

Title (en)

FUEL OVERFLOW VALVE FOR A FUEL INJECTION SYSTEM, AND FUEL INJECTION SYSTEM HAVING A FUEL OVERFLOW VALVE

Title (de)

KRAFTSTOFFÜBERSTRÖMVENTIL FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG UND KRAFTSTOFFEINSPRITZEINRICHTUNG MIT
KRAFTSTOFFÜBERSTRÖMVENTIL

Title (fr)

SOUPAPE DE DÉCHARGE DE CARBURANT POUR DISPOSITIF D'INJECTION DE CARBURANT, ET DISPOSITIF D'INJECTION DE
CARBURANT PRÉSENTANT UNE SOUPAPE DE DÉCHARGE DE CARBURANT

Publication

EP 2207955 A1 20100721 (DE)

Application

EP 08848181 A 20080918

Priority

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Abstract (en)

[origin: WO2009059833A1] The invention relates to a fuel overflow valve for a fuel injection system, particularly for limiting the pressure in a low-pressure region of the fuel injection system. The fuel overflow valve has a valve housing (38), in which a valve member (42) is disposed in a stroke-moving manner, the stroke movement of said valve member controlling a connection (43) of an inlet to the valve housing (38) to a release region. The valve member (42) is loaded by a valve spring (48) in the direction of a locking position in which the connection (43) of the inlet to the release region is interrupted, and is loaded by the pressure present in the inlet in the opening direction. The valve member (42) may carry out a further stroke in the locking direction beyond the locking position thereof, wherein the valve spring (48) does not act upon the valve member (42). Due to the increased stroke of the valve member (42), an improved balance of pressure and volume fluctuations is enabled in the low pressure region and the stroke of the valve spring (48), and thus the stress thereof, may be kept low.

IPC 8 full level

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Citation (search report)

See references of WO 2009059833A1

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