

Title (en)  
INJECTOR WITH AN AXIAL PRESSURE-COMPENSATING CONTROL VALVE

Title (de)  
INJEKTOR MIT AXIAL-DRUCKAUSGEGLICHTENEM STEUERVENTIL

Title (fr)  
INJECTEUR AVEC UNE SOUPAPE DE COMMANDE À COMPENSATION DE PRESSION AXIALE

Publication  
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Application  
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Abstract (en)  
[origin: US2010071665A1] The invention relates to an injector for injecting fuel into combustion chambers. According to the invention, a valve piston of a control valve is provided with low pressure on both faces thereof. The valve piston is arranged in a valve chamber hydraulically connected to a control chamber and is guided inside a sleeve received in the valve chamber. The valve chamber contains a spring supported on one end against the sleeve and on the other end on the valve piston such that the spring presses the valve piston onto a valve seat and the sleeve onto an opposing bottom surface. The valve piston diameter inside the sleeve corresponds to the effective valve piston diameter at the valve seat.

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