This smart actuator is specially designed to evolve in harsh environments, where humidity, dust, vibrations and extreme temperatures prevail. Compact, with OBD functions it makes a powerful fit for e.g. hydraulic valves or any application requiring something more than just a simple actuator.

**Main Features**

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct drive of the spool</td>
<td>No need of pilot circuit</td>
</tr>
<tr>
<td>Stall Detection</td>
<td>Detection of sticking effects / Valve failure</td>
</tr>
<tr>
<td>Dead-Zone Compensation</td>
<td>Compensation of mechanical play Compensation of wear during product lifetime Increased precision</td>
</tr>
<tr>
<td>Small Size</td>
<td>Better integration in the engine’s environment Easy integration for multi-valve assemblies</td>
</tr>
<tr>
<td>Communication Interface</td>
<td>CAN with ISO 11783 (J1939) protocol OBD functions (On Board Diagnostic)</td>
</tr>
<tr>
<td>Robust</td>
<td>Long lifetime in harsh environments</td>
</tr>
</tbody>
</table>

**Technical Specifications**

- **Force**: 240 [N] at 100 [mm/s]
- **Residual force**: <50 [N]
- **Stroke**: ± 18 [mm]
- **Resolution**: 0.01 [mm]
- **Operating temp.**: -40 … +100 [°C]
- **Supply voltage**: 20…28 [Vdc]
- **Protection degree**: IP 6k9k
- **Communication**: CAN (J1939)

*Preliminary specification, subject to change without notice*
**Smart Actuator 8566R1000-2/2**

### Force diagram

**Linear Force [N]**

- **Smart Actuator Force [N]**
- **Recommended max. Application Force (safety margin) [N]**

**Linear Speed [mm/s]**

### Overall dimension

Drawing not to scale. Right to change reserved.

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