PRESSURE REGULATOR
ED05 RAIL
DYNAMIC AND ROBUST

Pneumatics
It’s that easy
The direct electromagnetic actuation of the poppet valve, enables a very precise true proportional control with high flow rate
With the direct control principle the force moving the valve seat is applied directly by a proportional solenoid. This minimizes inertia and hysteresis in mechanical transfer elements, achieving much higher dynamics with lowest control deviations. The utterly robust poppet valve technology does not require any special air quality. The large cross-section and a soft-sealing proportional valve seat make the valve durable and resistant to contamination. The ED05 Rail combines dynamics, precision, and excellent repeatability with extreme robustness. This means that the valve is ideally suitable for many rail vehicle applications.

- Control of the direct and blended brake
- Secondary suspension control for easy boarding
- Variable pressure control of pantographs

ED05 Rail – Designed for harsh operating conditions
The intelligent pneumatics are integrated in sturdy components made of die-cast aluminum and special steel

<table>
<thead>
<tr>
<th>ED05 Rail</th>
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<tbody>
<tr>
<td>Pressure range</td>
<td>0...11 bar</td>
</tr>
<tr>
<td>Setup</td>
<td>Direct control</td>
</tr>
<tr>
<td>Output signal</td>
<td>4...20 mA or 0...10 V</td>
</tr>
<tr>
<td>Nominal flow</td>
<td>1200 l/min</td>
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<tr>
<td>Control</td>
<td>4...20 mA or 0...10 VDC</td>
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<tr>
<td>Hysteresis</td>
<td>&lt; 60 mbar</td>
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<tr>
<td>Repeatability</td>
<td>&lt; 50 mbar</td>
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<tr>
<td>Protection class</td>
<td>IP65</td>
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</tbody>
</table>

Railway-specific standards

EN 50155: Railway-specific requirements for electronic and mechanical components in rolling stock
EN 45545; NFPA 130: Fire protection requirements
EN 50121-3-2: Electromagnetic compatibility
EN 60068: Resistance to cold and heat
EN 61373: Special requirements for shock and vibration

Complies with all relevant railway standards
Operating temperature range -40 °C to 70 °C
High repeatability and small hysteresis
Robust and durable design
Integrated diagnostic function
Various of pressure ranges available