

ABSTRACT

DIRECTIONAL VALVE HAVING A VALVE HOUSING

The invention relates to a directional valve having a valve housing (1) having a primary port (3) and at least one first and one second secondary port (4, 5) and a rotary piece (9) arranged in the valve housing (1), which rotary piece is penetrated by a channel (11) and is rotatable about a rotation axis (10) in order to adjust the directional valve between at least one first and one second switching position, wherein a first end of the channel (11) is concentric to the rotation axis (10). The rotary piece (9) has an outer surface (13) which is curved in a spherical cap-shaped manner, at which outer surface the second end of the channel (11) opens. The valve housing (1) has an inner surface (14) which is curved in a spherical cap-shaped manner, at which inner surface secondary connection channels (7, 8) of the secondary connections (4, 5) open, and which is opposite the outer surface (13) of the rotary piece (9) that is curved in a spherical cap-shaped manner. The outer surface (13) of the rotary piece, which is curved in a spherical cap-shaped manner, and the curved inner surface (14) of the valve housing (1), which is curved in a spherical cap-shaped manner, extend at most over the extent of a hemisphere.

Figure No. 3