

Title (en)
VALVE FOR METERING A FLUID

Title (de)
VENTIL ZUM ZUMESSEN EINES FLUIDS

Title (fr)
SOUPAPE SERVANT À DOSER UN FLUIDE

Publication
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Application
EP 18722483 A 20180503

Priority
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• EP 2018061296 W 20180503

Abstract (en)
[origin: WO2018206382A1] A valve (1) for metering a fluid, which valve serves, in particular, as a fuel injection valve for internal combustion engines, comprises an electromagnetic actuator (10) which has an armature (6) which is arranged in an armature space (16), and a valve needle (5) which can be operated by the actuator (10) by means of the armature (6), wherein the armature (6) is guided on the valve needle (5), wherein a first stop element (7), which interacts with a first end side (22) of the armature (6) during operation, and a second stop element (8), which interacts with a second end side (23) of the armature (6) during operation, are arranged on the valve needle (5) and limit a movement of the armature (6) relative to the valve needle (5), and wherein the armature (6) has a spring receptacle (25) which is open in the direction of the first end side (22) of the armature (6) and into which a spring (27), which is supported on the stop element (7), is inserted. Here, the valve (1) is embodied such that the armature (6) has at least one fluid channel (15) which, during operation, allows fluid to flow between a first region (17) of the armature space (16), which first region adjoins the first end side (22) of the armature (6), and a second region (18) of the armature chamber (16), which second region adjoins the second end side (23) of the armature (6), that the fluid channel (15) at least partially incorporates the spring receptacle (25), and that the fluid channel (15) runs at least in sections radially outward along a direction (19) which is oriented from the first end side (22) to the second end side (23) and is coaxial with respect to a longitudinal axis (4).

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