

CONDITIONS OF SALE AND WARRANTY

1. Read carefully this operator's handbook before operating our Rv25 filling machine.
2. M.E.P. guarantees this Rv25 filling machine in case of breakages caused by faulty components or incorrect assembly.
3. The Rv25 filling machine has a 12-month guarantee. 12 month period begins on shipping date from St. Patrick's of Texas. This guarantee is valid only for the first owner of the filling machine.
4. Warranty only consists in replacing the damaged parts and it does include neither refunds for losses caused by the shutdown of the machine nor any cost of labour or any transport cost to send the filling machine to a repair shop.
5. Any repair or modification made to the machine by unauthorized personnel will make the warranty void.
6. We cannot be held responsible for damages due to incorrect use of the filling machine, or failure to carry out maintenance and lubrication, or problems or damage incurred during transport.
7. M.E.P. reserves the right to introduce changes without previous notice to the Rv25 filling machine; however, the supply of spare parts of the previous models will be guaranteed.

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1. DESCRIPTION OF THE Rv25 FILLING MACHINE

Our Rv25 filling machine can be used to bottle wine or other food products as long as they are not too thick.

This filling machine is almost entirely made of stainless steel; there are some parts made of synthetic materials (such as delrin and silicone rubber) which do not react either with the air or food products.

Safety symbols:



General danger



Caution: refer to the operator's handbook



Caution: 230 Volt tension

2. TECHNICAL DETAILS

This four-spout filling machine operates on falling principle; the four spouts have a conic seal and a 14 mm diameter.

This filling machine can be used with bottles up to 400 mm high, made of glass or undeformable material (deformable plastic bottles can't be used).

The inside diameter of the neck of the bottle must be between 15 and 28 mm.

As a standard equipment our Rv25 filling machine is supplied as a bench version; as an optional equipment it can be supplied with a stainless steel wheeled support.

