

Title (en)
Equalizing method for a network of a non compressible fluid

Title (de)
Ausgleichsverfahren eines Netzes für eine nicht-komprimierbare Flüssigkeit

Title (fr)
Procédé d'équilibrage d'un réseau de distribution de fluide non compressible

Publication
EP 0795724 A1 19970917 (FR)

Application
EP 97420041 A 19970313

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FR 9603416 A 19960314

Abstract (en)
The balancing of incompressible fluid flow rates in a two tube (flow and return) network with several diversion branches consists of breaking down the installation into elementary networks. Each of these has a main pressure regulator (2) and a pressure regulator (3) in each branch. Pressure tappings are located either side the branch regulator and a third pressure tapping is located at a distance from these. Measurement of the flow rate in a particular branch is obtained by measuring the pressure difference either side the pressure regulator. The pressure difference obtained by measuring the third pressure tapping and one of the other two tappings is also taken. From these pressure difference values the coefficient of hydraulic resistance (Z) of the branch is calculated. Coefficients are calculated for each branch in the same way.

Abstract (fr)
Ce procédé consiste à décomposer l'installation en réseaux élémentaires dont chacun comporte un organe d'équilibrage de tête (2) et un organe d'équilibrage (3) sur chaque branche dérivée, à mesurer dans chaque branche le débit de fluide et la différence de pression pour déterminer le coefficient de résistance hydraulique Z, à déterminer les coefficients Z des différents tronçons du circuit principal puis, connaissant le débit souhaité dans chaque branche et en appliquant les formules de couplage en série et en parallèle des coefficients Z successivement dans les différentes branches, à calculer la position de réglage de chaque organe d'équilibrage pour obtenir effectivement le débit souhaité. <IMAGE>

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F17D 1/14 (2013.01 - EP); **F24D 19/1015** (2013.01 - EP US)

Citation (search report)

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