

Title (en)
VALVE FOR CONTROLLING FLUIDS

Title (de)
VENTIL ZUM STEUERN VON FLÜSSIGKEITEN

Title (fr)
SOUPAPE POUR COMMANDER LE PASSAGE DE LIQUIDES

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Application
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Abstract (en)
[origin: WO0123743A1] The invention relates to a valve (1) for controlling fluids comprising a piezoelectric unit (3) for actuating a valve member (2) which can be axially displaced and inserted into a bore (8) of a valve body (9) and is provided with a valve closing member (13) at one end which cooperates with at least one seat (14, 15) disposed on a valve body (9) in order to open and close a valve (1). The valve closing member (13) separates a low pressure region (16) having a system pressure (p_sys) from a high pressure region (17). A filling device (26) is provided in the shape of a channel (27) with a throttling bore (28) in order to compensate for a leaked volume from the low pressure region (16) caused by drawing off hydraulic liquid from the high pressure region (17). The diameter thereof is selected in such a manner that a fluid volume flowing past said throttle bore (28) and emanating from the high pressure region (17) compensates for the leaked amount from the low pressure region when a defined minimum high pressure (p_R_min) prevails.

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