ED. 04 - 10/2023

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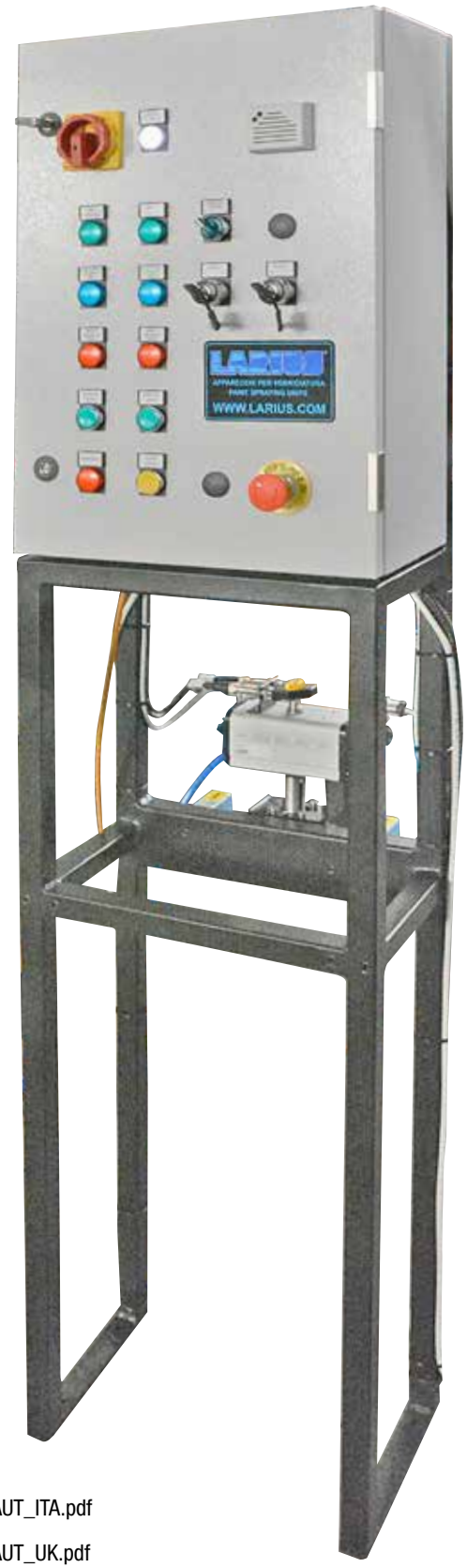
Manuale Cod. 150187

INSTRUCTION MANUALL

AUTOMATIC CHANGE SYSTEM AS THE DRUM PRODUCT RUNS OUT

Cod. 500006



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This manual is to be considered as an English language translation of the original manual in Italian. The manufacturer shall bear no responsibility for any damages or inconveniences that may arise due to the incorrect translation of the instructions contained within the original manual in Italian.

Due to a constant product improvement programme, the factory reserves the right to modify technical details mentioned in this manual without prior notice.

AUTOMATIC CHANGE SYSTEM AS THE DRUM PRODUCT RUNS OUT

INDEX

WE ADVISE THE USE OF THIS EQUIPMENT ONLY BY PROFESSIONAL OPERATORS.
ONLY USE THIS MACHINE FOR USAGE SPECIFICALLY MENTIONED IN THIS MANUAL.

Thank you for choosing a **SAMOA** product.
As well as the product purchased, you will receive a range of support services enabling you to achieve the results desired, quickly and professionally.

