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Automatic pneumatic pump block system

K 500007













MORKING PRINCIPLE

The phenomenon of cavitation in pumps:

Cavitation is a physical phenomenon involving hydraulic pumps.

Damage due to cavitation or lack of product An instantaneous collapse pressure of can cause serious damage to the pump.

The main complications are:

- Deterioration in pump performance due to turbulence caused by cavitation
- Excessive pump vibration, which causes noise
- Irreversible damage to the components inside the pump

Prevention

The phenomenon of cavitation due to air bubbles or due to lack of product is of great importance and can cause critical issues for the functioning of a hydraulic circuit.

To avoid damaging the pump, LARIUS has developed an automatic system that stops the pump from operating if the pressure in the pumping circuit collapses. The system acts pneumatically and directly on the supply of the pump supply air and should be installed wherever pumping system monitoring by operators is not constant or is absent.

B USE

OPERATION WITHOUT AUTOMATIC PUMP BLOCK

With the selector (1) in "EXC" (excluded) position, the pump normally operates continuously even without product, without the intervention of the automatic pump block.

The "EXC" position is used to perform the first product loading procedure

inside the pump with relative bleeding of air in the pumping system, or when it is necessary to replace an empty drum with a full one.



RESET

If the pump stops due to intervention of the "automatic pump block system", you will need to identify and resolve the problem that caused the block and then proceed to "Reset" by pressing the button (3).



OPERATION WITH AUTOMATIC PUMP BLOCK

Once the product loading and air bleeding procedure has been completed inside the pumping system, set the selector (1) to "INC" (included).

In this case, if the pump turns idle due to cavitation or due to lack of product, the "automatic pump block system"

intervenes, interrupting the flow of air supply to the pump, stopping it immediately. This stop is indicated by a red light (2) on the panel.



CALIBRATION OF THE "AUTOMATIC PUMP BLOCK SYSTEM" BY MEANS OF THE REGULATOR (4) IS CARRIED OUT BY LARIUS DURING THE TESTING PROCEDURE PHASE.

CHANGING THE SET VALUES IS PROHIBITED.

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© DESCRIPTION OF THE EQUIPMENT



POS	Description
1	Selector INC - EXC
_ 2	Indicator light

POS.	Description
3	"Reset" Button
4	Manostat calibration screw

APPLICABLE ON THE FOLLOWING PUMPS:





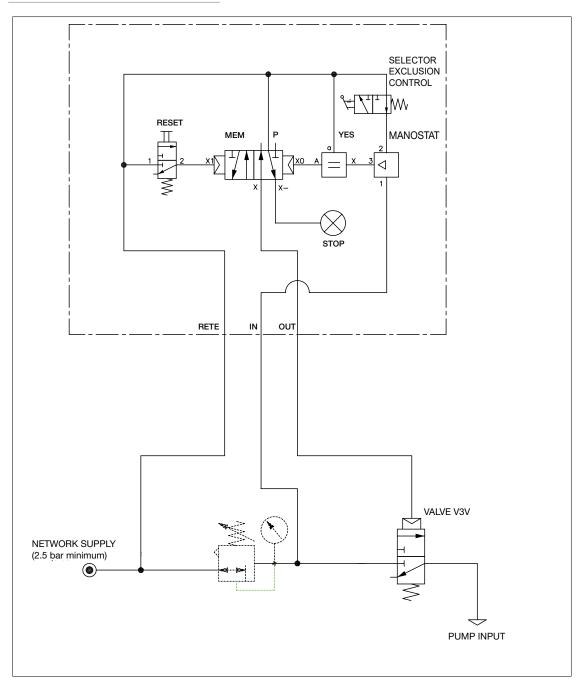






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D PNEUMATIC DIAGRAM





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