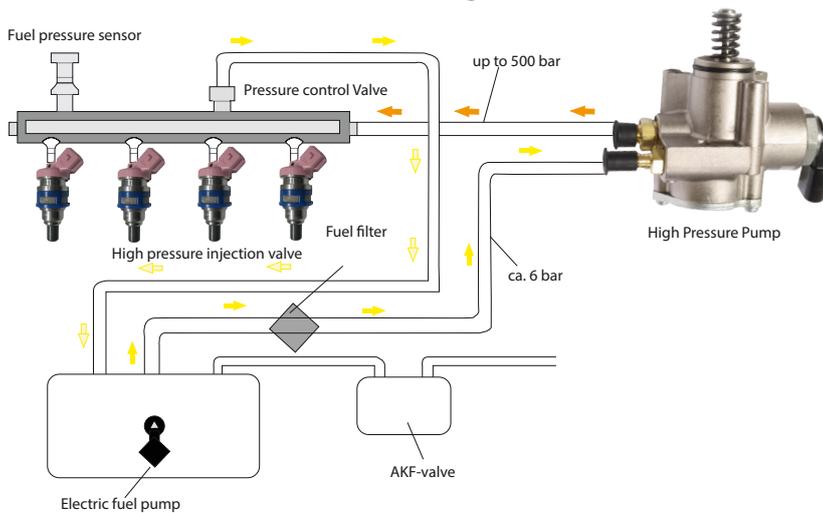


High Pressure Pumps are used in modern petrol engines with direct injection. Petrol direct injection has the benefits, that a higher torque is achieved with the same cubic capacity. This therefore leads to a higher performance. The engine reacts better to changes of the gas-pedal position. In the partial-load operation, the aim is a measurable amount of fuel saving.



The High Pressure Pump is supplied with fuel from the in-tank pump at a pressure of approx. 6 bar and then boosts the fuel with a pressure up to 500 bar into the common rail.

The pump is positioned directly within the cylinder head, because the drive mechanism is mechanical and not electrical.

Hitachi currently supplies 35 high pressure pump SKU's, which match more than 1000 vehicle applications. Models from 2002 to still under production vehicles are covered.

HÜCO No. 133090 / HITACHI No. 2503090		VIO EMEA
	VW GROUP	04E127026BH
	VW GROUP	04E127026BJ
	VW GROUP	04E127026BK
	VW GROUP	04E127026L
	HITACHI	HFS03451
		> 2.758.000

HÜCO No. 133082 / HITACHI No. 2503082		VIO EMEA
	VW GROUP	06J127025C
	VW GROUP	06J127025E
	VW GROUP	06J127025L
	HITACHI	HFS034131
	HITACHI	HFS034135
		> 2.315.000

HÜCO No. 133081 / HITACHI No. 2503081		VIO EMEA
	VW GROUP	06L127025H
	VW GROUP	06L127025T
	PORSCHE	95812702500
	PORSCHE	PAC127025
	HITACHI	HFS034141D
		> 530.000

HÜCO No. 133071 / HITACHI No. 2503071		VIO EMEA
	VW GROUP	03C127026C
	VW GROUP	03C127026M
	VW GROUP	03C127026S
	HITACHI	HFS03431A
	HITACHI	HFS03431M
		> 2.550.000

HITACHI No. 2503096		VIO EMEA
	VW GROUP	05E127027A
	VW GROUP	05E127027G
	HITACHI	HFS55402
	HITACHI	HFS55461
		> 1.081.000
		Vehicles still under production

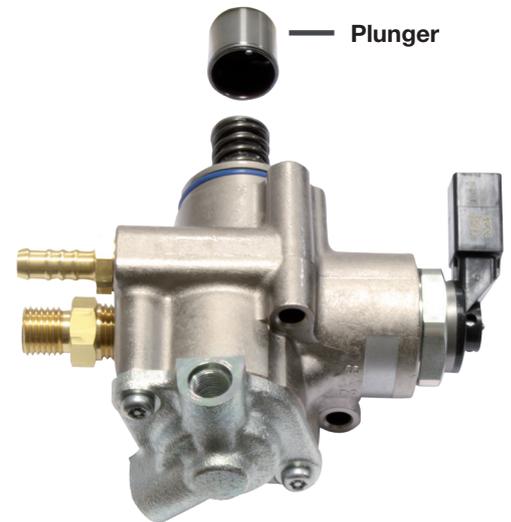
HITACHI No. 2503097		VIO EMEA
<i>in preparation</i>	VW GROUP	05E127027L
	HITACHI	HFS55465
		> 758.000
		Vehicles still under production

* EMEA implies the 17 most relevant countries in the region

Plunger for High Pressure Pumps

The plungers are the connection between the high pressure pump and the actuating camshaft. At this point the rotary motion of the camshaft is transformed into a longitudinal motion of the high pressure pump. Camshafts of the first generation can cause excessive wear at the plunger, because of a constructive weakness at the camshaft. Additionally due to either too late made oil service, wrong oil quality or high vehicle mileage an excessive wear or even a destruction of the plunger can occur.

The plunger should be changed at the first indication of wear or damage, to avoid further damage of the high pressure pump. Furthermore it is recommended to replace the plunger when exchanging the high pressure pump itself.



HÜCO No. 133056 HITACHI No. 2503056	HÜCO No. 133053 HITACHI No. 2503053	HÜCO No. 133057 HITACHI No. 2503057	HÜCO No. 133058 HITACHI No. 2503058	HÜCO No. 133059 HITACHI No. 2503059
VW GROUP 03C127311 VW GROUP 06D127248 VW GROUP 06E127248 VW GROUP WHT005184 VW GROUP 95511061500	AUDI 06M109311B	VW GROUP 06L109311 PORSCHE 06L109311	VW 06H109311B	VW 06D109309C

