB11 dual stage batch controller in GRN housing*#
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]#
F15 = F115 bi-directional flow rate/totaliser, 4-20mA and pulse outputs, in a GRN housing
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]

10 DISPLAY CALIBRATION:

__ = Displays in Litres (DEFAULT)
G = Displays in US Gallons

*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)

^Requires Cable Entry option 6



1 2 3 4 5 6 7 8 9 10
 --->>>> OM 025 A 51 2 -5 2 1 R4 G

SPECIFICATIONS

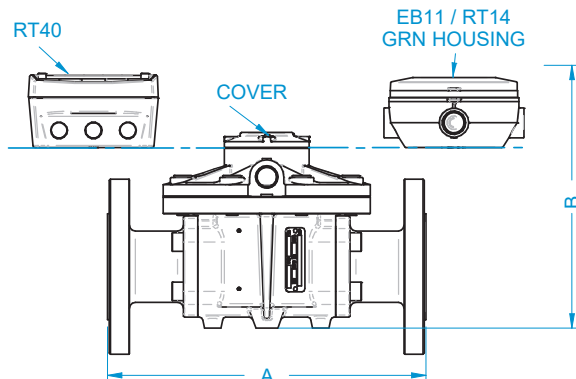
	OM015	OM025	OM040	OM050
Nominal Size:	1/2 in. (15 mm)	1 in. (25 mm)	1 1/2 in. (40 mm)	2 in. (50 mm)
*Flow Range:	0.26-10.6 GPM (1-40 L/min)	2.6-40 GPM (10-150 L/min)	4-66 GPM (15-250 L/min)	8-120 GPM (30-450 L/min) (SS) 8-130 GPM (30-500 L/min) (PPS)
Accuracy @3cp:	± 0.5% of reading (accuracy is ± 0.2% 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)
Recommend- ed Filtration	100 mesh (150 µm)			

DIMENSIONS

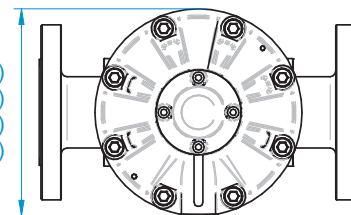
All dimensions are ± .079 (±2 mm)

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

Configuration	B						
	OM015A	OM015S/N	OM025A	OM025S/N	OM040A	OM040S/N	OM050
EB11 / RT14 GRN Housing	6.0 in. (154 mm)	5.8 in. (148 mm)	6.6 in. (168 mm)	6.5 in. (165 mm)	7.9 in. (203 mm)	7.6 in. (194 mm)	8.6 in. (218 mm)
RT40 Alloy Housing	6.2 in. (157 mm)	5.9 in. (151 mm)	6.7 in. (171 mm)	6.6 in. (168 mm)	8.1 in. (206 mm)	7.8 in. (197 mm)	8.7 in. (221 mm)
Cover	4.2 in. (106 mm)	3.9 in. (100 mm)	4.7 in. (123 mm)	4.6 in. (117 mm)	6.1 in. (155 mm)	5.7 in. (146 mm)	6.7 in. (170 mm)



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



	OM015	OM025	OM040	OM050
Electrical:				
Output Pulse Resolution:	Pulses / gallon (Pulses / L) - Nominal			
Reed Switch	318 (84)	102 (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).

APPROVALS



NEMA
4X

IP66/67

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

Wichita · Sydney

GREAT PLAINS INDUSTRIES



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



PRODUCT CONFIGURATION

OM SERIES LARGE CAPACITY (OVAL GEAR METERS)

The **FLOMEC® 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/IB approval (ATEX, IECEx)
- No requirement for flow conditioning (straight pipe runs)
- Only two moving parts

1 PRODUCT IDENTIFIER

OM = Oval Gear Meter

2 METER SIZE

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)

3 BODY MATERIAL

A = Aluminum

E = Extended flow Aluminum version

S = 316L Stainless Steel (OM080 only)

4 ROTOR MATERIAL / BEARING TYPE

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)

5 O-RING MATERIAL

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)

6 MAXIMUM TEMPERATURE LIMIT

-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)

7 PROCESS CONNECTIONS

0 = No fittings

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

2 = NPT female threaded

4 = ANSI-150 RF Flanged

6 = PN16 DIN Flanged

8 CABLE ENTRIES

1 = M20 x 1.5 mm

2 = 1/2 in. NPT

6 = 3 x 16 mm drilled holes (for R7/F15/F18/F19/F31)

9 INTEGRAL OPTIONS

___ = 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/IB T3...T6 (stainless meters only) [IECEx & ATEX mines approved]

FP = cFMus Approved, USA and Canada, Flameproof Class 1 Zone 1

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

R4 = RT40 rate totalizer with backlit large digit LCD [scalable pulse output, backlight]*#

R5 = RT14 backlit rate totalizer with all outputs (GRN Housing)*#

R6 = RT14 IECEx/ATEX Intrinsically Safe rate totaliser with 4-20mA and pulse outputs, in GRN housing*#

R7 = RT40 backlit rate totaliser in GRN housing*#^

B11 = EB11 dual stage batch controller in GRN housing*#

F15 = F115 bi-directional flow rate/totaliser, 4-20mA and pulse outputs, in a GRN housing*#^

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 [IECEx & ATEX approved]*#^

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

10 DISPLAY CALIBRATION:

___ = Displays in Litres (DEFAULT)

G = Displays in US Gallons

*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)

^Requires Cable Entry option 6

---->>>> **1** **2** **3** **4** **5** **6** **7** **8** **9** **10**
OM 080 A 51 1 -3 2 2 R5 G

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)			

	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			

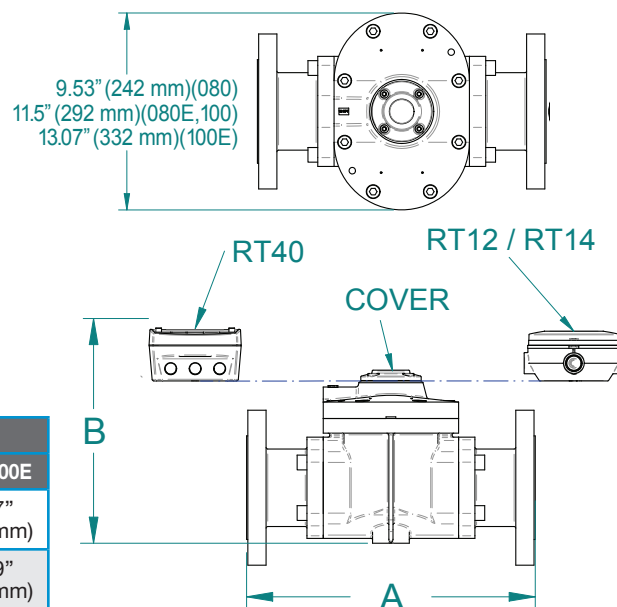
*Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max recommended pressure drop is 14.5 psi (1 bar).

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)



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



IP66/67

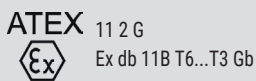


Class 1, Zone 1, AEx db 11B T4 Gb Ta=-40°C to +120°C
Ex db 11B T4 Gb Ta=-40°C to +120°C

STAINLESS STEEL MODELS ONLY



OR



Ex db 1 Mb
Ex db 11B T6.....T3 Gb

Refer to Specific Conditions for Process and Ambient Temperature

GREAT PLAINS INDUSTRIES



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