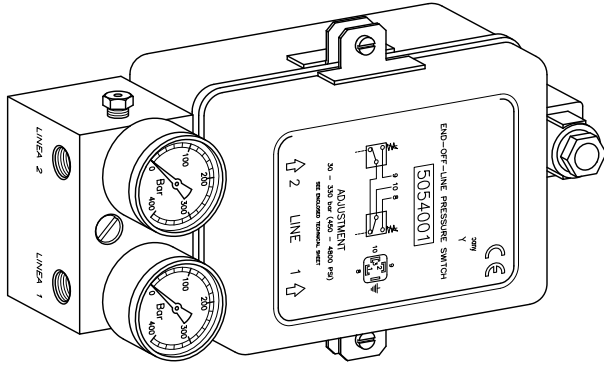


CODICE  
5054001÷  
5054003  
5054011  
5054014

CODICE  
5054001÷  
5054003  
5054011  
5054014



| PRESSURE SWITCH | EL. CONNECTIONS          | PRESSURE REG.                  |
|-----------------|--------------------------|--------------------------------|
| 5054001         | 3 PIN CONNECTOR + GROUND | MIN 30 bar<br>MAX 330 bar<br>* |
| 5054002         | TERMINAL BOARD           |                                |
| 5054003         | 6 PIN CONNECTOR + GROUND |                                |
| 5054011         | 3 PIN CONNECTOR + GROUND |                                |

MICROSWITCH CHARACTERISTICS:  
380 V a.c. 20 A  
MECHANICAL LIFE 10x10<sup>6</sup> CYCLES  
TEMPERATURE FROM -20 A +85°C

\* REGULATION UP TO 100 bar IS POSSIBLE REMOVING THE EXTERNAL SPRING FROM THE REGULATOR

**GENERALITY:**

THE END OF LINE PRESSURE SWITCH IS INSTALLED AT THE END OF THE MAIN LINE OF A DUAL LINE SYSTEM TO MONITOR CORRECT FUNCTIONING OF THE SYSTEM.

IT MAKES IT POSSIBLE TO SEND AN ALARM SIGNAL OR TO STOP THE MACHINE WHEN LINE PRESSURE FAILS TO REACH THE SET CALIBRATION VALUE.

IN THE CASE OF DUAL LINE LUBRICATION SYSTEMS WHERE AN ELECTRICAL OR ELECTRO-PNEUMATIC INVERTER IS USED TO SWITCH FROM LINE 1 TO LINE 2, THE END OF LINE PRESSURE SWITCH CONTROLS THIS VISION SENDING A SIGNAL TO THE ELECTRICAL CONTROL EQUIPMENT WHEN THE REQUIRED CALIBRATION PRESSURE IS REACHED.

THE PRESSURE SWITCH CONSISTS OF A STEEL BLOCK FOR CONNECTION OF THE TWO LINES (RP 1/4 UNI ISO 7/1 FITTINGS) TWO GAUGES, TWO AIR DUMP VALVES, TWO PRESSURE REGULATORS, TWO MICROSWITCHES.

THE PRESSURE SWITCH IS FURNISHED IN TWO VERSIONS FOR TWO WORKING ENVIROMENTS.

CODE 5054001

ENCLOSED IN A METAL CASE FOR PROTECTION AGAINST DAMP AND DUST. COMPLETE WITH 3 CONTACT CONNECTOR+GROUND

CODE 5054002

AS ABOVE BUT FURNISHED IN A WATERPROOF BOX WITH PROTECTION RATING IP 55.

CODE 5054003

SAME STRUCTURE AS THE 5054001 BUT WITH A MULTIPLE 6 CONTACT CONNECTOR GROUND USED IN PARTICULAR TO CONTROL VAST LUBRICATION LINES. TWO SWITCHES LOCATED AT THE ENDS OF THE SYSTEM ARE CONNECTED IN SERIES. THIS PROMOTES IMPROVED SYSTEM CONTROL AND INFORMING THE ELECTRICAL EQUIPMENT OF ANY ALARMS.

**OPERATION:**

WHEN THE PRESSURE OF THE LUBRICANT GENERATED BY THE PUMP IN THE LINE CONNECTED AT THAT MOMENT (THE OTHER LINE IS DISCHARGING) REACHES THE CALIBRATION VALUE SET ON PRESSURE ADJUSTEMENT VALVE "1" AT END OF THE LINE, THE SEQUENCE OF OPERATIONS IS CARRIED OUT.

