



OM SERIES OVAL GEAR METERS

OM Series Oval Gear Meters are designed for low flow and high accuracy. OM Series Meters are great for viscous fluids. Units are available with pulse output from either a Reed Switch or Hall Effect Sensor. Electronics choices for the OM Series Meters are covered in the Electronic Choices Section.

1) Select Your OM Meter

OM Meters come in a variety of sizes and materials.



Pulse Meter



Mechanical Meter



2) Select Your Sensor

Reed Switch

Hall Effect

Requires Dedicated Power Source

Combo
Reed Switch / Hall Effect
(Standard)

Quadrature Pulse

Bi-directional Flow



3) Select Your Electronics Choice

For further details and selections see the Electronics Section.



RT12



EB10



RT40



E018 / E110



F018



GA

4-20 mA Output Without Display
(Remote)



GG

Display With Pulse Output
(Remote)



GX

Display 4-20 mA Output
(Remote)



Pulse Output



4) Need a Strainer?

Oval Gear Meters work best with clean fluid, free of debris.

GPI carries Y Strainers to fit all models of Oval Gear Meters. These strainers range from 1/4 in. to 2 in. models. All sizes are 316 Stainless Steel and come complete with blow-off and plug. See page 79 for strainer specifications.



METER NUMBER REFERENCE

OM SERIES

SIZE

OM004	= 1/8 in.	(4mm)	0.13-9.5 GPH	0.5-36 L/hr
OM006	= 1/4 in.	(6mm)	0.5-27 GPH	2-100 L/hr
OM008	= 3/8 in.	(8mm)	4-145 GPH	15-550 L/hr
OM008	= 1/4 in. high pressure	(6 mm)	4-145 GPH	15-550 L/hr
OM015	= 1/2 in.	(15mm)	0.26-10.6 GPM	1-40 L/min
OM025	= 1 in.	(25mm)	2.6-40 GPM	10-150 L/min
OM040	= 1-1/2 in.	(40mm)	4-66 GPM	15-250 L/min
OM050	= 2 in.	(50mm)	8-120 GPM	30-450 L/min
OM080	= 3 in.	(80mm)	10-200 GPM	35-750 L/min
OM080E	= 3 in.	(80mm)	13-260 GPM	50-1000 L/min
OM100	= 4 in.	(100mm)	20-400 GPM	75-1500 L/min

BODY MATERIAL

- A** = Aluminum
- E** = Extended flow aluminum version
- P** = PPS (73 PSI / 5 Bar)
- M** = Intermediate pressure aluminum meter (2000 PSI [138 Bar] max.) (OM025 only)
- S** = 316L Stainless Steel
- N** = Intermediate press. 316L SS meters (OM004N-025N = 1450 PSI [100 bar], OM040N-050N = 725 PSI [50 bar])
- H** = High Pressure 316SS (OM004H-040H = 5800 PSI [400 bar] max. OM050H = 4350 PSI [300 bar])

ROTOR MATERIAL

- 0** = PPS - PTFE filled (Polyphenylene Sulfide)
- 1** = Keishi cutting of PPS rotors (for high viscosity liquids)
- 5** = Stainless steel (standard on OM004 & OM006, optional on other sizes)
- 7** = Keishi cutting of stainless steel rotors (for high viscosity liquids)

BEARING TYPE

- 0** = No Bearing - PPS rotor option only
- 1** = Carbon Ceramic (standard with stainless steel rotors)

O-RING MATERIAL

- 1** = FKM (Viton™) (standard for Alum.) -5° F minimum (-15° C)
- 2** = EPR (Ethylene Propylene Rubber) - for ketones only
- 3** = PTFE encapsulated FKM (Viton™) - (standard for SS)
- 4** = Buna-N (Nitrile), -40° F minimum (-40° C)

MAXIMUM TEMPERATURE LIMIT

- 2** = 250° F (120° C) max. (reduced to 80° C when fitted with integral instruments)
- 3** = 300° F (150° C) max. (Hall Effect output only, not available with HP meters)
- 5** = 250° F (120° C) max. (includes integral cooling fin)
- 8** = 176° F (80° C) max. (applies to Mech. Reg., OM025P & OM008 with PPS rotors)

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PROCESS CONNECTIONS

- 1 = BSPP (G) female threaded
- 2 = NPT female threaded
- 3 = Sanitary Fittings (Sanitary Fittings are 1/2" larger than the meter size)
- 4 = ANSI-150 RF flanged
- 5 = ANSI-300 RF flanged
- 6 = PN16 DIN flanged

CABLE ENTRIES

- 0 = 3-6mm cable gland or no cable entry [Exclusive to B2 & B3 options (OM004 to OM008 and mechanical display models only)]
- 1 = M20 x 1.5 mm
- 2 = 1/2" NPT (OM004-OM008) 1/2" NPT Adaptor used for other sizes

INTEGRAL OPTIONS

- ___ = Combination Reed Switch and Hall Effect Sensor
- G5 = [GG 500] Rate / Total Display with pulse out and optional Ex. Power [Local Display w/ Pulse (60°C)]
- G6 = [GX 500] Rate / Total Display w/ 4-20mA out [Local Display w/ 4-20mA (60°C)]
- G7 = [GA 500] Loop powered 4-20mA analog output [Local 4-20mA (60°C)]
- RS = Reed Switch only - to suit Intrinsically safe installations
- E1 = Explosionproof Exd IIB T4/T6 (aluminum & stainless meters) [IECEX & ATEX approved] [120° C]
- E2 = Explosionproof Exd I/IIB T4/T6 (stainless meters only) [IECEX & ATEX mines approved] [120° C]
- QP = Quadrature pulse (2 NPN phased outputs) [not available with high press models]
- Q1 = Explosionproof Exd (with quadrature pulse, but not available with high pressure meter) [IECEX & ATEX approved]
- HR = High resolution Hall effect output (Hall Effect only) [OM004:11200ppL, OM006:4200ppL]
- H1 = Explosionproof - Exd with HR Hi-res. Hall option [IECEX & ATEX approved]
- PF = Pulsating flow option (Hall effect output only) [for injected combustion engines]
- P1 = Explosionproof - Exd with PF pulsating flow option [IECEX & ATEX approved]
- B2 = BT11 totaliser with pulse output [with scaleable pulse output]
- B3 = Intrinsically safe BT11 with pulse output [IECEX & ATEX approved]
- R0 = RT12 rate totaliser with all outputs (Alloy housing) [scaled pulse, alarms, 4-20mA]
- R2 = RT12 rate totaliser with all outputs (GRN housing) [scaled pulse, alarms, 4-20mA]
- R3 = Intrinsically safe RT12 with all outputs (GRN housing) [IECEX & ATEX approved]
- R4 = RT40 rate totaliser with backlit large digit LCD [scaleable pulse output, backlight]
- E0 = EB10 batch controller [2 stage DC batcher & totaliser]
- M3 = 4-digit Mechanical Totalizer - litres [Resolution depends on size]
- M4 = 4-digit Mechanical Totalizer - gallon [Resolution depends on size] [Consult Factory for Availability with High Pressure Meters]