

Injection Valve EV 14

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BOSCH
Invented for life



- Conical spray or 2-spray
- Flow rate at 3 bar: up to 1,023 cm³/min (N-heptane)
- Spray angle 15 to 85°
- With or without extension

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.

Technical Specifications

Mechanical Data

System pressure	Max. 8 bar
Weight	≤ 30 g
Installation lengths	33.6, 48.65 or 60.65 mm
Fuel input	Top-feed injector
Operating temperature	-40 to 110°C
Permissible fuel temperatures	≤ 70°C
Climate-proof corresponding to saline fog test DIN 50 021	
Housing design	Compact (C), Standard (S), Long (L)
Spray type	C (Conical Spray) or E (2-Spray)
Flow rate at 3 bar (N-heptane)	146 to 1,023 cm ³ /min 100 to 700 g/min
Spray angle α	15 to 85°
Bent angle γ	0 to 15°

Coil resistance	12 Ω
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Fuel compatibility	E85
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Electrical Data

Power supply	6 to 16.5 V
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Connectors and Wires

Connectors	Jetronic, Sumitomo, Motorsport connectors
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Installation Notes

Please ask for more information before ordering.

Ordering Information

EV 14, 116 g/min

Order number **0 280 158 110**

EV 14, 116 g/min

Order number **0 280 158 200**

EV 14, 150 g/min

Order number **0 280 158 107**

EV 14, 150 g/min

Order number **0 280 158 013**

EV 14, 503 g/min

Order number **B 280 436 038-07**

EV 14, 503 g/min

Order number **B 280 436 038-08**

EV 14, 387 g/min

Order number **B 280 436 038-09**

EV 14, 387 g/min

Order number **B 280 436 038-10**

EV 14, 237 g/min

Order number **O 280 158 038**

EV 14, 237 g/min

Order number **O 280 158 116**

EV 14, 429 g/min

Order number **O 280 158 123**

EV 14, 670 g/min

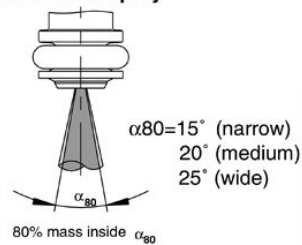
Order number **O 280 158 040**

EV 14, 697 g/min

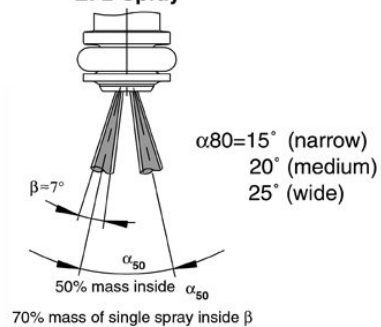
Order number **B 280 436 469-01**

Dimensions

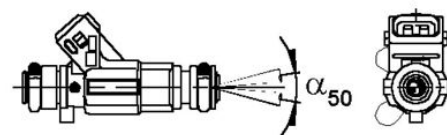
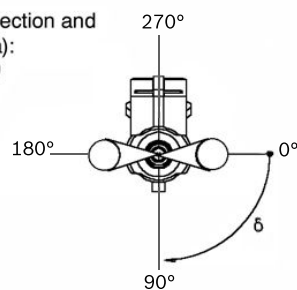
C: Conical Spray



E: 2-Spray

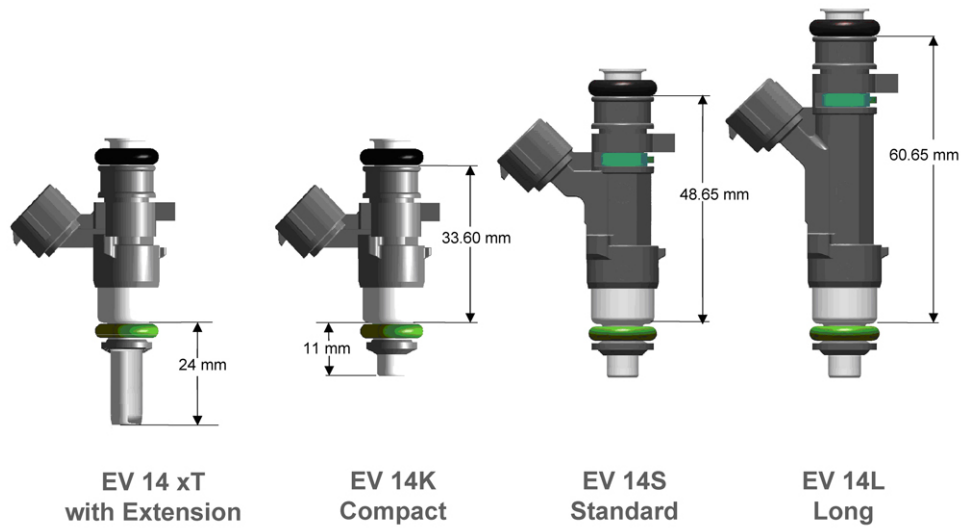


Angle between connection and spray level ($\delta = \text{delta}$):
(only 2-spray preparation)
 $\delta = 0^\circ - 360^\circ$ possible