Rv25 filling machine

height: 1050 mm

width: 600 mm

length: 550 mm

weight: 30 kg

Rv25 filling machine equipped with wheeled support

height: 1550 mm

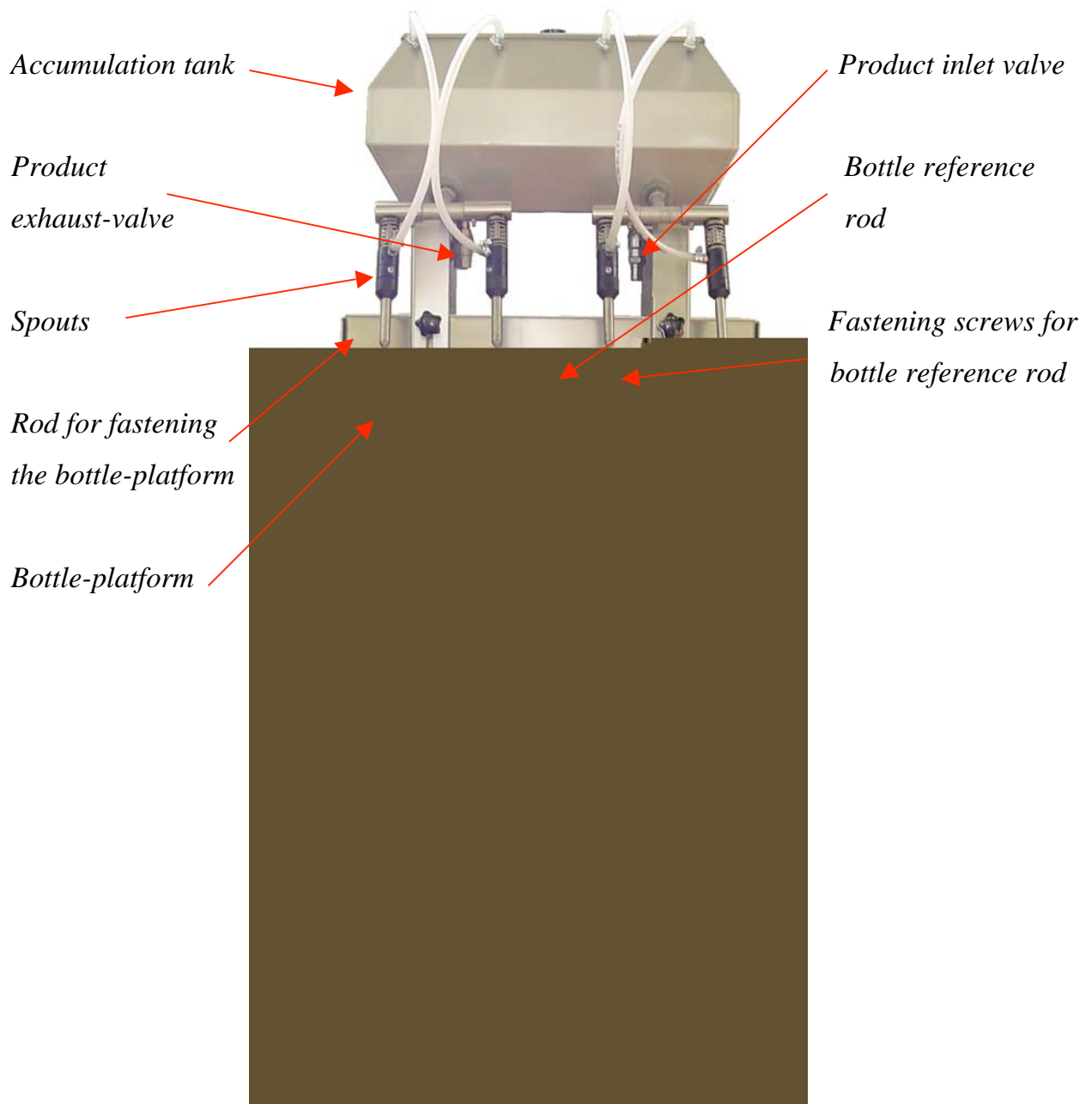
width: 600 mm

length: 550 mm

weight: 40 kg

3. OPERATING DIRECTIONS

Positioning. Place the Rv25 filling machine on a steady support in a lit up room. In case the filling machine is fitted up with a wheeled support, make sure it is placed on an even ground and put on the brakes to the two front wheels.



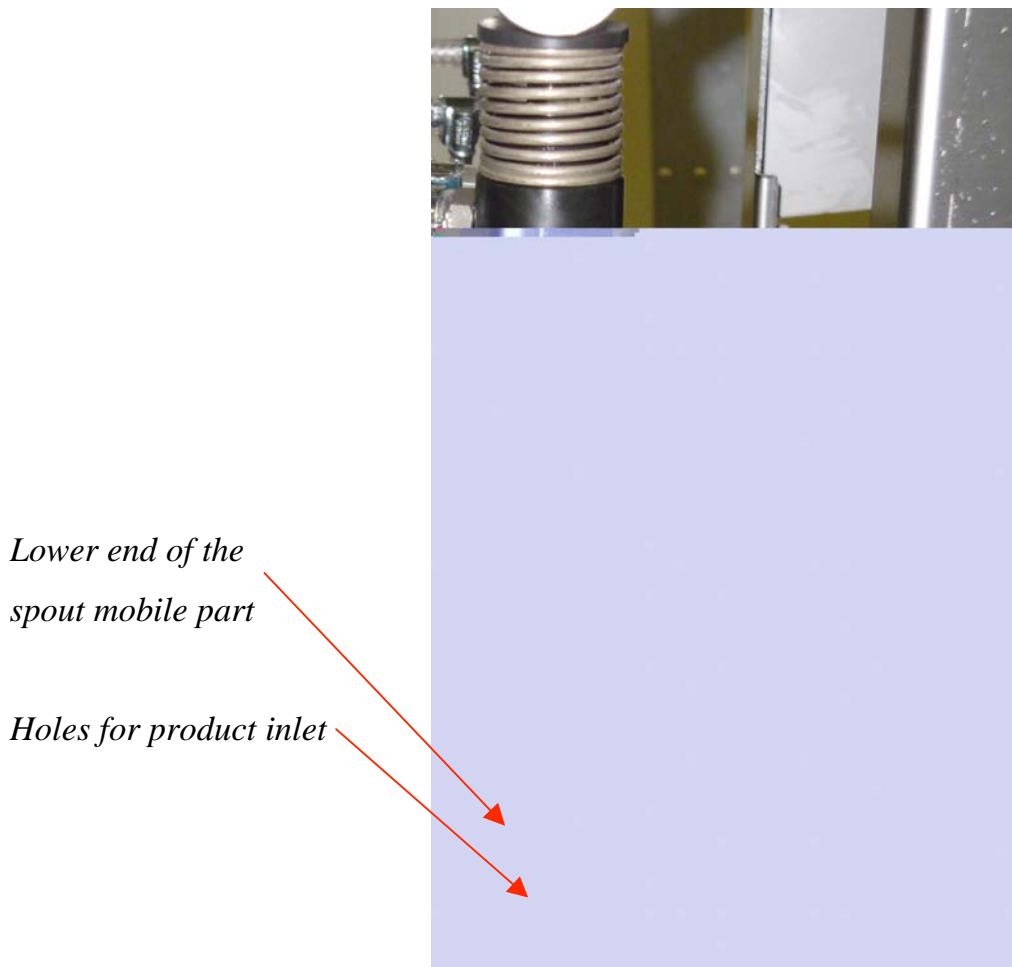
(Filling machine with wheeled support)

