Title (en)

METHOD FOR FAULT LOCALIZATION AND DIAGNOSIS IN A FLUIDIC INSTALLATION

Title (de)

VERFAHREN ZUR FEHLEREINGRENZUNG UND DIAGNOSE AN EINER FLUIDISCHEN ANLAGE

Title (fr)

PROCÉDÉ DE LOCALISATION DE DÉFAUT ET DE DIAGNOSTIC D'UNE INSTALLATION FLUIDIQUE

Publication

EP 2047117 B1 20100616 (DE)

Application

EP 07703455 A 20070214

Priority

EP 2007001268 W 20070214

Abstract (en)

[origin: US7941290B2] In a method for error containment and diagnosis in a fluid power system the fluid volumetric flow in the overall system or at least a part thereof and the fluid pressure (P) is detected as a measurement quantity in each case during a duty cycle and is compared with stored references. In each case at the point in time of a deviation or a change in the deviation from the reference it is determined at which component or at which components (10 through 14) of the system an event has occurred influencing fluid consumption in order to recognize same as subject to error. Guide value quantities (Q/P) are derived from the respective volumetric flow values (Q) and the measured pressure (P) and are integrated or summated over the duty cycle to form guide values (KD), a corresponding guide value reference curve (KDref) as a reference being chosen from a stored selection matrix, which has the guide value reference curves (KDref) or time dependent guide values for different operating conditions.

IPC 8 full level

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