Title (en)

METHOD FOR DETERMINATION OF LEAKS IN TAP WATER SYSTEMS

Title (de)

VERFAHREN ZUM ERFASSEN VON LECKAGEN IN WASSERLEITUNGSSYSTEME

Title (fr)

PROCEDE DE DETECTION DE FUITES DANS DES SYSTEMES DE DISTRIBUTION D'EAU

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Application

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Abstract (en)

[origin: WO0020832A1] The object of the invention is a method for determination of leaks in tap water systems of buildings with condition follow-up equipment and for defining of size and quality of possible leaks. According to the invention, the method is based on preparatory advance basic functions, by which the disturbing factors are removed, which form an obstacle for a quick and reliable pressure measuring. In connection with the installation work of the equipment, an elasticity measuring of the tap water network is performed and on the basis of that, the pressure measuring time is calculated, which is needed for the defining of the size of the possible leak. Due to the different elasticities of the pipe networks, the measuring time varies most generally between about 4-30 seconds. A short measuring time is also apt to eliminate the detrimental effects of the temperature changes/pressure variations. After the advance functions and the separation of the network, with the condition follow-up equipment of the water distribution network a quick pressure measuring of the whole network with an accuracy of 0.01 bar is performed. The measuring reveals a possible leak and its size. It is also possible to evaluate the quality of the leak.

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