

Title (en)
EXPANSION AND PRESSURE CONTROL DEVICE FOR CIRCULATING FLOWS OF LIQUIDS

Publication
EP 0292814 B1 19900131 (DE)

Application
EP 88107742 A 19880513

Priority
DE 3716396 A 19870515

Abstract (en)
[origin: EP0292814A1] 1. Expansion and pressure maintenance apparatus for circulating fluid flows with a closed chamber (22) which can temporarily be brought into communication with a feed line (1) and a return line (5) via lines (9, 10) having valve means (30, 32), so that a portion of the fluid flow passes through the chamber (22), with a supply container (28) substantially open to the atmosphere, which can be temporarily brought into communication with the chamber (22) via a line (31a, 31b) having valve means (30), with a pressure pump (25) for supplying pressure-free fluid in the cycle (2) and with a control unit (47) for controlling the valve means (30, 32) and the pressure pump (25), characterized in that the valve means (30, 32) include a controllable three-way valve (30), which in a first position (I) connects the feed line (1) with the chamber (22), in a second position (II) connects the chamber (22) with the supply container (28) and in a third position (III) connects the supply container (28) with the feed line (1), that the valve means (32) in the line (10) between the container (22) and the return line (5) are controllable and that the valve means (30, 32) are configured as mechanically controllable valves which can be actuated by the control unit (47) via a servomotor (49).

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F24D 3/10

IPC 8 full level
F24D 3/10 (2006.01)

CPC (source: EP)
F24D 3/10 (2013.01); **F24D 3/1008** (2013.01); **F24D 3/1083** (2013.01)

Cited by
NL2025076B1; DE8912549U1; EP0580881A1; EP0902239A3; EP0924472A3; DE29510126U1; EP1505466A3; EP0663570A1; AT401293B; EP3211330A1; BE1023923B1; EP0543285A1; AT399217B; AT2554U1; EP2944884A1; WO2021045620A1; WO03014627A1; US6827091B2; US7171972B2; US7823628B2; EP1855060B1

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