Picture 1.

First insert the end of the product-leading pipe into the pipe-holder of the product inlet-valve (see picture 1) and if necessary secure it through a clamp. Check that the product exhaust-valve is closed (see picture 1).

The functioning of the Rv25 filling machine is determined by the filling of the accumulation tank located on the top of the machine (see picture 1). This can be done in two ways: the product which must be bottled can either be lead through a pump or the product inlet-valve can be connected to a tank located higher than the filler. When possible, the second solution is better because the shaking of the product which could be caused by its recirculation through a pump is prevented and all its characteristics are preserved.

A mechanical level adjuster inside the accumulation tank adjusts the inflow and closes the inlet pipe once the maximum level is reached.



Picture 2.

Now turn a spout, put a bottle onto the bottle-platform of the filling machine (the right direction is that of the arrow shown in picture 3; do not turn the spouts to another direction because their proper functioning could be jeopardized). By pushing on the bottle towards the machine the mobile part of the spouts must be made slide. At this point turn the spout and the bottle together, so that the bottle is put onto the bottle-platform (see picture 1, bottle-platform).

In case the product flows down slowly inside the bottle, check that the mobile part of the spout is raised enough so that it is about 10 mm above the holes for product inlet (see picture 2). If it is not so, the position of the bottle-platform must be changed. To do that, loosen the two fastening knobs of the bottle-platform by unscrewing them almost entirely (see picture 3, fastening knobs of the bottle-platform) and turn the bottle-platform so as to disconnect the fastening rod (see picture 1); then relocate it higher. Be careful and keep the bottle-platform in the horizontal position. Do not set the bottle-platform too high because the bottle to be filled must squeeze the spout upper spring so as it is shown in picture 2.

The machine has a reference rod to which the bottles on the bottle-platform must be leant against. The position of this rod can be adjusted by unscrewing the two screws that fix it (see picture 1, bottle reference rod and fastening screws for bottle reference rod).

To adjust the level of product inside the bottles, you must unscrew the screw of the adjusting rings of the spouts using an hexagonal spanner and lower both the ring and the conic seal (see picture 4). Once you have obtained the level wanted, make the same adjustment to all the spouts and tighten the screws, but be careful not to tighten them too much.

In case the level must be adjusted by a good deal, it might be necessary to lower the bottle-platform.

