The compact rugged OG3 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.05 to 10 L/Min on 30 cSt oil and 0.5 to 10 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 ½” 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. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 440 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.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Sample product codes</th>
<th>Stainless standard OG3-SS5-VHH-B</th>
<th>Aluminium standard OG3-AS1-VHH-B</th>
<th>PEEK standard OG3-PS1-VHH-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow range</td>
<td>0.5 - 10 L/min</td>
<td>0.5 - 10 L/min</td>
<td>0.5 - 10 L/min</td>
</tr>
<tr>
<td>Wetted mats ~ Body</td>
<td>0.05 - 10 L/min</td>
<td>0.05 - 10 L/min</td>
<td>0.05 - 10 L/min</td>
</tr>
<tr>
<td>~ Gears</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>~ Seal</td>
<td>316 St St Carbon filled</td>
<td>Aluminium Carbon filled</td>
<td>PEEK Carbon filled</td>
</tr>
<tr>
<td>~ Magnet</td>
<td>PEEK Viton® Ceramic</td>
<td>PEEK Viton® Ceramic</td>
<td>PEEK Viton® Ceramic</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 0.5% FSD</td>
<td>± 0.5% FSD</td>
<td>± 0.5% FSD</td>
</tr>
<tr>
<td>~ Water</td>
<td>± 1.0% Reading</td>
<td>± 1.0% Reading</td>
<td>± 0.5% FSD</td>
</tr>
<tr>
<td>Wetted mats ~ Oil</td>
<td>± 0.5% FSD</td>
<td>± 1.0% Reading</td>
<td>± 0.5% FSD</td>
</tr>
<tr>
<td>~ 30 cSt oil</td>
<td>± 0.5% FSD</td>
<td>± 1.0% Reading</td>
<td>± 0.5% FSD</td>
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<tr>
<td>Accuracy</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
</tr>
<tr>
<td>Repeatability</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Detector Type</td>
<td>Hall effect</td>
<td>Hall effect</td>
<td>Hall effect</td>
</tr>
<tr>
<td>Terminations</td>
<td>Via M20 cable gland</td>
<td>MIL style instrument socket</td>
<td>4 Pin M12</td>
</tr>
<tr>
<td>Approx ‘K’ factor</td>
<td>440</td>
<td>440</td>
<td>440</td>
</tr>
<tr>
<td>– Pulses/Litre</td>
<td>440</td>
<td>440</td>
<td>440</td>
</tr>
</tbody>
</table>

### Ordering codes

- **Model**
  - OG3

- **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 6880 PSI (St St)
  - 7 = 700 Bar 10150 PSI (St St)

- **Seal Material**
  - V = Viton®
  - N = Nitrile
  - E = EPDM
  - P = PTFE (Max 50Bar)
  - K = Kalrez®

- **Detector Type**
  - H = Hall effect
  - R = Reed Switch & Resistor
  - N = Namur
  - X = Reed Switch (Hazardous area)

- **Pipe Thread**
  - H = ½” (OG3 std)

- **Connections**
  - B = BSP F
  - N = NPT F
  - F = Flanged (specify)

- **Weight (kg)**
  - St St 50 Bar: 1.350
  - PEEK 10 Bar: 0.230
  - Aluminium 10 Bar: 0.422
  - St St 400 Bar: 3.000
  - St St 700 Bar: 9.000

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*e.g. OG3-SS5-VHH-B* is a stainless steel meter rated at 80°C, 50 Bar, Viton® seal, Hall effect detector and a ½” BSP thread.

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