

Title (en)
Directional control valve

Title (de)
Wegeventil

Title (fr)
Distributeur à voies multiples

Publication
EP 1101950 A2 20010523 (EN)

Application
EP 00202161 A 20000621

Priority
IT RE990119 A 19991117

Abstract (en)
Valve to control the direction of flow, which has a primary intake for pressurised fluid, at least one primary outlet for discharge, and at least one primary usage way which is connected to a user, which define an equivalent number of primary ways for intake/output of the fluid, characterised in that it comprises the following: the valve comprises at least one pair of inner passages P1, P2, consisting of a first inner passage, which connects the primary intake 11 to the primary usage way 13, and of a second inner passage P2, which connects the primary usage way 13 to a primary outlet 12, each inner passage P1, P2 comprising two inlets for communication with respective primary ways 11, 12, 13; there are also provided means for closure of the inner passages P1, P2, each comprising a flexible membrane 21, 22 which is free to bend, and can assume a first position in which it is disposed on the two inlets themselves such as to close the latter, and a second position in which it is raised from the inlets themselves, such as to leave the latter free, and a transit chamber 23, 24 which is disposed on the flexible membrane, and is separated from the area of passage of the fluid, into which the two communication inlets open; and there are provided piloting means, which are controlled, and can introduce into one 23 of the transit chambers a pilot fluid with pressure which can thrust the respective membrane 21 into the said first position, in order to close the passage of the fluid, and simultaneously to allow the other transit chamber 24 to be discharged, in order to allow the membrane 22 to go into the said second position, such as to permit passage of the fluid; and vice versa. <IMAGE>

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