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

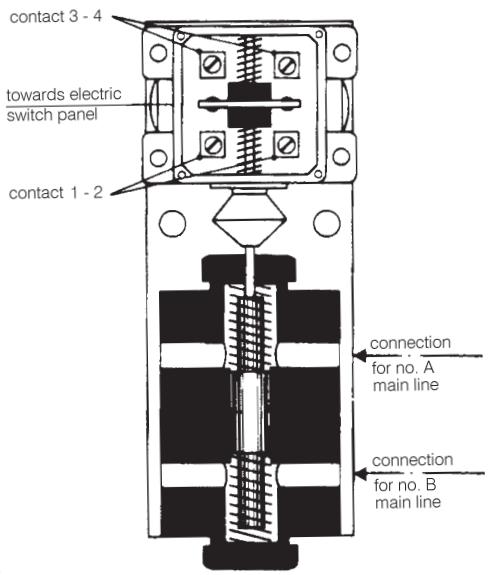
- Switching pressure difference 50 or 100 bar
- Working pressure 400 bar

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.



A. TYPE OF APPLIANCE	Code
	SGA

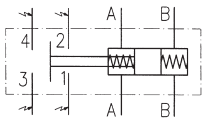
B. SWITCHING PRESSURE DIFFERENCE	Code
50 bar	05
100 bar	10

C. REVISION	Code
Status A	A

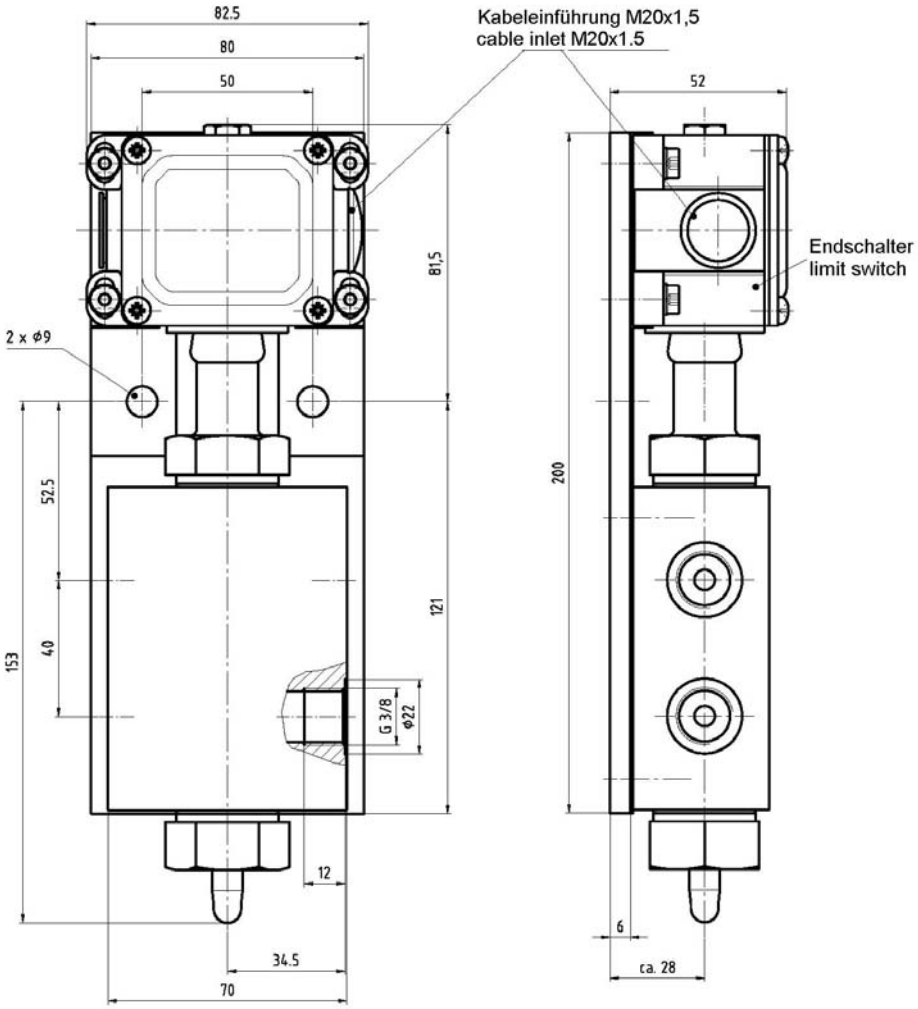
D. ACCESSORIES	Code
without	00

SPECIFICATION

Switching pressure difference : 50 or 100 bar
Working pressure : max. 400 bar
Output volume : 0.7 cm^3
Rated voltage : max. AC 240 V
Contact rating : min. 10 mA at DC 24 V
Contact rating : max. 3 A
Power rating at 500 V : . max. 7500 VA
Protection system : IP 65
Suitable lubricants on mineral oil basis:
Lubricant greases NLGI class 000 up to 3 DIN 51818 (51825)
Oils with a viscosity from 190 mm^2/s at operating temperature
Synthetic lubricants on request
Ambient temperature : between - 20°C and + 80°C
Installation position : optional
Weight : 3 kg
Switching diagram:



SPECIFICATION (Continuation)



EXAMPLE OF ORDER

Code							
S	G	A	0	5	A	0	0

Type of appliance SG-A	Code: SGA
Switching pressure difference 50 bar	Code: 05
Revision Status A	Code: A
Accessories without	Code: 00