

## 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
- Oval gear flow meter
- Minimum flow rate (30 cSt oil) 0.03 L/min
- Minimum flow rate (water-like substances) of 0.15 L/min
- Maximum flow rate of 4 L/min
- Quarter-inch BSP connection
- Made of stainless steel

## RS PRO Oval Gear Flow Meter, 0.01 L/min → 4 L/min

RS Stock No.: 447-4449



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

This RS PRO compact oval gear flow meter measures viscous fluids such as oils and fuels, providing low pressure loss and excellent chemical resistance. Its rugged construction assures reliable operation and a long service life.

The meter fits on a quarter-inch British Standard Pipe (BSP) thread and its standard flow ranges from 0.03 L/min to 4 L/min on 30 cSt oil and 0.15 L/min to 4 L/min on water-like substances. It contains a pair of oval gears that are pushed around by the fluid. Magnets transmit their rotations via a Hall-effect sensor, giving around 1,100 pulses per litre passed.

## General Specifications

<b>Device Type</b>	Oval Gear
<b>Media Monitored</b>	Liquid
<b>Minimum Flow Rate</b>	0.01L/min
<b>Maximum Flow Rate</b>	4L/min
<b>Maximum Pressure</b>	50bar
<b>Material</b>	Stainless Steel
<b>Standard Accuracy</b>	1.0% FSD water, 0.75% FSD oil
<b>Repeatability</b>	0.1%
<b>For Use With</b>	Oil & water
<b>Applications</b>	Enginetest, Oilflow, High viscosityfluids, OEM equipment, Hazardous areas

## Electrical Specifications

<b>Supply Voltage</b>	5VDC to 24VDC
<b>Output</b>	NPN pulse

**Mechanical Specifications**

<b>Connection Type</b>	1/4 BSP
<b>Pipe Diameter Range</b>	1/4 in
<b>Wetted Materials</b>	316 Stainless steel (Body), Carbon filled PEEK (Gears), Viton (Seal), Ceramic (Magnet)

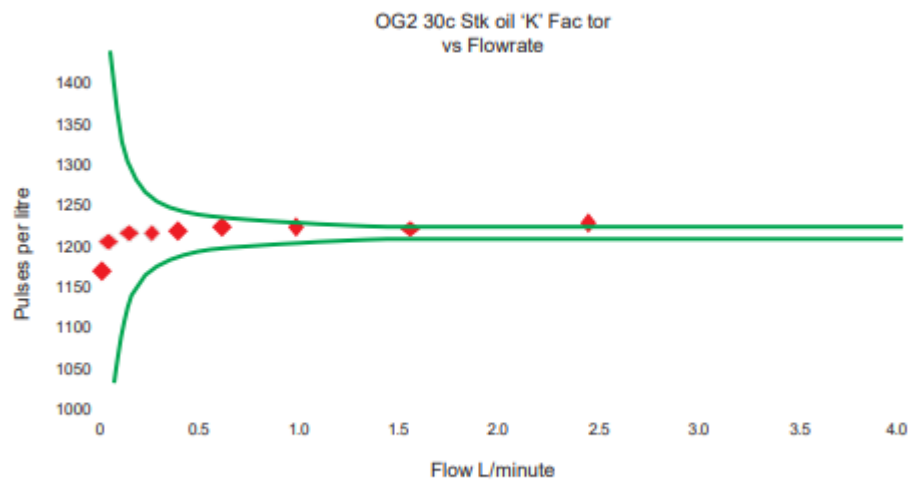
**Operation Environment Specifications**

<b>Maximum Operating Temperature</b>	+80°C
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**Protection Category**

