

Title (en)

VALVE ASSEMBLY FOR AN INJECTION VALVE AND INJECTION VALVE

Title (de)

VENTILANORDNUNG FÜR EIN EINSPRITZVENTIL UND EINSPRITZVENTIL

Title (fr)

ENSEMBLE DE SOUPAPE POUR SOUPAPE D'INJECTION ET SOUPAPE D'INJECTION

Publication

EP 3470658 B1 20200715 (EN)

Application

EP 17195766 A 20171010

Priority

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Abstract (en)

[origin: EP3470658A1] Valve assembly (3) for an injection valve (1), comprising - a valve body (4) with a central longitudinal axis (L) comprising a cavity (9) with a fluid inlet portion (5) and a fluid outlet portion (7), wherein the cavity (9) comprises a first portion (25) extending from the fluid inlet portion (5) to a bottom surface (29) and a second portion (27) extending from a central opening (31) in the bottom surface (29) down towards the fluid outlet portion (7) ; - a valve needle (11) axially moveable in the cavity (9), the valve needle (11) preventing a fluid flow through the fluid outlet portion (7) in a closing position and releasing the fluid flow through the fluid outlet portion (7) in further positions, the valve needle (11) extending through the central opening (31); - an armature (21) of an electro-magnetic actuator unit (20) being designed to actuate the valve needle (11); wherein a one-way flap valve member (40) is arranged above the central opening (31) in the bottom surface (29) and fixed to the valve body (4) preventing fluid flow in the direction towards the fluid inlet portion (5).

IPC 8 full level

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