BIJUR DELIMON INTERNATIONAL

Product description

Switching device SG-A

APPLICATION

The switching device SG-A is used as differential pressure switch in dual-line centralized lubrication system. When the differtial pressure is 50 bar and/or 100 bar, it releases a pulse for the reversion of the directional control valve or for the monitoring of the system.

PRODUCT CHARACTERISTICS

- Switching pressure difference 50 or 100 bar
- Working pressure 400 bar

DESIGN

The switching device SG-A with ram, enclosed consists of a housing with a metallically sealing piston, which is held in its mid-position by means of two compression springs. Furthermore, it consists of a limit switch, which is fixed in its position by means of a safety plate, on which these parts are fixed.

FUNCTION

With lubricating cycle 1, lubricant is supplied to main line A. Main line B is relieved. Due to the pressure build-up in main line A, the piston is deísplaced downwards against the springiness of the lower compression spring. When the differential pressure between the two main lines is approx. 50 bar and/or 100 bar, the contacts 1 and 2 are closed via the piston at the limit switch. Due to this pulse, the 4/2-way valve is reversed via the electric control of the system.
The reversion of the 4/2-way valve causes lubricating cycle no. 2 to start, and lubricant is supplied to main line B while main line A is relieved. Due to the pressure build-up in main line B, the piston is displaced upwards against the springliness of the upper compression spring. When the pressure difference between the two main lines is approx. 50 bar and/or 100 bar, the contacts 3 and 4 are closed via the piston at the limit switch, and a new reversion process is initiated.