HAVING OVERCOME THE RESISTANCE OF SPRINGS AND "4" THE ROD "1" ACTIVATES THE EXCHANGED SWITCH OF MICRO "8"

THE SIGNAL GENERATED BY MICRO "8" IS SENT TO THE ELECTRICAL CONTROL EQUIPMENT OF THE SYSTEM. ALTERNATEPRESSURIZATION OF THE LINE AND THE OTHRE CAN BE CECKED VISUALLY OBSERVING THE SPECIFIC LIGHTS.

A RED ALARM LIGHT OR AN AUDIBLE SIGNAL INDICATES FAILURE TO GENERATE TE SIGNAL BY MICRO "8".IN LUBRICATION SYSTEMS WITH ELECTRICAL INVERTER THE SGNAL GENERATED BY MICRO "8" COMMANDS INVERSION OF THE CIRCULATION OF THE LUBRICANT FROM ONE LINE TO ANOTHER.

TE NEXT INVERSION COMMAND WILL BE GIVEN ONCE LINE PRESSURE IN THE PRESSURIZATION PHASE HAS REACHED THE SET CALIBRATION VALUE AND ONCE THE PRESSURE OF THE OTHER LINE HAS DROPPED AT THE SAME TIME BY A VALVE EQUAL TO OR HIGHER THAN THE FUNTIONING DIFFERENTIAL THIS IS TO GUARANTEE CORRECT SUPPLY OF LUBRICANT TO THE METERING VALVES.

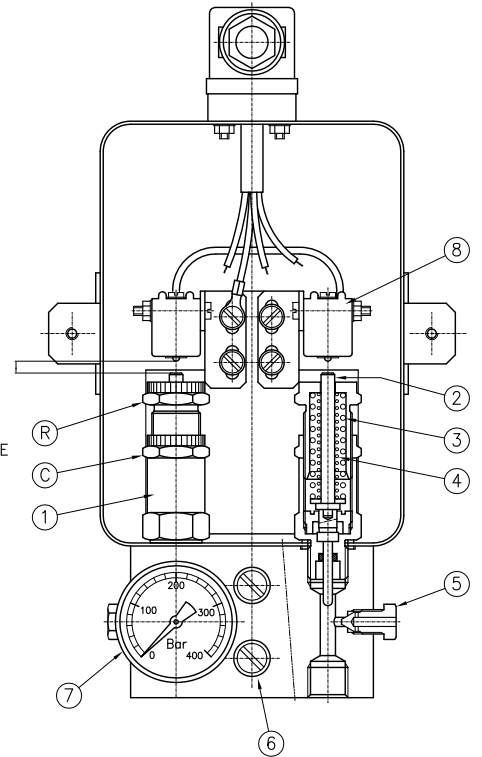
FUNCTIONNING DIFFERENTIAL: THE DIFFERENCE IN PRESSURE REQUIRED TO ASSURE SWITCHING OF THE CONTACTS OF THE MICROSWITCH. THE VARIOUS VALUES DEPEND ON THE DISTANCE "X" BETWEEN ROD "2" IN THE IDLE POSITION AND THE PUSH BUTTON OF MICROSWITCH "8".THIS DISTANCE IS USUALLY 33mm TO INCREASE THE DIFFERENTIAL BY APPROX 6 BAR, DISTANCE "X" MUST BE REDUCED BY APPROX 3mm.

**PRESSURE SWITCH CALIBRATION:**

THIS OPERATION SHOULD BE CARRIED OUT PREFERABLY ON THE BENCH IF ALL THE CORRECT DATA ABOUT THE PLANT ARE AVAILABLE.

- 1-BACK OFF SET NUT "C" OF THE REGULATOR
- 2-TURN ADJUSTEMENT SCREW "R" UNTIL THE CALIBRATION REQUIRED IS OBTAINED APPROX 5% LESS THAN THE SETTING OF THE INVERTER (USE THE READOUT OF THE ASSOCIATED GAUGE WITH THE PUMP OPERATING).
- 3-DRAW UP SET NUT "C"
- 4-REPEAT THE OPERON ON ADJUSTEMENT VALVE "1" OF THE OTHER LINE.

