

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 2241743 B1 20140702 (EN)

Application
EP 09005323 A 20090414

Priority
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Abstract (en)
[origin: EP2241743A1] Valve assembly (11) for an injection valve (10), comprising a valve body (14) including a central longitudinal axis (L), the valve body (14) comprising a cavity (18) with a fluid inlet portion (42) and a fluid outlet portion (40), a valve needle (20) axially movable in the cavity (18), the valve needle (20) preventing a fluid flow through the fluid outlet portion (40) in a closing position and releasing the fluid flow through the fluid outlet portion (40) in further positions, and an electro-magnetic actuator unit (36). The electro-magnetic actuator unit (36) is designed to actuate the valve needle (20) and comprises an armature (21,22) axially movable in the cavity (18). The armature (21,22) comprises a first armature part (21) being fixedly coupled to the valve needle (20) and a second armature part (22) being axially movable relative to the first armature part (21). The armature (21,22) is designed in way that the second armature part (22) can mechanically decouple from the first armature part (21) due to its inertia when the valve needle (20) reaches the closing position. Injection valve (10) with such a valve assembly (11).

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