

Title (en)

FAIL-SAFE ROTARY ACTUATOR FOR A COOLANT CIRCUIT

Title (de)

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Title (fr)

ACTIONNEUR ROTATIF À SÛRETÉ INTÉGRÉE POUR UN CIRCUIT DE LIQUIDE DE REFROIDISSEMENT

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Application

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Priority

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Abstract (en)

[origin: WO2010127825A2] The invention relates to a fail-safe rotary actuator (1) for a coolant circuit, particularly for a coolant circuit of an internal combustion engine (2) comprising a plurality of partial circuits (3) and (4), having a coolant delivery pump (5) for circulating the coolant within the coolant circuit, and having a rotary vane housing (8) comprising a plurality of housing pass-through openings (6) and (7), in which at least one rotary vane (9) having at least one rotary vane pass-through opening (11) and (12) is rotationally supported, wherein the housing pass-through openings (6) and/or (7) are fluidically connected to at least one partial circuit (3) and/or (4), and can be brought into at least partial interference with the rotary vane pass-through openings (11) and/or (12) by a rotary motion of the rotary vane (9), wherein a thermostat valve (13) opens a flow path running parallel to the rotary vane (9) from one of the partial circuits (3) or (4) to the coolant delivery pump (5) when a temperature limit of the coolant is exceeded.

IPC 8 full level

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