HIGH FLOW EGR POPPET VALVE
HIGH PERFORMANCE - COMPACT DESIGN

Advanced Mechatronics
Passive or smart actuation

The AVENTICS best in class high flow poppet EGR valve is a water cooled actuator with outstanding low leakage and low pressure drop. Available in pressure balanced or non-balanced configurations.

A wide range of Best in Class features
- Low leakage
- Low pressure drop
- Operating temperature range
- Response time
- Integrated linear actuator
- High pressure seal at closed position

Additional characteristics
- Available in pressure balanced or non-balanced configurations
- Water cooled
- Operating voltage: 12V or 24V
- On/Off or proportional controlled
- Multiple control signals and mounting configurations
- On board diagnostics
- E1 compliant

<table>
<thead>
<tr>
<th>Series</th>
<th>EGR poppet valve</th>
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</thead>
<tbody>
<tr>
<td>Bore sizes</td>
<td>25mm to 50mm</td>
</tr>
<tr>
<td>Temp. range, operational</td>
<td>-40°C to +150°C</td>
</tr>
<tr>
<td>Temperature range, storage</td>
<td>-55°C to +175°C</td>
</tr>
<tr>
<td>CAN ready</td>
<td>250kB, 500kB, 1MB</td>
</tr>
<tr>
<td>Pressure differential (closed)</td>
<td>3 bar</td>
</tr>
<tr>
<td>Vibration</td>
<td>to 29g(\text{rms})</td>
</tr>
<tr>
<td>Response times</td>
<td>(T_\text{m} &lt; 90\text{ms}) (T_\text{s} &lt; 120\text{ms})</td>
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</tbody>
</table>

- Integrated linear actuator
- Smart option: CAN (J1939), PWM, analog control
- Best in class performance
- Suitable for hot environments, including exhaust gas
- Industry best response times
- Hardware enabled sleep/wake modes

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