

Title (en)

METHOD FOR MEASURING FLOW AND/OR VOLUME IN A FLUID-CONDUCTING PIPELINE WITH WIDELY FLUCTUATING FLOW VOLUMES, AND AN ARRANGEMENT FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUR DURCHFLUSS- UND/ODER MENGENMESSUNG IN EINER FLUIDFÜHRENDEN ROHRLEITUNG MIT STARK SCHWANKENDEN DURCHFLUSSMENGEN SOWIE EINE ANORDNUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE MESURE DE DÉBIT ET/OU DE VOLUME DANS UNE CANALISATION CONDUCTRICE DE FLUIDE AVEC DES VOLUMES D'ÉCOULEMENT LARGEMENT FLUCTUANTS, ET AGENCEMENT POUR LA MISE EN OEUVRE DU PROCÉDÉ

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Application

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Abstract (en)

[origin: WO2022112245A1] The invention relates to a method for measuring flow and/or volume in a fluid-conducting pipeline with widely fluctuating flow volumes and to an arrangement for carrying out the method. The problem addressed by the invention is therefore that of overcoming the disadvantages of the prior art and providing a cost-effective, precise and low-loss method for measuring flow and volume in fluid-conducting pipelines with widely fluctuating fluids, and providing a cost-effective, precise and low-loss arrangement for measuring flow and volume in fluid-conducting pipelines with widely fluctuating fluids. Said problem is solved by means of a method for measuring flow and/or volume in a fluid-conducting pipeline (2) with widely fluctuating flow volumes, wherein the fluid-conducting pipeline (2) has at least one component (8) which causes a pressure loss, the method comprising the following method steps: a. carrying out a flow and/or volume measurement in a bypass (6) which is arranged at the fluid-conducting pipeline (2) in such a manner that a part of the fluid can bypass the component (8), and/or detecting the pressure loss caused by the component (8) in the fluid-conducting pipeline (2), b. determining an operating mode of the component (8), c. selecting a characteristic curve based on the determined operating mode, d. determining the flow and/or volume in the fluid-conducting pipeline (2) based on the measured flow and/or measured volume in the bypass (6) and/or by means of the determined pressure loss in the fluid-conducting pipeline (2) in the selected characteristic curve.

IPC 8 full level

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