

Title (en)

Safety device for hydraulic circuits.

Title (de)

Sicherungsvorrichtung für hydraulische Systeme.

Title (fr)

Dispositif de sécurité pour circuits hydrauliques.

Publication

EP 0019597 A2 19801126 (EN)

Application

EP 80830027 A 19800506

Priority

IT 6806179 A 19790518

Abstract (en)

A safety device (24) is provided for use, for example, in conjunction with a double-acting hydraulic actuator (18) operating a lifting arm. The safety device (24) is interposed between the actuator (18) and the fluid line (20) along which fluid is supplied to raise the arm. In the event of accidental rupturing of this fluid line (20), the safety device (24) operates to prevent uncontrolled lowering of the arm. The device (24) has a working section which comprises a non-return valve (36) inserted in said line (20) such as to normally only allow fluid into the actuator (18), and control means selectively operable to inhibit the non-return valve (36) and permit fluid to exit from the actuator (18). The control means is itself controlled from a controlling section of the device (24) in such a manner that the control means only operates in the presence both of a control pressure signal (Ps) indicating that the arm is to be lowered, and of normal operating pressures in said line (20).

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