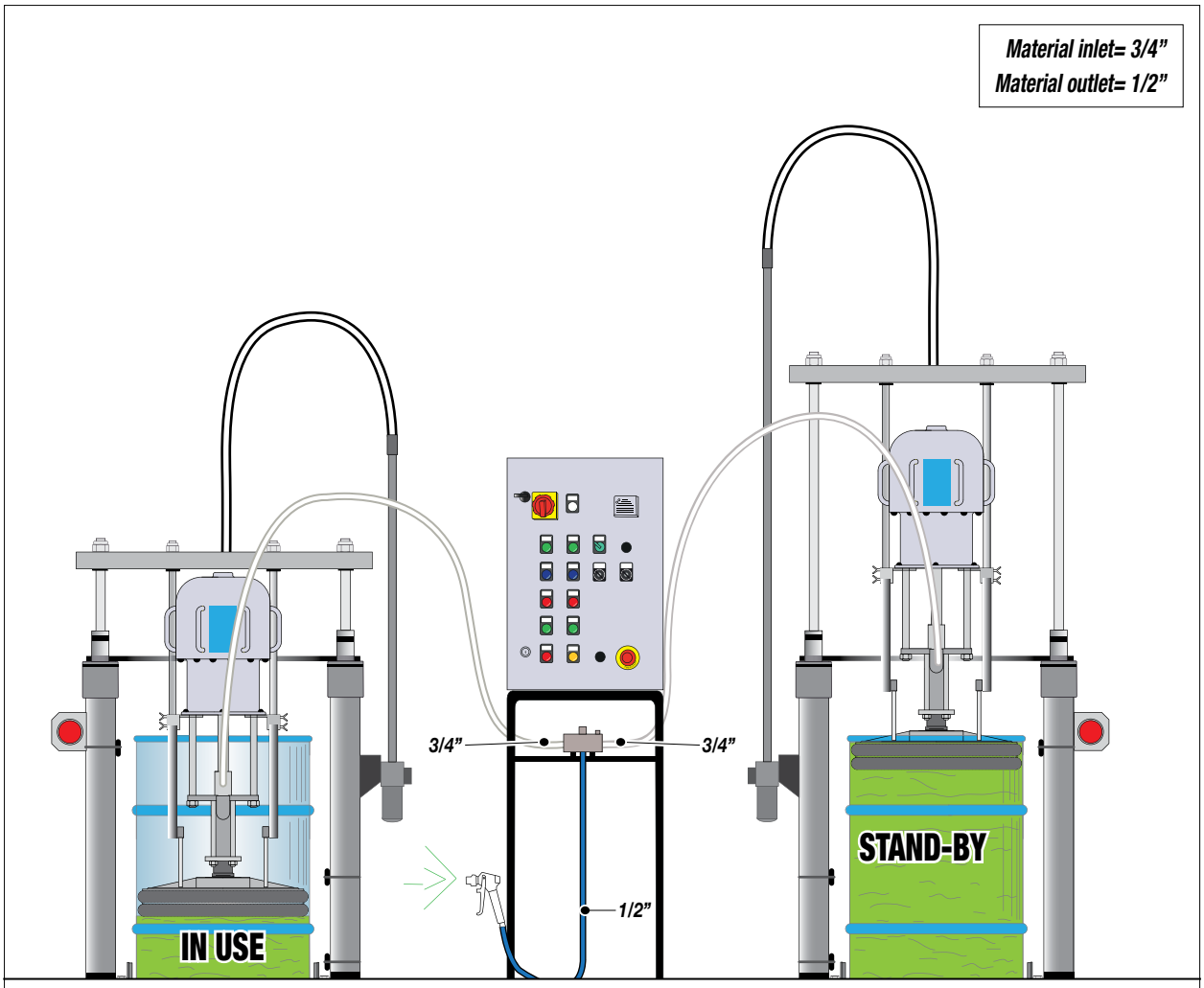
A WORKING PRINCIPLE

The automatic drum change system is installed together with two hoists of any size equipped with different types of pumps.

When the product in a drum runs out, the system guarantees the passage from the drum used to the one in ***stand-by*** mode, thus allowing a continuous dosing process without interruptions.

The transition from the ***stand-by*** mode to that of use takes place thanks to the sensors placed on the lifting cylinder of each hoist that are able to recognize the position of the pressing plate and, therefore, the conditions of the level of the product contained inside the drum.

The operator must first load the drum that has run out, drain the pump and the circuit and press the start button that enables the exchange condition (*See Section titled "Control Panel"*).



Hoist 1 - IN USE

Working position of the hoist 1 as long as there is product in the drum

Automatic drum change system

When the product in the hoist 1 is exhausted, the system automatically switches to use the hoist 2.

Hoist 2 - IN STAND-BY

Stand-by position of the hoist 2.

Fig. 1A

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B CONTROL PANEL

The control panel (**1**) is positioned on the door of the electrical cabinet of the drum change system. It consists of buttons, selectors, warning lights and acoustic alarms; these are controls used directly by the operator during start-up, operation and stopping of the machine. Each individual operational control can be identified by means of a plate that indicates its specific function in the system.

MAIN CONTROLS OF THE AUTOMATIC DRUM CHANGE SYSTEM

Fig. 1B

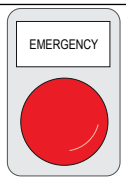
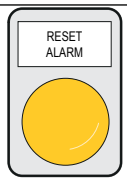
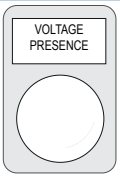
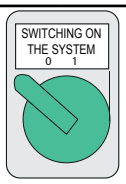
Pos.	Function key	Description
2		**GENERAL SWITCH** The key must be turned to switch on the system
3		**PANEL OPENING LOCK** The keys must be turned to open the door of the control panel
4		**EMERGENCY** Light indicator: red The light indicator switches on when there is a system alarm
5		**RESET ALARM** Button: yellow The button must be pressed to silence the acoustic alarm that warns that one of the drums is empty.

