

Title (en)  
HIGH PRESSURE PUMP WITH IMPROVED SEALING

Title (de)  
HOCHDRUCKPUMPE MIT VERBESSERTER DICHTUNG

Title (fr)  
POMPE A HAUTE PRESSION A ETANCHEITE PERFECTIONNEE

Publication  
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Application  
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Abstract (en)  
[origin: WO0075514A1] The invention concerns a pump for pumping a first liquid, called transferred liquid, and comprising a main unit (18) for pumping the transferred liquid actuated by an auxiliary unit (20) pumping a second liquid, called working liquid. The main (18) and auxiliary (20) units are housed in a casing (16) generally cylindrical in shape. The main unit (18) comprises at least two valves (36, 38), for respectively sucking up and delivering the transferred liquid, borne by a valve body (40) housed in the casing (16). Each valve (36, 38) communicates with two chambers, respectively a suction chamber (46) and a delivery chamber (48) for the transferred liquid, defined by opposite surfaces (50, 52) provided in the valve body (40) and the casing (16). Said surfaces (50, 52) comprise two matching shoulders (50E, 52E) pressed against each other so as to form a tight joint plane separating the suction chamber (46) and the delivery chamber (48). The invention is applicable to a high pressure pump for supplying a motor vehicle engine with fuel.

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