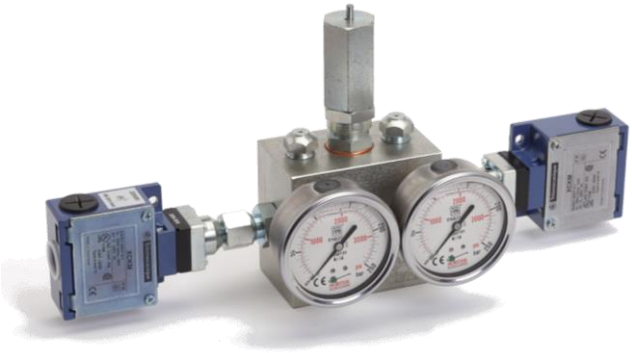
End-Of-Line Switch

Serie **2215200**

Centralized greasing system » End-Of-Line Switch

Applications

Pressure control in dual-line grease or air/oil systems and switch over to the other line.



Features

- Pressure control via over-pressure inverter.
- Pressure control with adjustable spring.
- The switching mechanism is built in a robust steel housing.

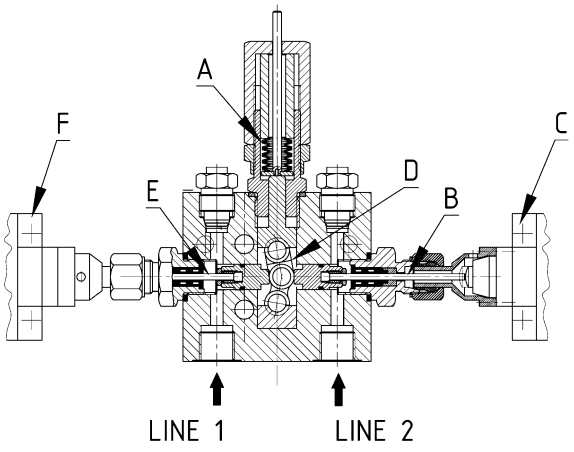
Description

The end-of-line controls are very important devices in a dual-line grease or air/oil system because they are the only component capable of detecting the correct operation of the pump and/or the circuit tubing and piping.

Principle of operation and design

The end-of-line switch is directly linked to the proper operation of the lubrication cycle in a dual-line system.

A lubrication cycle consists of the following operating sequence: the pump sends lubricant to line 1 once the main line-selection electro-valve shifts, since both lines are connected to the end-of-line switch this device will ultimately get part of the lubricant. Once the pressure at the end-of-line switch overcomes the spring (A) force, piston (B) moves and enables the proximity switch (C); which in terms sends a signal to the main control panel to shift the main line-selection electro-valve to send lubricant through line 2. Line 1 then starts de-pressurizing and the lubricating cycle starts on line 2. The link (D) starts moving in the other direction until the piston (E) enables the proximity switch (F) and the control panel then starts the pre-programmed pause timer.



Ilustration principle of operation

The end-of-line switch allows sending an alarm or stopping the equipment when the pressure differential between the two lines is lower than 50 kg/cm^2 (711 psi).

The spring (A) allows pressure to be regulated generally from 20 to 100bar depending on secondary tubing length between dosing unit and lubrication point, as well as grease hardness and room temperature

Installation

For proper operation of a dual-line grease or air/oil system, the end-of-line pressure swtich needs to be installed at the end of line, before the last grease or air/oil block. This insures that there is always grease or oil passingthrough the end-of-line switch.

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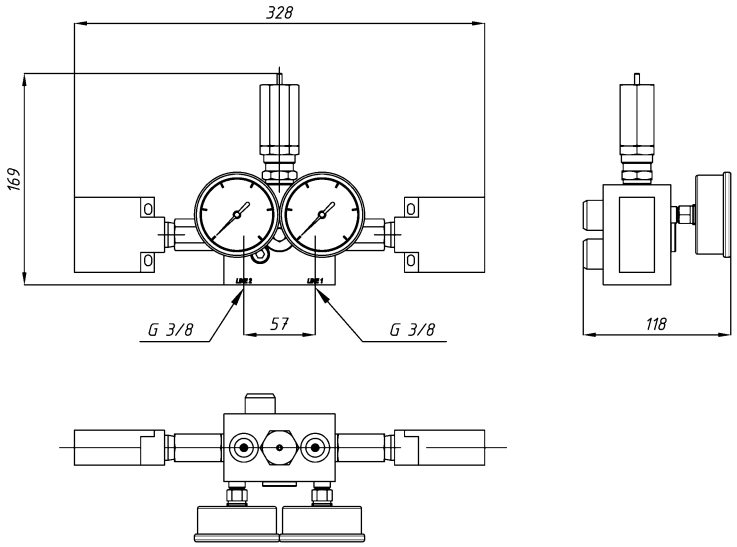
Specifications

Proximity Switch	Telemecanique Ref. XCK-M110 H29
Set-Point Pressure End-Of-Line Switch	50 kg/cm² (711 psi)
Pressure Gauge	Nortek Ref. 2034141 0 - 400 bar
Temperature	- 25 °C + 70 °C (-13°F +158°F)
Weight	4,8 kg (10,6 lbs.)
Qualities	Electroplated coating of zinc ISO 2081 – Fe/Zn12/A

Dimensions

Dimensions in mm.



Ordering information

Specifications	Reference
End-of-line switch	2215200.000

Technical Information and Electrical Connection Diagram

Contacts	1NC + 1NO
Electrical protection	IP66 – IP67
Intensity	AC 15 240 V 3 A ith 10 A
Breaking capacity	6 KV for 500 V
Cable entry	Pg 11
Standard	IEC/EN 60947-5-1
	EN 60204-1
Frequency	50/60 Hz
Connection	On terminals, bolts with safety pins
Certifications	CCC
	CSA
	UL

Two poles
Snap action
NC+NO