Fig. 2B

Pos.	Function key	Description
6		**VOLTAGE PRESENCE** Light indicator: white The light indicator switches on when the operator turns the main switch to turn on the panel of the automatic drum change system.
7		**ACOUSTIC ALARM** The alarm buzzer sounds when there is a system emergency or when the drum of the pump used runs out, thus signaling the need for the operator intervention.
8		**SWITCHING ON THE SYSTEM 0/1** Key The operator must turn the key to position 1 to activate the automatic drum change system and to position 0 to disconnect it.
9		Button: red on a yellow base Pressing it stops the machine instantly

DESCRIPTION OF FUNCTIONS RELATED TO THE HOIST / PUMP 1

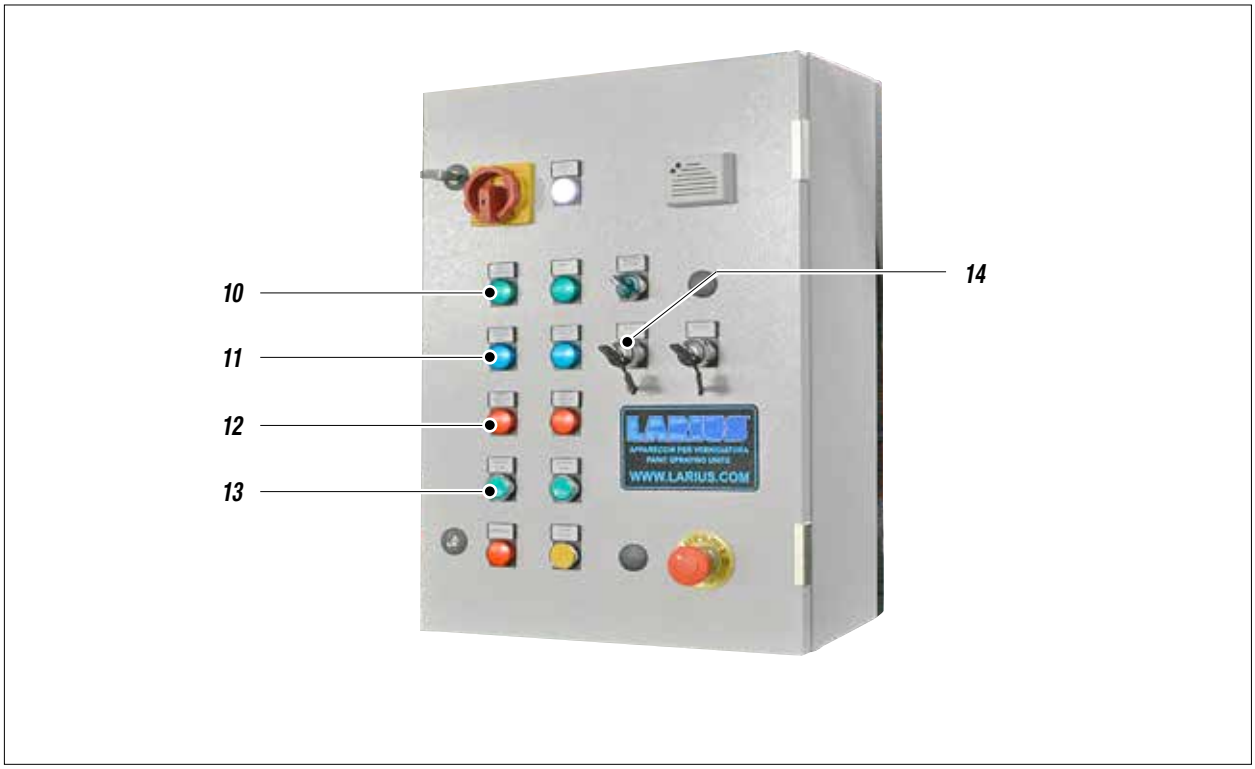
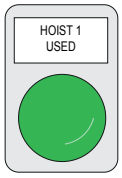
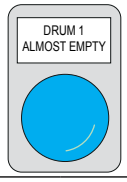
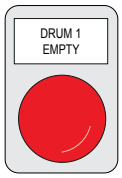
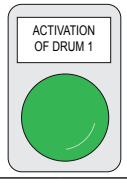
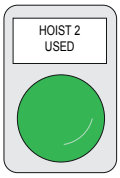
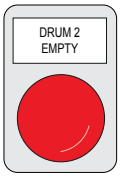
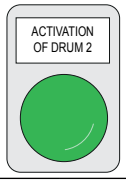


