

Title (en)

AN INJECTION VALVE RESISTANT TO CAVITATION

Title (de)

GEGEN KAVITATION BESTÄNDIGES EINSPRITZVENTIL

Title (fr)

SOUPAPE D'INJECTION RÉSISTANT À LA CAVITATION

Publication

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Application

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Abstract (en)

[origin: WO2013045690A1] The subject matter invention is an injection valve (10) comprising an input region (11) through which the fuel enters; an armature (40); a valve piece (30) which is positioned so as to define a valve bearing (14) between itself and said armature (40); a control volume (32); and a hole (33), characterized by comprising at least one seating region (20) where the fuel, exiting from said hole (33) towards the valve bearing (14), is sealed; a sealing surface (345, 422), which has a linear cross section, of the part which at least covers the hole (33) between the armature (40) and the valve piece (30) in said seating region (20); and cut-outs on the valve piece (30) and on the armature (40) so that the fuel, comprising cavitation bubbles exiting the hole (33), is able to flow substantially far away from the edges of the armature (40) and of the valve piece (30) inside the valve bearing (14).

IPC 8 full level

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