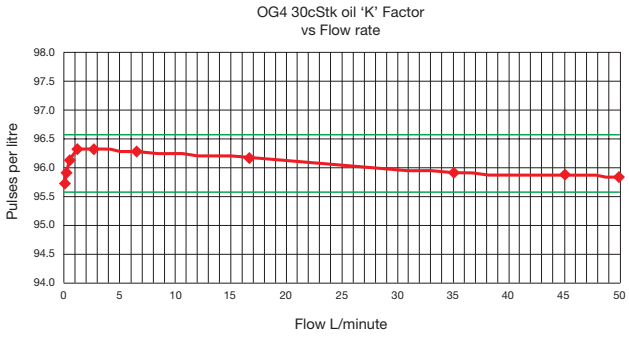
OVAL GEARS FLOWMETERS 50 l/min Serie OG4

The compact rugged OG4 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.25 to 50 L/min on 30 cSt oil and 2.5 to 50 L/min on water like liquids. It can have totally non-metallic wetted components, PEEK™, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are ¾" female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal.

At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets, the gears rotate freely on robust bearings. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 115 pulses per litre passed. The output is an NPN pulse or a voltage free contact closure either of which is readily interfaced with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable, accurate operation throughout.

IDEAL FOR

- Engine test
- Oil flow
- High viscosity fluids
- OEM equipment
- Hazardous areas



FEATURES

- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall, reed switch or Namur sensor
- Accuracy 1.0% reading water
  0.5% reading oil (30 cSt)
- ±0.50% reading *
- 0.1% repeatability
- IP67/NEMA 4 protection
- Models to 700 Bar
- Non-metallic option

** When used with our metra-smart instrument*

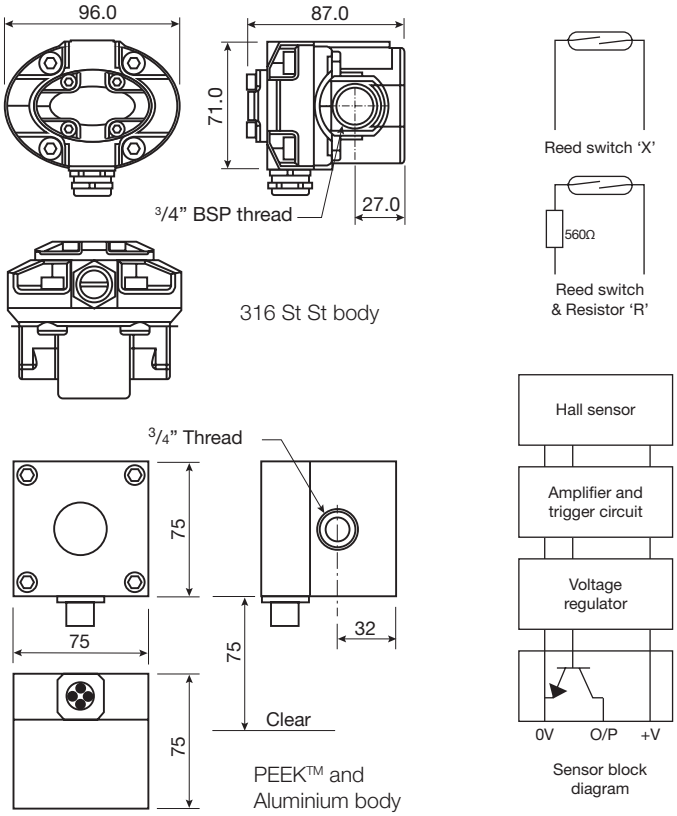
Ordering codes

Model
OG4
Body material
S = 316 St St 50 Bar std
A = Aluminium 10 Bar max
P = PEEK™ 10 Bar max
H = Hastelloy C
Temp rating
S = 80°C / 158°F
T = 100°C / 212°F
U = 150°C / 300°F
Pressure rating
5 = 50 Bar 750 PSI (St St)
1 = 10 Bar 150 PSI (Al / PEEK™)
4 = 400 Bar 5880 PSI (St St)
7 = 700 Bar 10150 PSI (St St)
Seal Material
V = Viton®
N = Nitrile
E = EPDM
P = PTFE (50 Bar max)
K = Kalrez
Detector Type
H = Hall effect
R = Reed switch & Resistor
N = Namur
X = Reed switch (Hazardous area)
Pipe Thread
T = 3/4" (OG4 std)
Connections
B = BSP F
N = NPT F
F = Flanged (specify)

e.g. **OG4-SS5-VHT-B** is a stainless steel meter rated at 80°C, 50 Bar, Viton™ seal, Hall effect detector and a 3/4" BSP thread.

TECHNICAL SPECIFICATIONS

Sample product codes ➡	Stainless standard OG4-SS5-VHT-B	Aluminium standard OG4-AS1-VHT-B	PEEK™ standard OG4-PS1-VHT-B
Flow range – Water – 30 cSt Oil	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min
Wetted matls– Body – Gears – Seal – Magnet	316 St St Carbon filled PEEK™ Viton™ Ceramic	Aluminium Carbon filled PEEK™ Viton™ Ceramic	PEEK™ Carbon filled PEEK™ Viton™ Ceramic
Accuracy – Water – 30 cSt oil	± 1.0% Reading ± 0.5% Reading	± 1.0% Reading ± 0.5% Reading	± 0.5% FSD ± 0.5% FSD
Repeatability	± 0.1%	± 0.1%	± 0.1%
Detector Type	Hall effect	Hall effect	Hall effect
Terminations	Via M20 cable gland	MIL style instrument socket	4 PIN M12 connector
Approx 'K' factor – Pulses/Litre	 115	 115	 115



Weight (kg)		
St St	50 Bar	1.600
PEEK™	10 Bar	0.550
Aluminium	10 Bar	1.000
St St	400 Bar	7.550