Fig. 3B

Pos.	Function key	Description
10		**HOIST 1 USED** Light indicator: green When the light indicator switches on, it indicates that the pump located on the hoist 1 is running
11		**DRUM 1 ALMOST EMPTY** Light indicator: blue When the light indicator switches on, it indicates that the drum placed on the hoist 1 is almost empty
12		**DRUM 1 EMPTY** Light indicator: red and acoustic alarm When the light indicator switches on and the acoustic alarm is working, it indicates that the drum placed on the hoist 1 is empty. Therefore, the operator must replace the drum after resetting the alarm (see the relevant button). In the meantime, the system has activated the hoist 2.
13		**ACTIVATION OF DRUM 1** Button: green The button is pressed by the operator after the drum loading operations on the hoist 1 have been completed. If the button is not pressed even when the drum is loaded, the drum will not be able to start automatically.
14		**PUMP 1 0/1** Selector of the operation The operator must mantain the key in position 1 to drain the pump until the end of the operation.

DESCRIPTION OF FUNCTIONS RELATED TO THE HOIST / PUMP 2

Fig. 4B

Pos.	Function key	Description
15		**HOIST 2 USED** Light indicator: green When the light indicator switches on, it indicates that the pump located on the hoist 2 is running
16		**DRUM 2 ALMOST EMPTY** Light indicator: blue When the light indicator switches on, it indicates that the drum placed on the hoist 2 is almost empty
17		**DRUM 2 EMPTY** Light indicator: red and acoustic alarm When the light indicator switches on and the acoustic alarm is working, it indicates that the drum placed on the hoist 2 is empty. Therefore, the operator must replace the drum after resetting the alarm (see the relevant button). In the meantime, the system has activated the hoist 1.
18		**ACTIVATION OF DRUM 2** Button: green The button is pressed by the operator after the drum loading operations on the hoist 2 have been completed. If the button is not pressed even when the drum is loaded, the drum will not be able to start automatically.
19		**PUMP 2 0/1** Selector of the operation The operator must mantain the key in position 1 to drain the pump until the end of the operation.

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C USE AND OPERATION

Preparation of the drums

- The operator first of all prepare the drums for the hoist 1 and hoist 2 containing the product to be used for dosing in the system (*see Fig. 1C*) and loading onto the hoists.

