

## 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	146 up to 1,023 cm <sup>3</sup> /min
Flow rate at 3 bar	100 up to 700 g/min (n-heptane)
Spray angle $\alpha$	15° ... 85°
Bent angle $\gamma$	0° ... 15°
Coil resistance	12 $\Omega$

Application Hint	
Please ask for more information before ordering.	

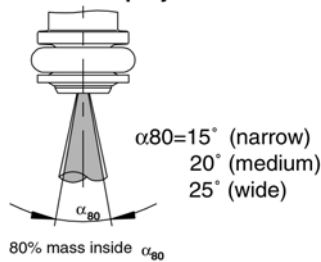
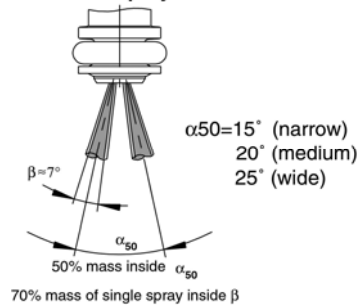
Examples of Series Production							
Flow rate at 3 bar (n-heptane) [g/min]	Flow rate at 3 bar [cm <sup>3</sup> /min]	Design	Type	Spray angle $\alpha$	Bent angle $\gamma$	Coil resistance	Part number
116	170	L	C	15°	0°	12 $\Omega$	<b>0 280 158 110</b>
116	170	S	E	15°	0°	12 $\Omega$	<b>0 280 158 200</b>
150	219	L	C	20°	0°	12 $\Omega$	<b>0 280 158 107</b>
150	219	S	E	19°	0°	12 $\Omega$	<b>0 280 158 013</b>
237	347	KxT	C	20°	0°	12 $\Omega$	<b>0 280 158 038</b>
237	347	L	E	22°	5°	12 $\Omega$	<b>0 280 158 116</b>
372	543	SxT	E	25°	0°	12 $\Omega$	<b>0 280 158 123</b>
670	980	KxT	C	30°	0°	12 $\Omega$	<b>0 280 158 040</b>

More than 200 additional versions are available on request.

**Examples for Motorsports**

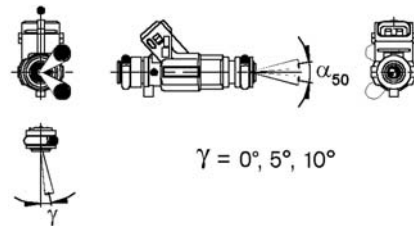
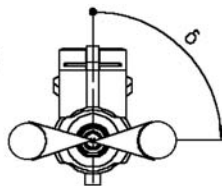
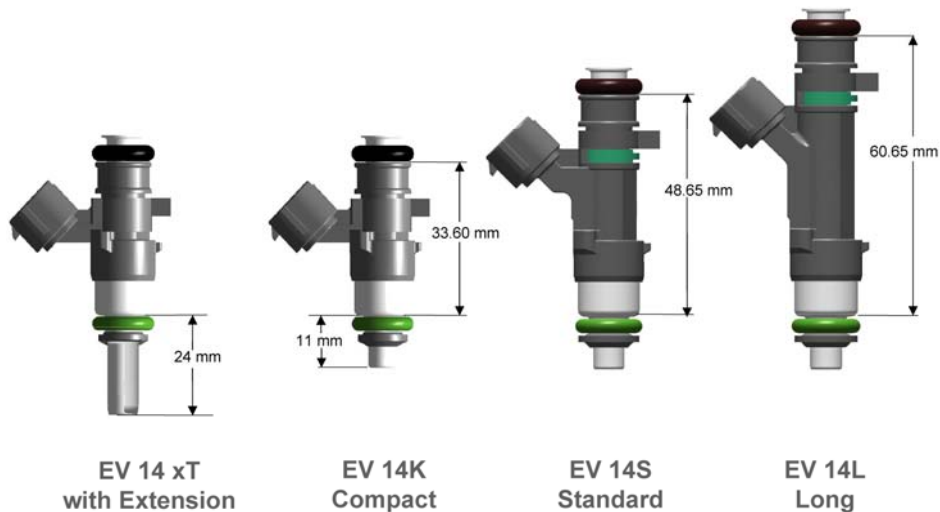
Flow rate at 3 bar (n-heptane) [g/min]	Flow rate at 3 bar [cm <sup>3</sup> /min]	Design	Type	Spray angle $\alpha_{80}$	Bent angle $\gamma$	Coil resistance	Part number
387	566	S	C	70°	0°	12 $\Omega$	<b>B 280 436 038-09</b>
387	566	S	C	25°	0°	12 $\Omega$	<b>B 280 436 038-10</b>
503	736	S	C	70°	0°	12 $\Omega$	<b>B 280 436 038-07</b>
503	736	S	C	25°	0°	12 $\Omega$	<b>B 280 436 038-08</b>
697	1,019	S	E	20°	0°	12 $\Omega$	<b>B 280 436 469-01</b>

Further special motorsport versions are available on request.

**Spray Illustration**
**C: Conical Spray**

**E: 2-Spray**


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

$\delta = 0^\circ - 360^\circ$  possible


**EV 14 Types**




**EV 14 Long**
