

Title (en)

METHOD FOR PRODUCING A SET OF CHARACTERISTIC CURVES OF A FLUID PUMP, USE OF A LIMITED VALVE, USE OF A STAGING VALVE, AND CONTROL DEVICE FOR A FLUID CONVEYING SYSTEM

Title (de)

VERFAHREN ZUM ERSTELLEN EINES KENNLINIENFELDS EINER FLUIDPUMPE, VERWENDUNG EINES LIMITIERTEN VENTILS, VERWENDUNG EINES STUFENVENTILS UND STEUERGERÄT FÜR EIN FLUIDFÖRDERSYSTEM

Title (fr)

PROCÉDÉ D'ÉLABORATION D'UN DIAGRAMME CARACTÉRISTIQUE D'UNE POMPE À FLUIDE, UTILISATION D'UNE SOUPAPE LIMITÉE, UTILISATION D'UN CLAPET À GRADINS ET APPAREIL DE COMMANDE POUR SYSTÈME DE REFOULEMENT DE FLUIDE

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Abstract (en)

[origin: WO2016071285A1] The invention relates to a method for producing a set of characteristic curves of a fluid pump (13) of a pressure-dependent fluid conveying system (10) in a working range of the fluid pump (13). In this connection the fluid conveying system (10) comprises a current-controlled electric motor (11) which is controlled by an engine control unit (12) by means of a control current. The fluid pump (13) is driven by the electric motor (11). The method comprises the step of setting the control current to a predetermined value, and the steps of changing a flow volume of the fluid conveying system (10), according to which the control current is set. Furthermore, a quantity of data which describes a pressure in the fluid conveying system is recorded as a function of the change in the flow volume. The steps of setting, changing and recording are repeated for a predetermined number of repetitions and predetermined control currents. A set of characteristic curves is produced from the recorded quantity of data. The invention relates to a use of a limited valve, use of a staging valve, and a control device for a fluid conveying system (10).

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