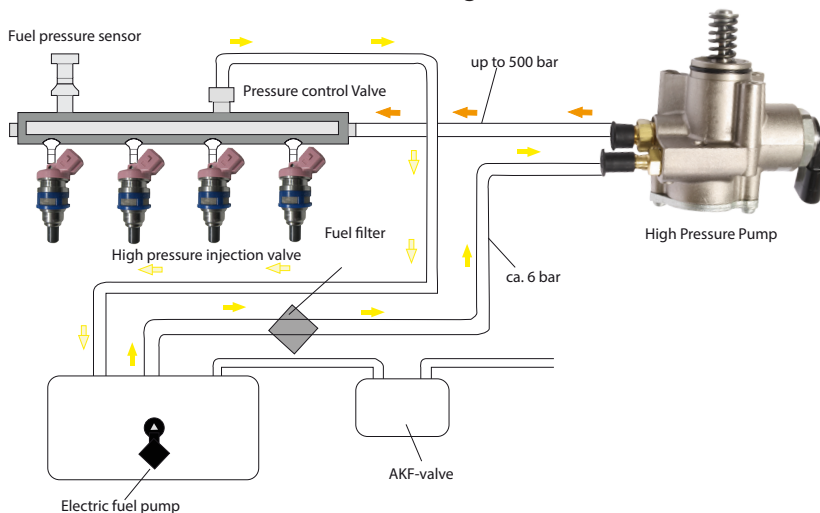


High Pressure Pumps are used in modern petrol engines with direct injection. Petrol direct injection has the benefits, that a higher torque is achieved with the same cubic capacity. This therefore leads to a higher performance. The engine reacts better to changes of the gas-pedal position. In the partial-load 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	> 2.758.000
	VW GROUP	04E127026BJ	
	VW GROUP	04E127026BK	
	VW GROUP	04E127026L	
	HITACHI	HFS03451	

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

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

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

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

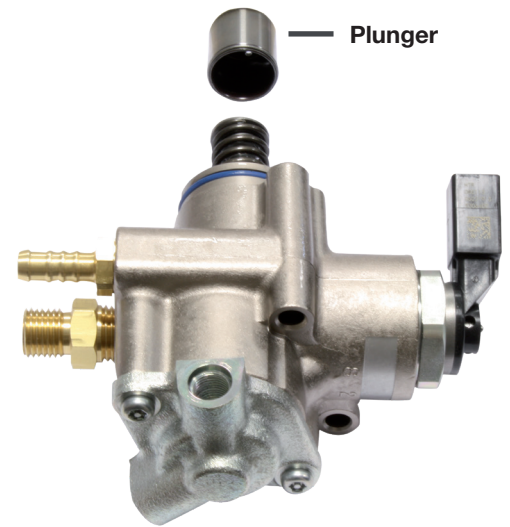
HITACHI No. 2503097			VIO EMEA
<i>in preparation</i>	VW GROUP	05E127027L	> 758.000
	HITACHI	HFS55465	
			Vehicles still under production

* 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.



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