

Title (en)
INJECTION VALVE AND METHOD FOR OPERATING AN INJECTION VALVE

Title (de)
EINSPRITZVENTIL UND VERFAHREN ZUM BETREIBEN EINES EINSPRITZVENTILS

Title (fr)
SOUPAPE D'INJECTION ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE SOUPAPE D'INJECTION

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Application
EP 14795965 A 20141010

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Abstract (en)
[origin: WO2015052332A1] The invention relates to an injection valve (1), comprising: an injector body (2) having a cut-out (3), a fluid inlet (7), and a fluid outlet (9); a needle body (10), which is arranged such that the needle body (10) can move axially in the cut-out (3) of the injector body (2) and which prevents a fluid flow through an injection opening (12) of the injector body (2) when the needle body (10) is in a closed position and allows said fluid flow otherwise; a control chamber (15), which is arranged in the cut-out (3) and is arranged hydraulically between the fluid inlet (7) and the fluid outlet (9); a control valve (16) having a valve body (17), which is arranged in the control chamber (15) and is configured to prevent a fluid flow between the control chamber (15) and the fluid outlet (9) when the valve body (17) is in a closed position and to allow said fluid flow otherwise; a piezoactuator (20), which is coupled mechanically to the control valve (16) via a first carrier (23), for opening the control valve (16), wherein the piezoactuator (20) can also be coupled mechanically to the needle body (10) to close the injection valve (1).

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