

Title (en)  
MASTER CYLINDER

Title (de)  
HAUPTZYLINDER

Title (fr)  
MAITRE-CYLINDRE

Publication  
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Application  
**EP 03766364 A 20030730**

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Abstract (en)  
[origin: WO2004012974A1] The invention relates to a master cylinder (1), in particular for a hydraulic braking system, comprising at least one pressure chamber (3) that is configured in a housing (2) of the master cylinder (1) and at least one container bore (4) for accommodating a hydraulic fluid container (5). According to the invention, a valve (6) is provided with a closing body (7, 24), which can be displaced into an open position or a closed position as a result of a prevailing pressure differential between the pressure chamber (3) and the hydraulic fluid container (5). In the open position, the valve (6) permits a flow (S1) of hydraulic fluid from the hydraulic fluid container (5) to the pressure chamber (3) and in the closed position restricts or prevents a flow (S2) of hydraulic fluid in the opposite direction to the hydraulic fluid flow (S1), from the pressure chamber (3) to the hydraulic fluid container (5). To permit the reduction of the free travel of the master cylinder, in addition to the vacuum filling of the braking system, means are provided, which hold the closing body (7, 24) that is subjected to a closing pressure differential, induced by an evacuation that enables the braking system to be vacuum filled, in the open position and which permit the displacement of the closing body (7, 24) into the closed position, when the brakes are actuated.

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