NOTE:WHEN ON SYSTEMS ON WHICH THE PRESSURE DOES NOT EXCEED 100 BAR INTERNAL SPRING "4" ONLY CAN BE USED,REMOVING THE OTHER.



| SPARES |         |                            |
|--------|---------|----------------------------|
| 1      | 8054001 | PERESSURE REGULATION VALVE |
| 2      | 8127052 | MICRO TRIP ROD             |
| 3      | 8214125 | EXTERNAL SPRING            |
| 4      | 8214124 | INTERNAL SPRONG            |
| 5      | 8241008 | AIR VENT SCREW             |
| 6      | 9241746 | M6 LOCKING SCREW           |
| 7      | 9300041 | 0-100 BAR SCALE GAUGE      |
| 8      | 9213018 | MICROSWITCH                |
|        | 9213058 | MICROSWITCH (UL,CCC,GOST)  |

3320134 - 01/09

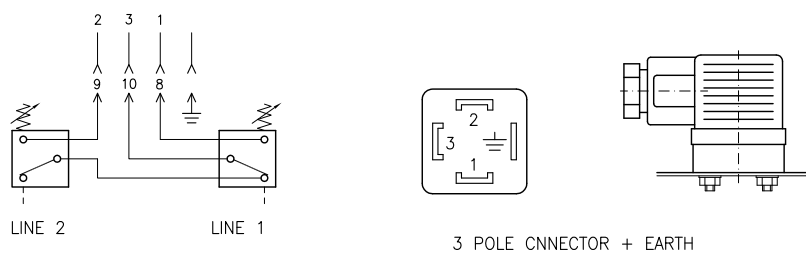
3320134/1 - 01/09

CODICE  
5054001÷  
5054003  
5054011  
5054014

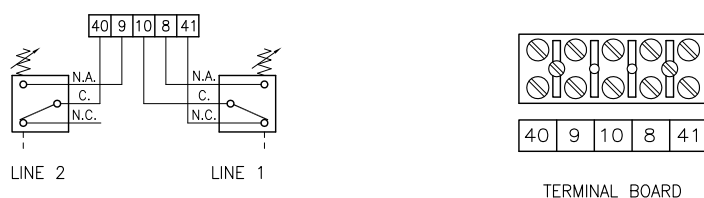
CODICE  
5054001÷  
5054003  
5054011  
5054014

ELECTRICAL CONNECTIONS OF THE THREE PRESSURE SWITCH TYPES

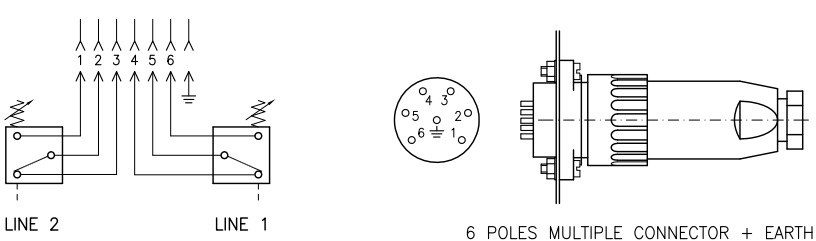
ELECTRICAL CONNECTION FOR PRESSURE SWITCH PART NO.5054001



ELECTRICAL CONNECTION FOR PRESSURE SWITCH PART NO.5054002

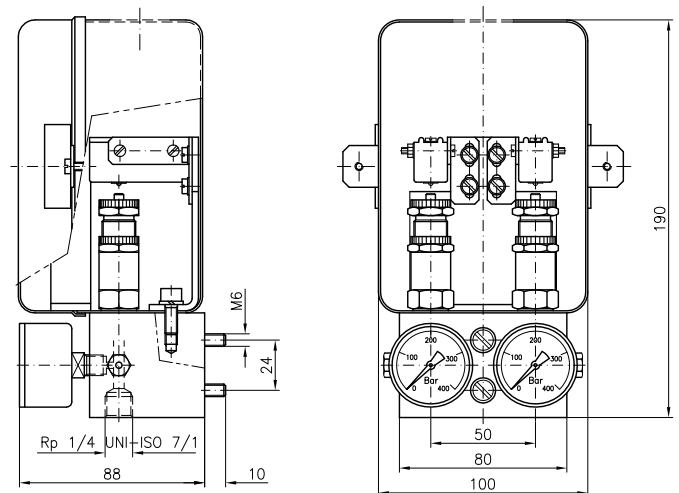


ELECTRICAL CONNECTION FOR PRESSURE SWITCH PART NO.5054003



FIXING DIMENSIONS AND OVER-ALL DIMENSIONS

PRESSURE SWITCH TYPE 5054001, 5054003 E 5054011



BOX PRESSURE SWITCH PART NO.5054002

