Title (en)

METHOD FOR SENSING VIBRATIONS AND/OR IMPACTS TO WHICH A CONTROL VALVE CAN BE EXPOSED

Title (de)

VERFAHREN ZUM ERFASSEN VON SCHWINGUNGEN UND / ODER SCHLÄGEN, DENEN EIN STELLVENTIL AUSGESETZT SEIN KANN

Title (fr)

PROCÉDÉ DE DÉTECTION DE VIBRATIONS ET/OU D'IMPACTS AUXQUELS PEUT ÊTRE EXPOSÉE UNE SOUPAPE DE COMMANDE

Publication

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Application

EP 21728184 A 20210518

Priority

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Abstract (en)

[origin: WO2021233941A1] The invention relates to a method for sensing vibrations and/or impacts to which a control valve (100) can be exposed, for example in a processing system. To this end, position sensors are used, which are used to monitor the position of the valve member. The positions of the valve member (125) measured during monitoring are recorded and analysed in the method. Vibrations and/or impacts which are transferred to the valve member (125) and/or the sensor unit are identified from, for example, deviations from target positions or position changes. In this manner, vibrations and/or impacts owing to, for example, flow fluctuations, wear of components of the control valve (100) or system or environmental influences can be sensed. The use of additional sensors is not necessary or can at least be reduced. Furthermore, the provided position sensors are already designed for use in a control valve (100). The method can therefore be implemented in a cost-effective yet reliable manner.

IPC 8 full level

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CPC (source: EP)

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