



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 RFFlanged
- 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 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 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 fascia) (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)