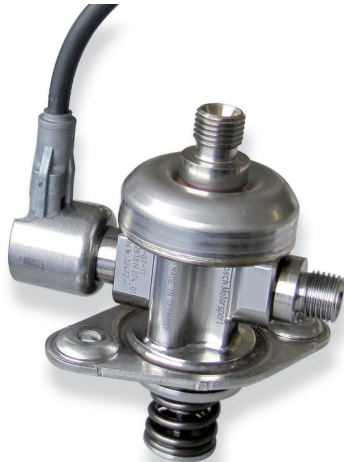


HP Fuel Pump HDP 5-LW

www.bosch-motorsport.com



- ▶ Max. 500 bar
- ▶ Max. 1.1 cm³/rot_{cam}
- ▶ Integrated Flow Control Valve
- ▶ Internal Pressure Relief Valve
- ▶ 585 g

The HDP 5-LW is a compact high pressure single piston pump with a light weight housing. The design allows achieving a big delivery volume as well as high efficiency, as needed in motorsport applications. Modifications in the number of cam lobes and cam lifts allow different flow requirements to be addressed.

The HDP 5-LW is equipped with an internal pressure relief valve to limit the maximum fuel pressure. This pump does not require a fuel return line into the fuel tank.

The pump has an integrated demand control for metering the amount of fuel supplied into the high pressure fuel system. It can be ordered with a compact connector or a motorsport connector.

Depending on the requirements of your engine (e.g. fuel consumption over rotation ratio) we recommend different types of tappets, piston springs and cam profiles. Please notice: Fuel delivery and maximum drive-shaft speed depend on cam profile and type of tappet.

Application

For high pressure manifold injection or gasoline direct injection

Technical Specifications

Mechanical Data

| | |
|-------------------------------------|--------------------------|
| Mass flow | Please see extra sheet |
| Efficiency | Please see extra sheet |
| Body design | Lightweight |
| Flow capacity and max. engine speed | Depending on cam profile |
| Nominal pressure | 500 bar or customization |

Possible customization

| | |
|----------------------------------|--|
| Rev C (EVO) | = Rev B + reduced internal restrictions + introduction of EVO parts (outlet valve) |
| Rev D (Piston) | = Rev C + bigger piston diameter |
| Flange hole circle diameter | 66 mm or 75 mm |
| Flange orientation | Free |
| Electrical connector orientation | 0° or customization |

| | |
|-----------------------------|-------------------------------|
| Hydraulic connection design | M14 x 1.5 or customization |
| Weight | Approx. 585 g |
| Supply pressure | 4 to 7 bar |
| Operating temperature | -40 to 120°C |
| Storage temperature | -40 to 70°C |
| Compatible fuels | Unleaded fuels, E22, E85, M15 |
| Fuel temperature | 80°C, short term 130°C |
| Max. vibration | 600 m/s ² |

Connectors and Wires

| | |
|----------------------------------|--|
| Electrical connector design | Series wire + compact connector |
| | Series wire + motorsport connector |
| | Motorsport wire + open end |
| | Motorsport wire + motorsport connector |
| Hydraulic connection orientation | Fixed |

Installation Notes

Mounting on cylinder head or adapter flag.

Available cam profiles on request.

Select the cam profile on fuel consumption requirements.

Avoid interference with FCV and hydraulic connections at flange orientation.

Avoid interference with flange at electrical connector orientation.

Please specify the electrical connector design and the wire length with your order.

Ordering Information

Rev B (iPRV)

Order number **on request**

Rev C (EVO)

Order number **on request**

Rev D (Piston)

Order number **on request**

Accessories

Flat tappet (26 mm)

Order number **F 02U V01 156-01**

Roller tappet (26 mm)

Order number **F 02U V01 163-01**

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