

Title (en)

METHOD FOR IDENTIFYING LEAKS BY MEANS OF AN ACTUATOR

Title (de)

VERFAHREN ZUR LECKAGEERKENNUNG MITTELS EINES AKTUATORS

Title (fr)

PROCÉDÉ POUR LA RECONNAISSANCE D'UNE FUITE AU MOYEN D'UN ACTIONNEUR

Publication

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Application

**EP 18755394 A 20180706**

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Abstract (en)

[origin: WO2019011375A1] The invention relates to a method for controlling an actuator (1), in which the actuator (1) has at least one drive unit (2) with an electric motor (3) and a control unit (4). The motor (3) has at least one stator (5) and one rotor (6) and rotation of the rotor (6) can be detected via a rotor position sensor (8), which is connected to the control unit (4). The actuator (1) has a displacement unit (9), drivable via the rotation of the rotor (6), for displacing a fluid. The displacement unit (9) has a certain geometric displacement volume per revolution of the rotor (6). The method comprises at least the following steps: a) generating a predetermined pressure at the displacement unit (9) by applying an electrical driving power to the motor (3); b) maintaining the predetermined pressure over a predetermined time interval; c) determining the rotation of the rotor (6) by the rotor position sensor (8) within the time interval and determining a leak volume flow.

IPC 8 full level

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