

Title (en)

Thermal compensation arrangement and injection valve

Title (de)

Thermische Kompensationsanordnung und Einspritzventil

Title (fr)

Agencement de compensation thermique et soupape d'injection

Publication

**EP 2141346 B1 20110119 (EN)**

Application

**EP 08012064 A 20080703**

Priority

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Abstract (en)

[origin: EP2141346A1] Thermal compensation arrangement (12) comprising a housing (14) including a first central longitudinal axis (A), the housing (14) comprising a cavity (22), a solid state actuator unit (16) being arranged in the cavity (22) and having a first axial end (16a) and a second axial end (16b), the second axial end (16b) acting as a drive side of the actuator unit (16), and a thermal compensation unit (18) being arranged in the cavity (22) and being coupled to the first axial end (16a) of the actuator unit (16). The thermal compensation unit (18) comprises a casing (40) being coupable to the housing (14) and comprising a recess (42), a piston (44) axially movable in the recess (42) and being coupable to the actuator unit (16), the piston (44) having a first front surface (58) facing the solid state actuator unit (16) and a second front surface (59) facing away from the first front surface (58), a gap (62) being formed in the recess (42) and extending in radial direction between the piston (44) and the casing (40), and a piston channel (68) being arranged in the piston (44) and extending from the first front surface (58) to the second front surface (59) of the piston (44) thereby enabling a fluid flow through the piston channel (68). The piston channel (68) comprises a converging section (70), which converges towards the first front surface (58) of the piston (44).

IPC 8 full level

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