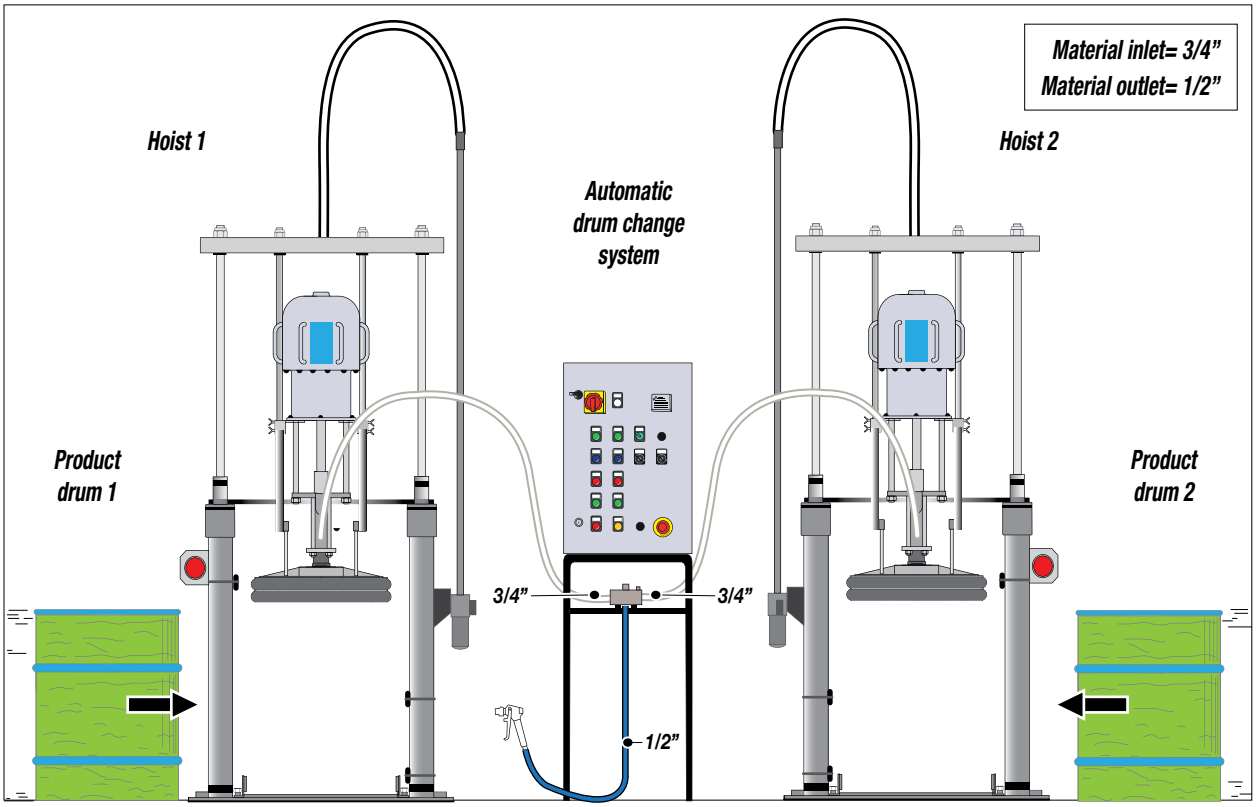

Fig. 1C

Drum loading and pump drain

- Subsequently, the drums are loaded on the hoists (*see Fig. 2C*) and the pressing plates are inserted into the drums.
- The operator then drains the pumps by keeping the selectors **(1)** and **(2)** in position 1.

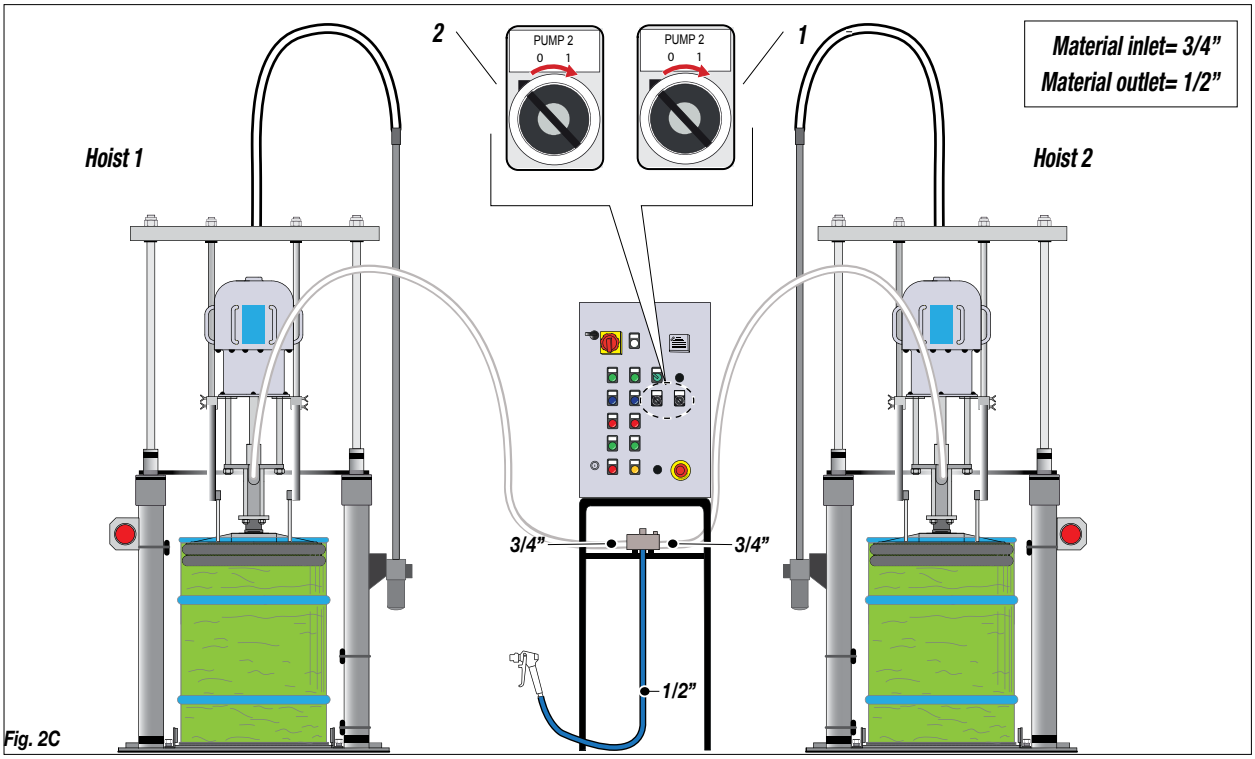

Fig. 2C

Switching on the control panel and activating the hoist

- The system is turned on through the control panel by activating the main switch (**3**) and the system key (**4**).
- The operator initially presses the start button of the drum with which he/she intends to start operations (*i.e.* (**5**)) and then the other button (**6**). In this way the hoist 1 can be used and will reserve the hoist 2 for the time when the drum 1 runs out. **This aspect is essential since, in case of failure to activate both the start buttons (*even with the drum loaded*), the system will not be able to proceed with the automatic drum change when the product runs out.**

Fig. 3C

- On the control panel, the LED (**7**), corresponding to hoist 1, lights up indicating that pump 1 located on hoist 1 is used.

