

Title (en)  
HYDROPNEUMATIC ACCUMULATOR

Title (de)  
HYDROPNEUMATISCHER DRUCKSPEICHER

Title (fr)  
ACCUMULATEUR DE PRESSION HYDROPNEUMATIQUE

Publication  
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Application  
**EP 01902324 A 20010117**

Priority  
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• EP 0100442 W 20010117

Abstract (en)  
[origin: WO0155602A1] The invention relates to a hydropneumatic accumulator comprising a bellow (19), which, inside the accumulator housing (1), separates a gas chamber (17) from an oil chamber (13) and which is fastened with one end thereof to the accumulator housing (1) so that the oil chamber (13) is delimited by the inside of the bellow (19). Said bellow is sealed on the other free end by means of a closing body (21) that moves according to changes in volume of the gas chamber (17) and of the oil chamber (13). The hydropneumatic accumulator also comprises a valve (31), which enables a hydraulic fluid to flow out of and into the oil chamber (13) or which blocks the flow of said hydraulic fluid. The valve can be transferred into its blocking position by the closing body (21) when the closing body (21) undergoes a movement corresponding to an increase in the volume of the gas chamber (17) that exceeds a predetermined maximum value. Said closing body is provided in the shape of a trough (21) which, with its edge (25) located on the open end (23), is connected to the assigned free end of the bellow (19). The trough (21) extends with its lateral wall (27) along the inside of the metal bellow (19), and the bottom (35) of the trough (21) is configured as a moveable valve element of the valve (31) that controls the flow of hydraulic fluid.

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