COLD EGR VALVE AND EGR BYPASS VALVE
HIGH PERFORMANCE - COMPACT DESIGN

Advanced Mechatronics
Active or passive radial actuation

The AVENTICS best in class cold EGR valve and EGR bypass valve features a weight optimized actuator for high torque applications in narrow spaces. It is suitable for highly corrosive environments.

A wide range of Best in Class features
- Compact, space-saving design
- Integrated radial actuator
- Low pressure drop
- Broad operating temperature range
- Response time

Additional characteristics
- Multiple control signals and mounting configurations
- BLDC or PMDC motor options
- Various connector options (integrated or flying lead)
- Non-contact position sensor option
- On board diagnostics option
- E1 compliant
- Robust sealing
- Leak proof IP69K

### Series Cold EGR valve

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Bore sizes</td>
<td>30mm to 60mm</td>
</tr>
<tr>
<td>Temp. range, operational</td>
<td>-40°C to +150°C</td>
</tr>
<tr>
<td>Temp. range, storage</td>
<td>-55°C to +175°C</td>
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<tr>
<td>CAN ready</td>
<td>250kB, 500kB, 1MB</td>
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<tr>
<td>Operational voltage</td>
<td>12V or 24V</td>
</tr>
<tr>
<td>Vibration</td>
<td>to 27grms</td>
</tr>
<tr>
<td>Response times</td>
<td>Tr &lt; 100ms, Ts &lt; 120ms</td>
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</table>

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