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^3/min
Flow rate at 3 bar	100 up to 700 g/min (n-heptane)
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

Flow rate at 3 bar (n-heptane) [g/min]	Flow rate at 3 bar [cm^3/min]	Design	Type	Spray angle α80	Bent angle γ	Coil resistance	Part number
116	170	L	C	15°	0°	12 Ω	**0 280 158 110**
116	170	S	E	15°	0°	12 Ω	**0 280 158 200**
150	219	L	C	20°	0°	12 Ω	**0 280 158 107**
150	219	S	E	19°	0°	12 Ω	**0 280 158 013**
237	347	KxT	C	20°	0°	12 Ω	**0 280 158 038**
237	347	L	E	22°	5°	12 Ω	**0 280 158 116**
372	543	SxT	E	25°	0°	12 Ω	**0 280 158 123**
670	980	KxT	C	30°	0°	12 Ω	**0 280 158 040**

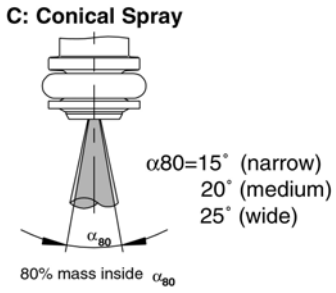
More than 200 additional versions are available on request.

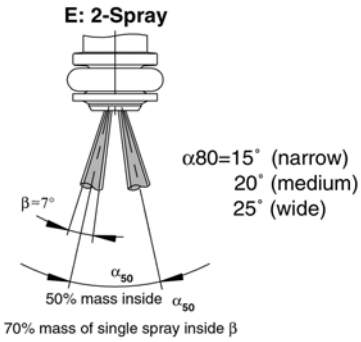
Examples for Motorsports

Flow rate at 3 bar (n-heptane) [g/min]	Flow rate at 3 bar [cm³/min]	Design	Type	Spray angle α80	Bent angle γ	Coil resistance	Part number
387	566	S	C	70°	0°	12 Ω	**B 280 436 038-09**
387	566	S	C	25°	0°	12 Ω	**B 280 436 038-10**
503	736	S	C	70°	0°	12 Ω	**B 280 436 038-07**
503	736	S	C	25°	0°	12 Ω	**B 280 436 038-08**
697	1,019	S	E	20°	0°	12 Ω	**B 280 436 469-01**

Further special motorsport versions are available on request.

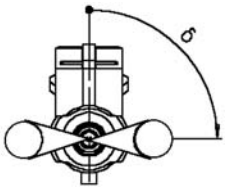
Spray Illustration

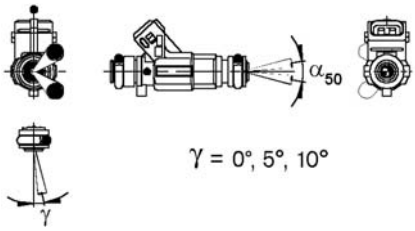




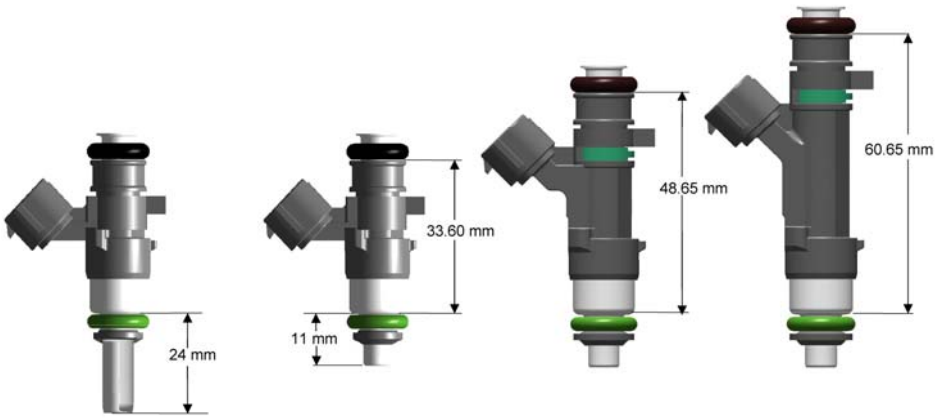
Angle between connection and spray level (δ = delta):
(only 2-spray preparation)