<b>IP Rating</b>	IP67/NEMA 4 protection
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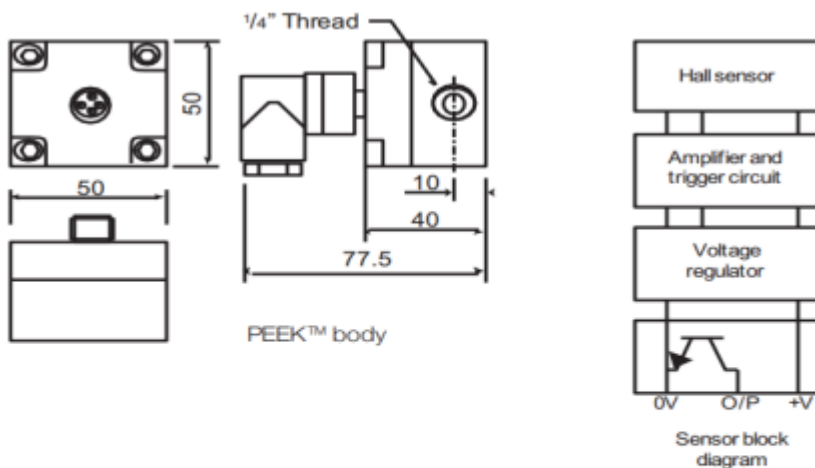
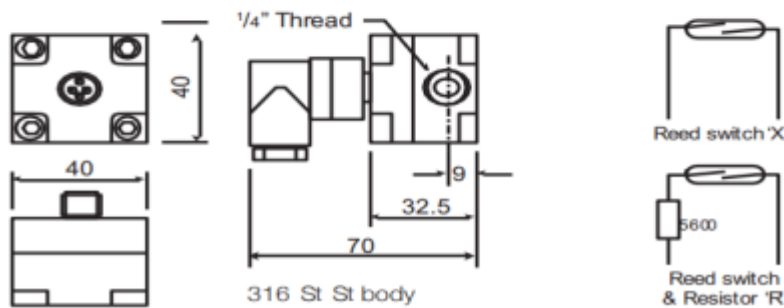






**TECHNICAL SPECIFICATIONS**

Sample product codes **		Stainless standard OG2-SSS-SSQ-B
Flow range	-Water	0.15 – 4.0 L/min
	- 30 cSt Oil	0.03 – 4.0 L/min
Wetted parts	- Body	316 St St
	- Gears	Carbon filled PEEK™
	- Seal	Viton™
	-Magnet	Ceramic
Accuracy	-Water	± 1.0% Reading
	- 30 cSt oil	± 0.75% Reading
Repeatability		± 0.1%
Detector Type		Hall effect
Terminations		M12 instrument socket
Approx 'K' factor	- Pulses/Litre	1100



Weight(kg)		
St St	50 Bar	0.36
PEEK™	10 Bar	0.184
St St	400 Bar	3000

## Ordering codes

<b>Model</b>	OG2
<b>Body material</b>	S = 316 St St 50 bar std P = PEEKTM 10 Bar max H = Hastelloy C
<b>Temprating</b>	S = 80°C/ 158°F T= 100°C / 212°F U= 150°C /300°F
<b>Pressure rating</b>	S/5 = 50 Bar 750 PSI (St St) 1 = 10 Bar 150 PSI (Al/PEEKTM) 4 = 400 Bar 5880 PSI (St St) 7 = 700 Bar 10150 PSI (St St)
<b>SealMaterial</b>	S/V = Viton® N = Nitrile E = EPDM P = PTFE (50 Bar max) K = Kalrez
<b>DetectorType</b>	S/H = Hall effect R = Reed switch & Resistor N = Namur X = Reed switch (Hazardous area)
<b>Pipe Thread</b>	Q = 1/4" (OG2std)
<b>Connections</b>	B = BSPF N = NPTF F = Flanged (specify)

Pin Number	Signification	Wire Cable Colour
1	V+ (+4.5-24Vcc)	Brown
2	Not Used	White
3	GND (0V)	Blue
4	Output	Black



This product is necessary to wire a 10k pull-up resistor between pins 1 and 4 which is supplied with the product.