

Title (en)

ACTUATOR, IN PARTICULAR FOR VALVES, RELAYS OR SIMILAR

Title (de)

AKTUATOR, INSBESONDERE FÜR VENTILE, RELAIS ODER DGL.

Title (fr)

ACTIONNEUR, NOTAMMENT POUR SOUPAPES, RELAIS OU SIMILAIRES

Publication

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Application

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Abstract (en)

[origin: WO0199129A1] The invention relates to an actuator, in particular for valves, relays or similar, which has an electromagnet (10) with a solenoid (11), a magnet armature (12) that can be displaced between two end positions and a magnet yoke (13), in addition to an actuating plunger (14) which is driven by the magnet armature (12). The aim of the invention is to create a bistable actuator with low power consumption and negligible heating of current-bearing components, in particular after extremely long switching periods in both switching positions during the power supply. To achieve this, the electromagnet (10) is configured in such a way that its magnet armature (12) has a stable central position, midway between the two end positions that form the two switching positions of the actuator, said central position being attained from the two end positions by a supply of current to the solenoid (11). In addition, the actuator is provided with a bistable, mechanical blocking element (15), which acts on the magnet armature (12) or the actuating plunger (14) and is effective in the end positions of the magnet armature (12).

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