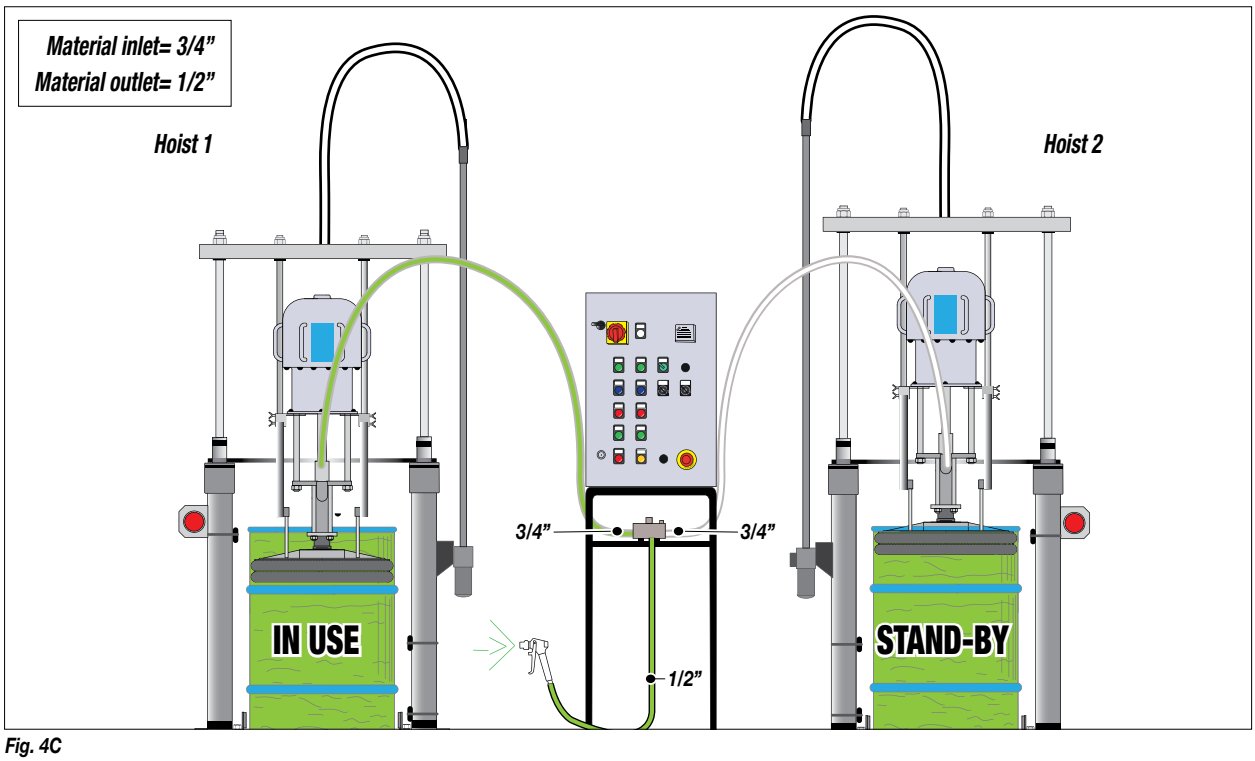

Fig. 4C

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Product running out

- When the product in the drum 1 begins to run out, the sensor (**8**) located on the lifting cylinder of the hoist 1 detects the lowering of the level that is signaled on the control panel by the blue lamp lighting up (**9**).

