

Title (en)
Safety valve arrangement

Title (de)
Hydraulische Sicherheitsschaltung

Title (fr)
Arrangement des clapets de sécurité

Publication
EP 0641919 B1 19970604 (DE)

Application
EP 94112814 A 19940817

Priority
DE 4330038 A 19930906

Abstract (en)
[origin: EP0641919A1] In a hydraulic safety valve arrangement for a hydraulically controlled and/or regulated machine or plant, especially for the purpose of rapid shut-down of a gas or steam turbine, in which safety valve arrangement (1) a plurality of hydraulic valves (15a, b; 16a, b), electrically actuated by means of a solenoid (18a, b; 19a, b) and closed in the energised condition of the solenoid, are arranged between a pressure line (8) and a pressure relief line (17) in such a way that on the one hand a through connection between the pressure line (8) and the pressure relief line (17) can be established in the event of a scheduled cut-out of one or more valves and so that, on the other hand, in the event of some of the valves failing, the function of the remaining valves can be assumed, an improved reliability is achieved in that there are at least four hydraulic valves (15a, b; 16a, b) which in twos (15a, b and 16a, b) are respectively connected in parallel in a valve-pair, and that the valve-pairs (15a, b; 16a, b) connected in parallel are connected in series between the pressure line (8) and the pressure relief line (17). <IMAGE>

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CPC (source: EP)
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Cited by
US7828008B1; CN106414907A; EA014134B1; CN102549273A; US7322270B2; EP1630425A3; DE102005040039A1; EP1757817A3; DE102005040039B4; US7409965B2; US9903221B2; US10480346B2; US7444920B2; GB2425369A; GB2468431A; GB2468431B; GB2425369B; CN106470935A; WO2017125247A1; WO2008048290A1; WO2011003506A1; US7874241B2

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