

Title (en)

METHOD AND DEVICE FOR DETERMINING AND BALANCING THE WORKING POINT OF VALVES IN A HYDRAULIC SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG UND ABGLEICH DES ARBEITSPUNKTES VON VENTILEN IN EINEM HYDRAULISCHEN SYSTEM

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER ET RÉGLER LE POINT DE FONCTIONNEMENT DYNAMIQUE DE SOUPAPES DANS UN SYSTÈME HYDRAULIQUE

Publication

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Application

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Abstract (en)

[origin: WO2010006919A1] The present invention relates to a method and a device for determining the working point of switching valves of a hydraulic system of a vehicle, in particular of a hydraulic braking circuit, wherein the hydraulic system comprises at least pressure generating means (101, 108), a high pressure switching valve (105), a switching valve (106) and a pre-pressure sensor (104), wherein a pre-pressure p_vor is built up that is higher than a target pressure of the switching valve; the switching valve is subjected to a target flow corresponding to the target pressure; the pre-pressure p_vor is reduced until the switching valve closes; when the switching valve is closed, a nominal target pressure p_vor_nominal is built up as pre-pressure; after the switching valve is opened, a pressure difference ?P between pre-pressure p_vor_nominal and a circuit pressure p_kreis is detected; and the working point is determined based on the pressure difference ?p.

IPC 8 full level

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