

Title (en)
HYDROPNEUMATIC PISTON ACCUMULATOR

Title (de)
HYDROPNEUMATISCHER KOLBENSPEICHER

Title (fr)
ACCUMULATEUR HYDROPNEUMATIQUE À PISTON

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Application
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Abstract (en)
[origin: WO2017220196A1] A hydropneumatic piston accumulator, with an accumulator housing (1) defining a housing longitudinal axis (11), in which a piston (9) is longitudinally movable between two housing covers (5, 7) positioned opposite each other. In the housing (1), the piston (9) separates a working chamber (13) for a compressible medium, such as a working gas, from a working chamber (15) for an incompressible medium, such as hydraulic fluid, and comprises at least a part (55) of a displacement measurement device continuously determining each position of the piston (9) in the housing (1). The invention is characterised in that a rod-like guide (29, 57) is stationarily positioned in the accumulator housing (1) and passes all the way through the piston (9) in each of its displacement positions in the accumulator housing (1), the piston (9) being movably guided therealong until it reaches the stop on one of the two housing covers (5, 7), and in that the piston (9) is sealed against this guide (29, 57) using a sealing device (49, 50).

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