

Title (en)
HYDRAULIC CONTROL DEVICE

Title (de)
HYDRAULISCHE STEUERANORDNUNG

Title (fr)
SYSTEME DE COMMANDE HYDRAULIQUE

Publication
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Application
EP 98919168 A 19980327

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• EP 9801809 W 19980327

Abstract (en)
[origin: US6250202B1] A hydraulic control arrangement which has a directional control valve, a hydraulic pump and a two-way cartridge valve constructed as a seat valve. The directional control valve is connected to an inlet line and to a discharge line leading to a tank. Leading off from it is a load line leading to a hydraulic load. The hydraulic pump draws pressure medium from a tank and discharges it into the inlet line. The two-way cartridge valve is arranged in the inlet line and, in a closed position, isolates a second inlet line section leading off from the latter to the directional control valve from a first inlet line section running between the two-way valve and the hydraulic pump. A control piston of the two-way cartridge valve has an annular opening surface exposed to the pressure in the first inlet line section, a central circular opening surface exposed to the pressure in the second inlet line section, and a closing surface, which can be subjected to the pressure in the first inlet line section via a pilot valve in a first position of the latter and can be relieved from the pressure to the tank via the pilot valve in a second position of the latter. The two-way cartridge valve closes when an emergency off facility is triggered. To satisfy particularly high safety requirements, the invention makes provision for the second inlet line section to be relieved to the tank via the pilot valve in the first position of the latter.

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