

Title (en)
VALVE FOR CONTROLLING LIQUIDS

Title (de)
VENTIL ZUM STEUERN VON FLÜSSIGKEITEN

Title (fr)
SOUPAPE POUR COMMANDER LE PASSAGE DE FLUIDES

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Application
EP 00974319 A 20000914

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• DE 19946840 A 19990930

Abstract (en)
[origin: US6502803B1] A valve for controlling fluids is embodied with a piezoelectric actuator (3) for actuating a valve member (2) that on one end has a valve head (7), forming a valve closing member, that cooperates with a seat (8) provided on the valve body (6) for opening and closing the valve (1). On a side of the piezoelectric actuator (3) remote from the valve member (2), a hydraulic chamber (21) is provided, which communicates, via at least one hydraulic line (23), with a bore (5) of the valve member (2) that is sealed from the piezoelectric actuator (3), and into which bore a piston (20) connected to the piezoelectric actuator (3) can plunge; the hydraulic chamber (21) is embodied as a hydraulic spring, which with its spring force on the piston (20) connected to the piezoelectric actuator (3) act as the prestressing element and the tolerance compensating element. The valve is intended in particular as a component of a fuel injection valve.

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IPC 8 full level
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