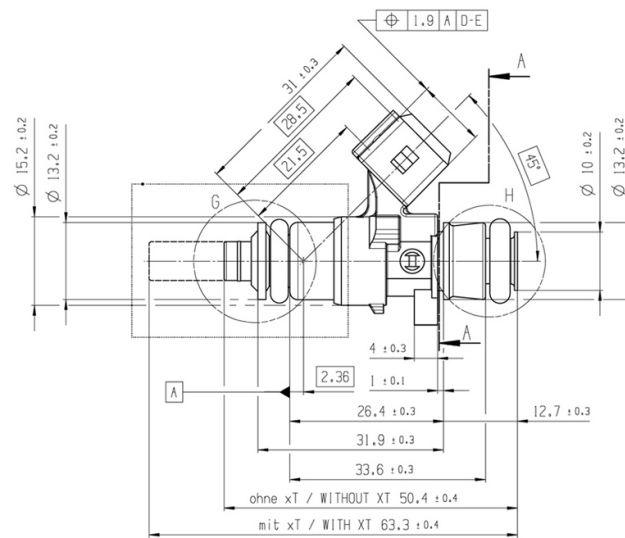


$\gamma = 0^\circ, 5^\circ, 10^\circ$

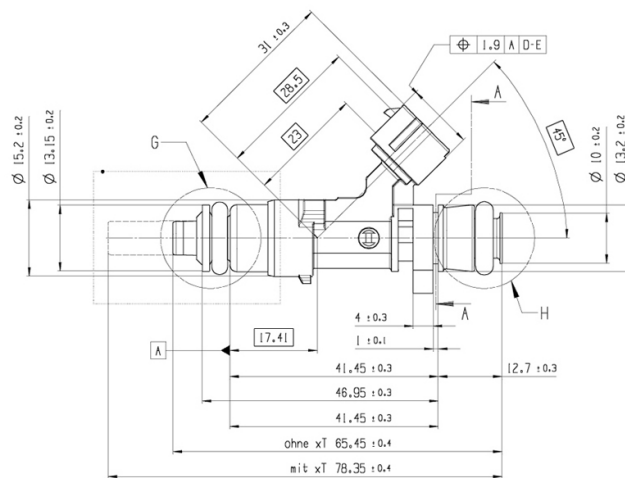
Spray Illustrations



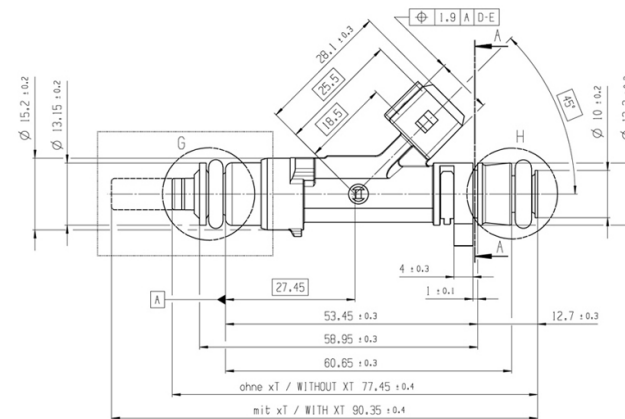
Housing Variations



EV 14 Compact



EV 14 Standard



EV 14 Long

EV 14 Variations

Variations of production type valves

Part Nr.	0 280 158 110	0 280 158 200	0 280 158 107	0 280 158 013	0 280 158 038
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Flow rate/min	116 g/170 cm ³	116 g/170 cm ³	150 g/219 cm ³	150 g/219 cm ³	237 g/347 cm ³
Type	C	E	C	E	C
Housing	L	S	L	S	KxT
α	15°	15°	20°	19°	20°
γ	0°	0°	0°	0°	0°
δ	0°	90°	0°	90°	0°
Resistance	12 Ω	12 Ω	12 Ω	12 Ω	12 Ω

Part Nr.	0 280 158 116	0 280 158 123	0 280 158 040
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Flow rate/min	237 g/347 cm ³	429 g/627 cm ³	670 g/980 cm ³
Type	E	E	C
Housing	L	SxT	KxT
α	22°	25°	30°
γ	5°	0°	0°
δ	90°	90°	0°
Resistance	12 Ω	12 Ω	12 Ω

Further variations are available on request

Variations of Motorsport valves

Part Nr.	B 280 436 038-07	B 280 436 038-08	B 280 436 038-09	B 280 436 038-10	B 280 436 469-01
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Flow rate/min	503 g/736 cm ³	503 g/736 cm ³	387 g/566 cm ³	387 g/566 cm ³	697 g/1,019 cm ³
Type	C	C	C	C	E
Housing	S	S	S	S	S
α	70°	25°	70°	25°	20°
γ	0°	0°	0°	0°	0°
δ	-	-	-	-	90°
Resistance	12 Ω	12 Ω	12 Ω	12 Ω	12 Ω

Further variations are available on request.

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