

Title (en)  
Metering device with hydraulic bushing element

Title (de)  
Dosiervorrichtung mit hydraulischem Ring

Title (fr)  
Appareil de dosage avec une bague hydraulique

Publication  
**EP 1391609 B1 20050601 (EN)**

Application  
**EP 02018660 A 20020820**

Priority  
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Abstract (en)  
[origin: EP1391609A1] The invention relates to a metering device comprising a valve body (12) containing a fluid passage (20) for the pressurized fluid to be dosed, the fluid passage (20) terminating with a metering opening (16), an axially moveable valve needle (22) passing through the fluid passage (20), the valve needle (22) having a first end (24) inside the fluid passage (20), controlling the opening and closing of the metering opening (22), and having a second end (26) inside an actuator chamber (40), the second end cooperating with an actuator assembly (42) in the actuator chamber (40) controlling the axial movement of the needle (22), wherein in operation the pressure in the actuator chamber (40) is smaller than the pressure in the fluid passage (20), and a bushing element (30, 38) for the valve needle (22), hydraulically isolating the actuator chamber (40) and the fluid passage (20). The bushing element is formed by an elastic element (30, 38), hermetically fastened to the valve needle (22) and to the valve body (12). <IMAGE>

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IPC 8 full level  
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Cited by  
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