



E69910

Item	Part Number	Description
A	-	Pump plunger 1
B	-	Pump plunger 2
C	-	To fuel rail
1	-	Inlet valve
2	-	Outlet valve
3	-	Eccentric cam
4	-	Eccentric cam ring
5	-	Fuel metering valve
6	-	Drive shaft

The rotary movement of the drive shaft (6) is converted to reciprocating movement by the eccentric cam (3). The eccentric cam ring (4) transfers the reciprocating movement to the pump plungers (1 and 2).

The pump plungers are offset by 180 degrees. This means that during a reciprocating movement, pump plunger 1 performs exactly the opposite movement to pump plunger 2.

When the eccentric cam produces an upward stroke, pump plunger 1 moves in the direction of Top Dead Center (TDC), thus compressing the fuel and delivering it to the fuel rail via the outlet valve (2). The inlet valve (1) is pressed into its seat by the delivery pressure. Pump plunger 2 is moved by the tension spring force in the direction of Bottom Dead Center (BDC). Due to the high pressure in the fuel rail, the outlet valve is pressed into its seat. The pump internal pressure opens the inlet valve and fuel flows into the high-pressure chamber.