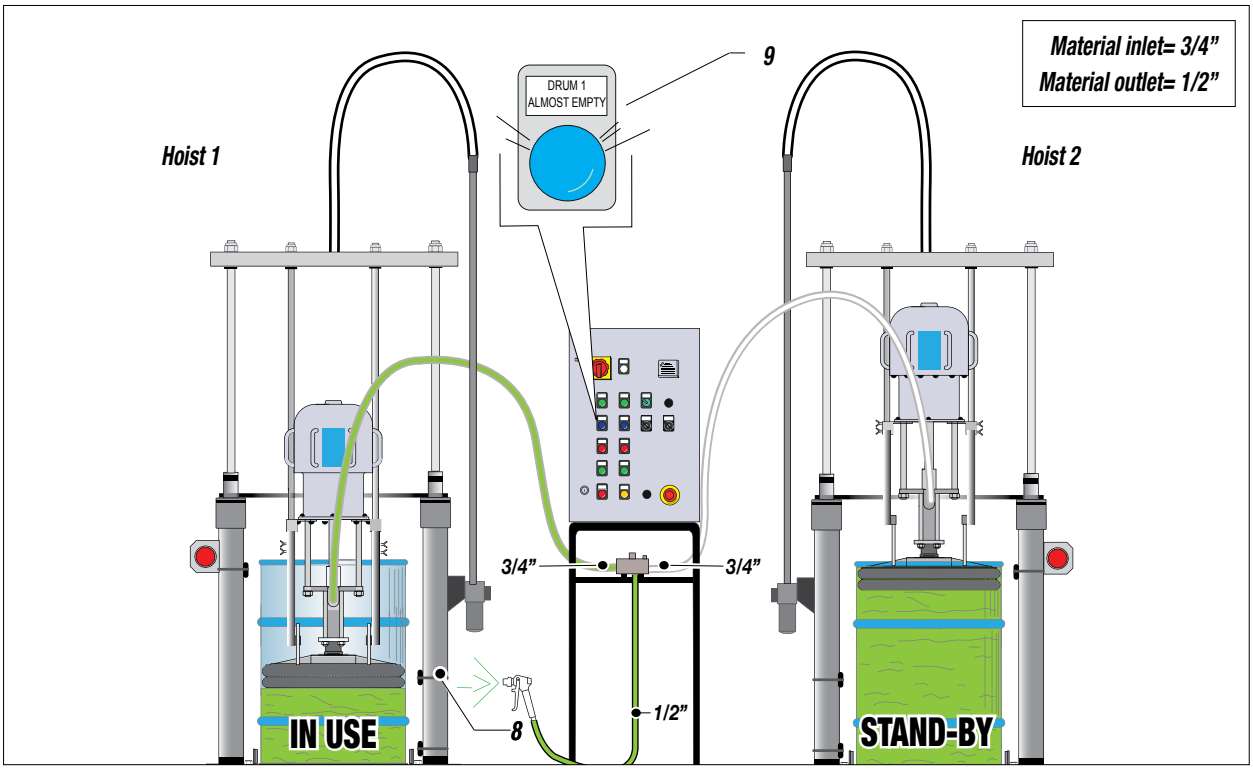

Fig. 5C

Product run out

- When the product in the hoist 1 drum runs out, the sensor (**10**) located on the lifting cylinder of the hoist 1 detects the lack of product with the consequent lighting of the red lamp (**11**) on the control panel.