δ = 0°- 360° possible

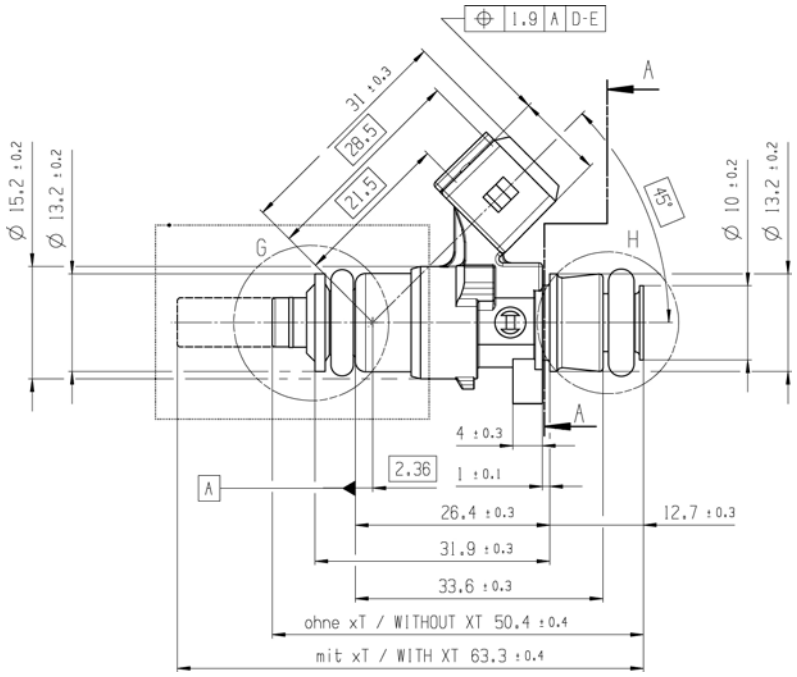




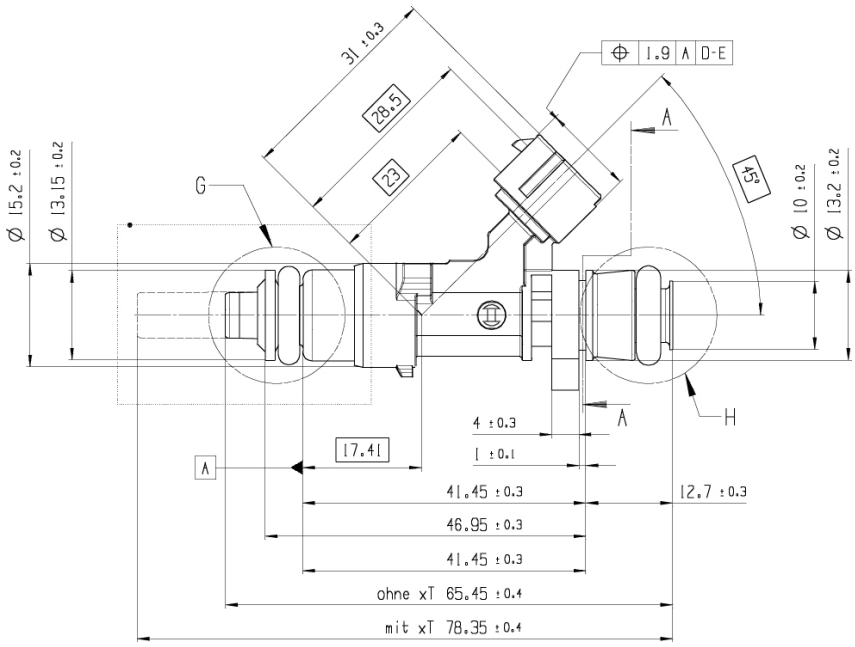
EV 14 Types



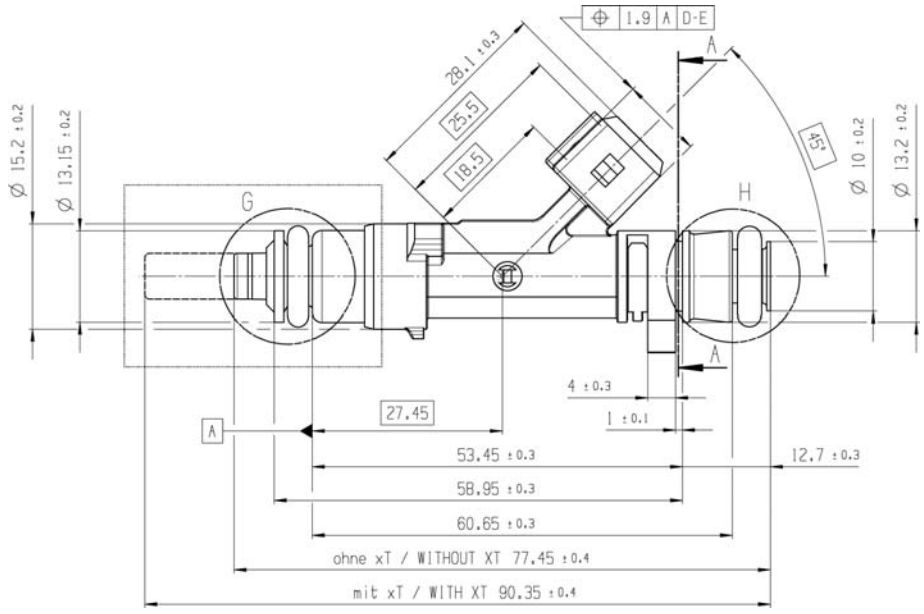
EV 14 Compact



EV 14 Standard



EV 14 Long


1.9 A D-E
A
28.1 ±0.3
25.5
18.5
45°
Ø 15.2 ±0.2
Ø 13.15 ±0.2
Ø 10 ±0.2
Ø 13.2 ±0.2
G
H
A
4 ±0.3
1 ±0.1
A
27.45
53.45 ±0.3
12.7 ±0.3
58.95 ±0.3
60.65 ±0.3
ohne xT / WITHOUT XT 77.45 ±0.4
mit xT / WITH XT 90.35 ±0.4