

Title (en)
HYDROPNEUMATIC ACCUMULATOR

Title (de)
HYDROPNEUMATISCHER DRUCKSPEICHER

Title (fr)
ACCUMULATEUR DE PRESSION HYDROPNEUMATIQUE

Publication
EP 1250533 B1 20050518 (DE)

Application
EP 01902324 A 20010117

Priority
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• EP 0100442 W 20010117

Abstract (en)
[origin: US6622755B2] A hydropneumatic accumulator includes a bellows inside the accumulator housing, separating a gas chamber from an oil chamber. The bellows is fastened at one end to the accumulator housing so that the oil chamber is delimited by the inside of the bellows, and is sealed on the other free end by a closing body that is movable according to changes in volume of the gas chamber and of the oil chamber. The hydropneumatic accumulator also includes a valve to enable a hydraulic fluid to flow out of and into the oil chamber or to block the flow of the hydraulic fluid. The valve can be moved into its blocking position by the closing body when the closing body undergoes a movement corresponding to an increase in the volume of the gas chamber that exceeds a predetermined maximum value. The closing body is in the shape of a trough, with its edge located on the open end connected to the free end of the bellows. The trough extends with its lateral wall along the inside of the bellows. The bottom of the trough is configured as a moveable valve element of the valve that controls the flow of hydraulic fluid.

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