

Title (en)  
VALVE FOR REGULATING FLUIDS

Title (de)  
VENTIL ZUM STEUERN VON FLÜSSIGKEITEN

Title (fr)  
SOUPAPE DE REGULATION DE FLUIDES

Publication  
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Application  
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Abstract (en)  
[origin: WO0181755A1] The invention relates to a valve for regulating fluids comprising a piezoelectric unit (4) for actuating a valve member (3), to which a valve closing member (12) is allocated, said closing member separating a low-pressure area (16) at system pressure from a high-pressure area (17). The valve member (3) has at least a first piston (9) and a second piston (11), between which a hydraulic chamber is configured (13). A filling device (23) which can be connected to the high-pressure area (17) compensates leakage losses. Said filling device has at least one channel-type hollow chamber (24), in which a fixed body (25) that is surrounded by a gap is located in such a way that at one end (25A) of the fixed body (25) a conduit (26) which branches from the high-pressure area (17) opens into the hollow chamber (24) and that at the opposite end (25B) of the fixed body a leakage conduit (27) opens into said chamber and that a conduit (29), which leads to the hydraulic chamber (13), branches off from the longitudinal extension of the fixed body (25). The system pressure ( $p_{sys}$ ) in the hydraulic chamber (13) can be regulated by the geometric fixation of the branch (28).

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