

Title (en)  
VALVE ARRANGEMENT

Title (de)  
VENTILANORDNUNG

Title (fr)  
SYSTÈME DE SOUPAPE

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Application  
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Abstract (en)  
[origin: WO2011006707A1] The invention relates to a valve arrangement for high-pressure fuel injection, comprising a pilot valve (3) with a pilot valve needle (5), comprising a pilot valve seat (9) and a pressure chamber (18), comprising an electromagnetic actuator (21) for actuating the pilot valve needle (5), and comprising a main valve (4) with at least one spray hole (11 a), with a closing element (7), with a support piston (20a) and with a pressure compensating chamber (13), wherein the closing element (7) has a receiving chamber (7a) for receiving the support piston (20a) and wherein the pressure compensating chamber (13) is formed in the receiving chamber (7a) of the closing element (7), wherein the pilot valve seat (9) is formed on the closing element (7) and the pilot valve (3) produces a connection between the pressure chamber (18) and the pressure compensating chamber (13) in order to reduce an opening force for the main valve (4).

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