Injection Valve EV 14

EV 14 injection valves are the latest revision of the EV 6 injection valve technology.

EV 14 is designed for a wide range of flow rates and spray patterns. Compact size and three standard versions simplify mounting in a variety of applications.

### Application
- **Fuel input**: axial (top-feed)
- **Operating temperature**: -40 ... 110 °C
- **Permissible fuel temperatures**: ≤ 70 °C
- **Climate-proof corresponding to saline fog test**: DIN 50 021

### Mechanical Data
- **System pressure**: max. 8 bar
- **Weight**: ≤ 30 g
- **Installation lengths**: 33.6, 48.65 or 60.65 mm

### Electrical Data
- **Max. power supply**: 16 V

### Characteristic
- **Housing design**: compact, standard, long
- **Connectors**: Jetronic, Sumitomo and motorsport connectors
- **Spray type**: C (single beam) or E (twin beam)
- **Flow rate at 3 bar**
  - n-heptane: 146 up to 1,023 cm³/min
  - 100 up to 700 g/min
- **Spray angle α**: 15° ... 85°
- **Bent angle γ**: 0° ... 15°
- **Coil resistance**: 12 Ω

### Application Hint
Please ask for more information before ordering.

### Examples of Series Production

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Spray angle α</th>
<th>Bent angle γ</th>
<th>Coil resistance</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>L</td>
<td>15°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 110</td>
</tr>
<tr>
<td>116</td>
<td>S</td>
<td>15°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 200</td>
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<tr>
<td>150</td>
<td>L</td>
<td>20°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 107</td>
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<tr>
<td>150</td>
<td>S</td>
<td>19°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 013</td>
</tr>
<tr>
<td>237</td>
<td>KxT</td>
<td>20°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 038</td>
</tr>
<tr>
<td>237</td>
<td>L</td>
<td>22°</td>
<td>5°</td>
<td>12 Ω</td>
<td>0 280 158 116</td>
</tr>
<tr>
<td>372</td>
<td>SxT</td>
<td>25°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 123</td>
</tr>
<tr>
<td>670</td>
<td>KxT</td>
<td>30°</td>
<td>0°</td>
<td>12 Ω</td>
<td>0 280 158 040</td>
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</tbody>
</table>

More than 200 additional versions are available on request.
Examples for Motorsports

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Spray angle $\alpha$</th>
<th>Bent angle $\gamma$</th>
<th>Coil resistance</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>C</td>
<td>70°</td>
<td>0°</td>
<td>12 $\Omega$</td>
<td>B 280 436 038-09</td>
</tr>
<tr>
<td>S</td>
<td>C</td>
<td>25°</td>
<td>0°</td>
<td>12 $\Omega$</td>
<td>B 280 436 038-10</td>
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<tr>
<td>S</td>
<td>C</td>
<td>70°</td>
<td>0°</td>
<td>12 $\Omega$</td>
<td>B 280 436 038-07</td>
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<tr>
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<td>C</td>
<td>25°</td>
<td>0°</td>
<td>12 $\Omega$</td>
<td>B 280 436 038-08</td>
</tr>
<tr>
<td>S</td>
<td>E</td>
<td>20°</td>
<td>0°</td>
<td>12 $\Omega$</td>
<td>B 280 436 469-01</td>
</tr>
</tbody>
</table>

Further special motorsport versions are available on request.

Spray Illustration

C: Conical Spray

$\alpha_{80}=15^\circ$ (narrow)
$20^\circ$ (medium)
$25^\circ$ (wide)

Angle between connection and spray level ($\delta = \text{delta}$):
(only 2-spray preparation)
$\delta = 0^\circ - 360^\circ$ possible

E: 2-Spray

$\alpha_{50}=15^\circ$ (narrow)
$20^\circ$ (medium)
$25^\circ$ (wide)

EV 14 Types

EV 14 xT
with Extension

EV 14K
Compact

EV 14S
Standard

EV 14L
Long