

Title (en)

Thermal compensation arrangement in an injection valve

Title (de)

Anordnung zum thermischen Ausgleich in einem Einspritzventil

Title (fr)

Arrangement thermique de compensation dans une valve d'injection

Publication

EP 1887216 B1 20100106 (EN)

Application

EP 06016135 A 20060802

Priority

EP 06016135 A 20060802

Abstract (en)

[origin: EP1887216A1] Thermal compensation arrangement (14) for an injection valve (10). The thermal compensation arrangement (14) comprises a casing (45) being coupable to the housing (12) and comprising a recess (54), a piston (46) axially movable in the recess (54) and being coupable to a valve needle actuator unit (16), the piston (46) having a lateral surface (60), a first front surface (58) pointing in axial direction and a second front surface (59) pointing in axial direction and away from the first front surface (58), a gap (65) between the lateral surface (60) of the piston and the casing (45), a first piston channel (61a) being arranged in the piston (46) and extending from the first front surface (58) to the second front surface (59) of the piston (46), and a second piston channel (61b) extending from the lateral surface (60) to the first piston channel (61a) thereby enabling a fluid flow through the second piston channel (61b) between the gap (65) and a recess section (66) extending in axial direction between the first front surface (58) of the piston (46) and the casing (45).

IPC 8 full level

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CPC (source: EP)

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Cited by

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