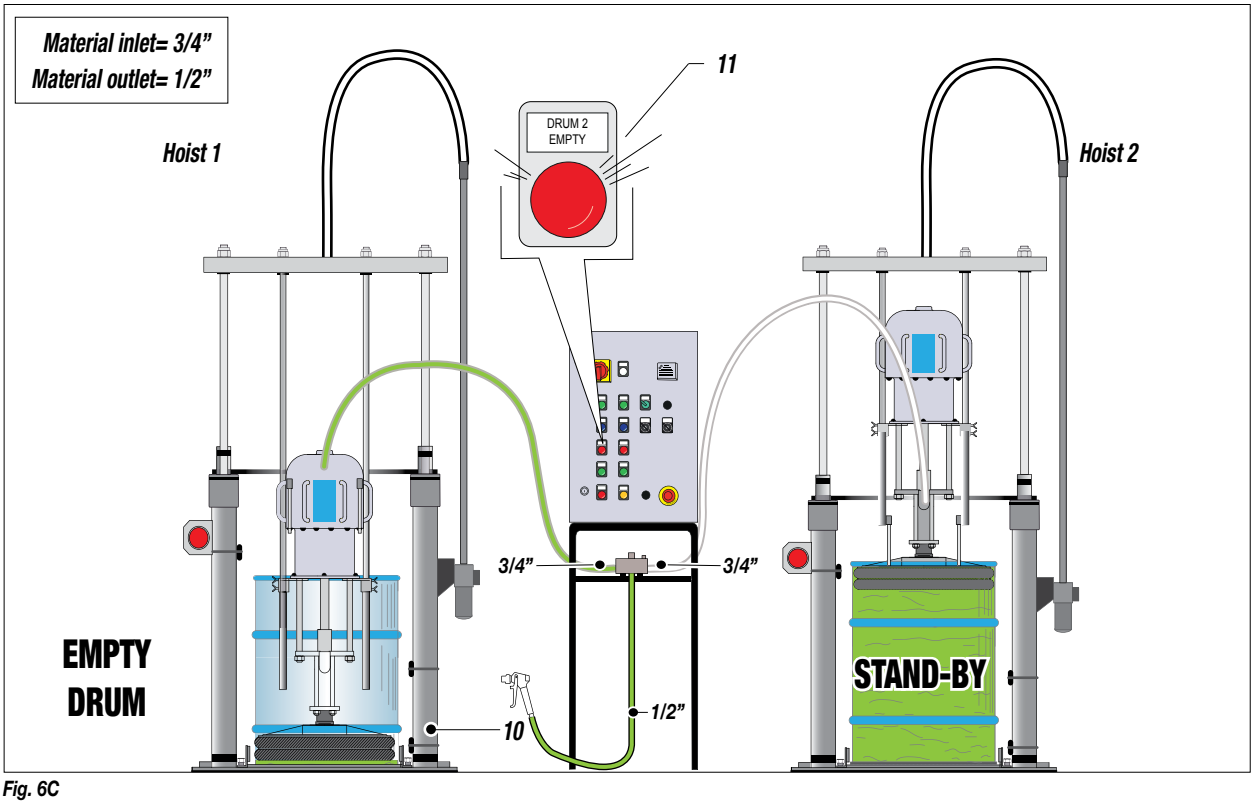

Fig. 6C

Automatic drum change

- The solenoid valves located on the rear side of the control panel intervene when the *hoist 2* is used.
- The lamp **(12)** will light up on the control panel indicating that *pump 2* is working.
- At this point, the operator must remove the empty drum from the hoist 1 and replace it with a new one in the time frame in which the *hoist 2* is used to avoid processing stops.

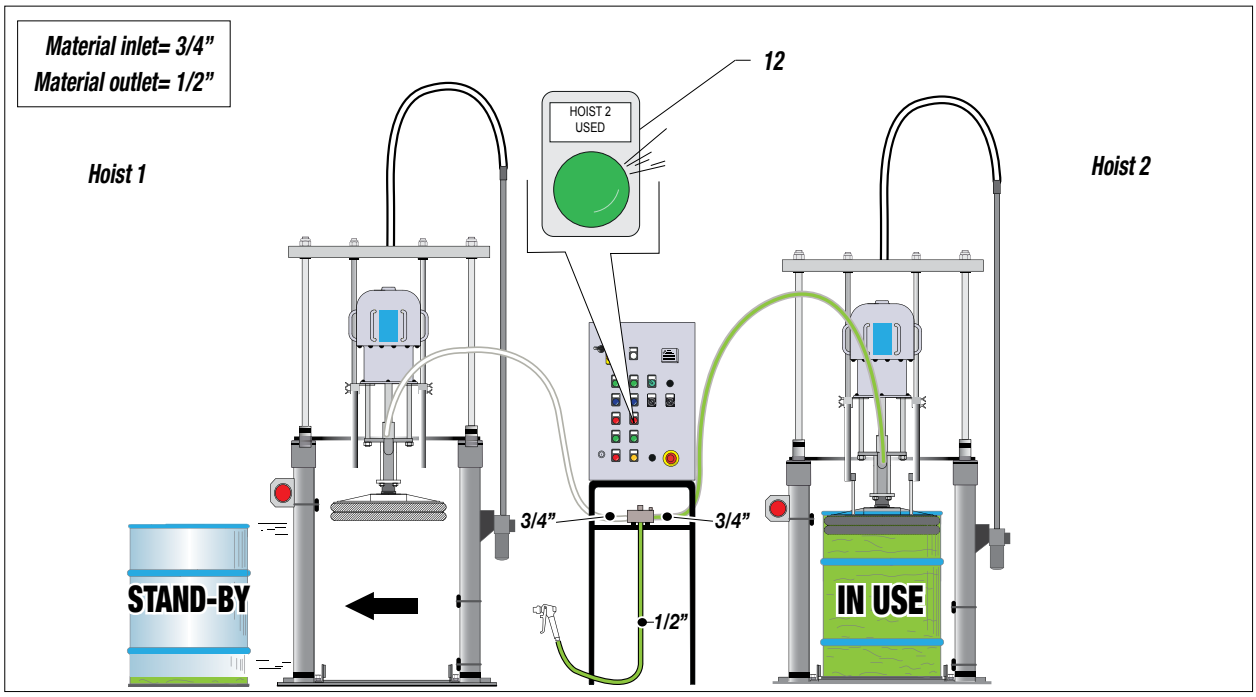

Fig. 7C

D COMPATIBILITY OF THE AUTOMATIC CHANGE SYSTEM FOR DRUM RUNNING OUT

The automatic drum running out change system is a system with high installation flexibility and has been designed to be compatible with the use of two hoists of any size and type, each associated with a pump of any size available on the market.

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