HP Injection Valve HDEV 5.2 LC

www.bosch-motorsport.com





- ▶ Max. 500 bar
- Multi hole
- Flow rate at 100 bar: up to 1,640 g/min (n-heptane)
- Spray angle 8 to 20°

The HDEV 5.2 LC is a high pressure injector, which is developed to be used as a port or a direct injector. The function of the HDEV 5.2 LC is both to meter out the fuel and to obtain a well-defined mixture of fuel and air. It is an inward opening solenoid injector which is optimized regarding very short opening and closing times which ensures a very stable linearity at short injection times.

The benefit of this injector is a high spray variability concerning spray angle and spray shape. Also the flow rate can be defined in a big range. Bosch offers the spray targeting design according to the individual customer requirements. If your application conditions will not match the listed performance data, please ask for consultancy at Bosch Motorsport. In addition to the specific designed sample, Bosch offers cost effective production HDEV 5.2 LC on request.

Application

308 to 1,640 g/min
Top-feed injector
Gasoline
Up to 500 bar
-31 to 130°C

-40 to 70°C
600 m/s ²

Technical Specifications

Mechanical Data

Weight w/o wire	Max. 221.5 g
Diameter	20.7 mm
Length standard version	185 mm
Length short version	173 mm
Flow rate at 100 bar (n-heptane)	Up to 1,640 g/min
Number of holes	4 to 7 holes (typical)
Spray type	Multi hole
Spray angle overall	110° (typical)
Spray angle single beam	8 to 20°
Static flow tolerance	±5 %
Dynamic flow tolerance	±6 % at ti = 1.5 ms
Leakage	≤2.5 mm³/min at 23°C

Electrical Data

Booster supply	65 to 90 V
Booster current	13.2 A
Booster time	500 µs
Power supply	12 V
Pick up current	9.6 A
Pick up time	800 µs
Hold power supply	12 V
Hold current	3.0 A hysteresis 0.8 A
Coil resistance	1,500 mOhm (ambient temp.)

Connectors and Wires

Mating connector Compact	On request
Connector Jetronic (wire)	D 261 205 288-01
Connector motorsport (wire)	On request
Pin 1	Pos
Pin 2	Gnd

Installation Notes

The injector has to be supplied by a Bosch Motorsport Power Stage Unit (e.g. HPI 5 or HPI 1.16).

Listed electrical values may vary according to the application.

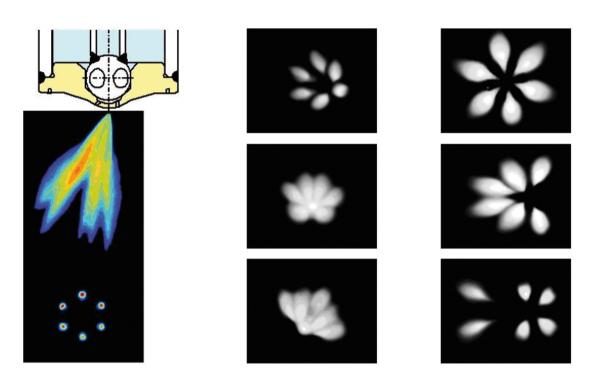
The injector can be cleaned (mechanically or chemically), if the tip will not be damaged.

Do not use supersonic cleaning.

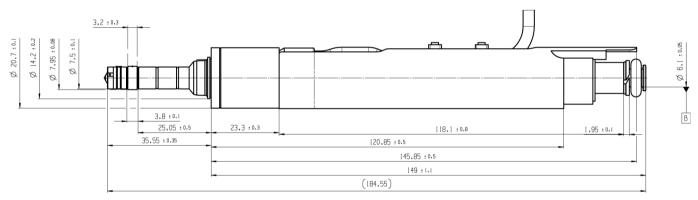
Ordering Information

HP Injection Valve HDEV 5.2 LC Order number on request

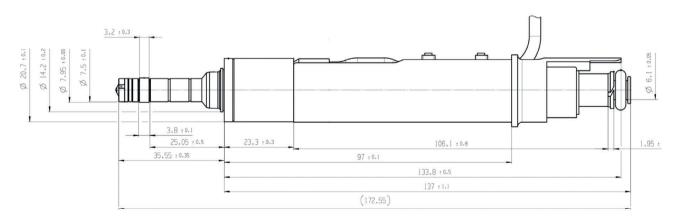
Dimensions



Spray variations, further variations on request



Standard version



Short version

Represented by:

Europe: Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany Tel::+49 7062 911 9101 Forw::40 7062 911 70104 Fax: +49 7062 911 79104 motorsport@bosch.com www.bosch-motorsport.de

North America: North America: Bosch Engineering North America Motorsport 38000 Hills Tech Drive Farmington Hills, MI 48331-3417 United States of America Tel.: +1 248 876 2977 Fax: +1 248 876 7373 motorsport@bosch.com www.bosch-motorsport.com

Latin America: Latin America: Robert Bosch Ltda Motorsport Av Juscelino Kubitscheck de Oliveira 11800 Zip code 81460-900 Curitiba - Parana o e u u Brasilia Tel.: +55 41 3341 2057 Fax: +55 41 3341 2779

Asia-Pacific: Asiaryactitic Bosch Engineering Japan K.K. Motorsport 18F Queen's Tower C, 2-3-5 Minato Mirai Nishi-ku, Yokohama-shi Kanagawa 220-6218 Japan Japan Tel.: +81 45 650 5610 Fax: +81 45 650 5611 www.bosch-motorsport.jp

Australia, New Zealand and South Africa: Robert Bosch Pty. Ltd Motorsport 1555 Centre Road Clayton, Victoria, 3168 Australia Tel.: +61 (3) 9541 3901 motor.sport@au.bosch.com

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