*Electric level adjuster
(optional)*

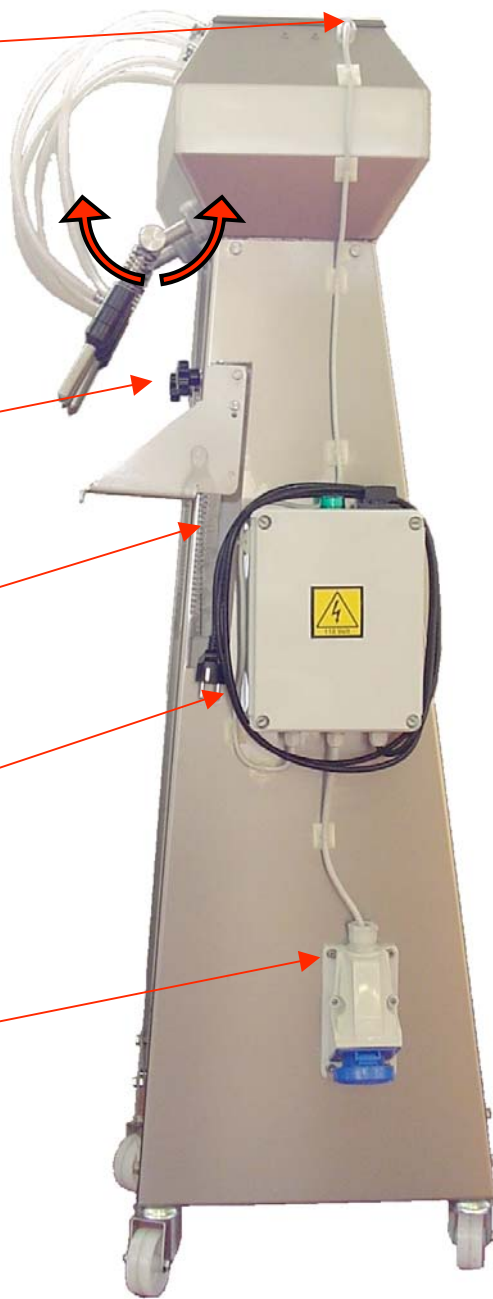
*Direction of rotation
of the spouts*

*Fastening knobs of the
bottle-platform*

*Fasteners for height
adjustment of the
bottle-platform*

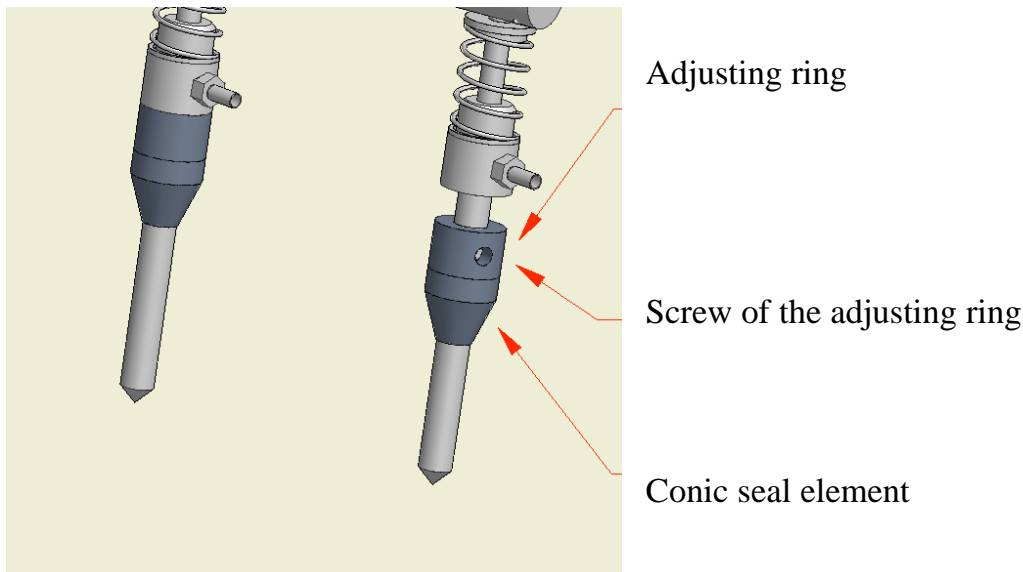
*Electric box
(optional)*

*Current-tap for
external pump
(optional)*



(Filling machine with wheeled support)

Picture 3.



Picture 4.

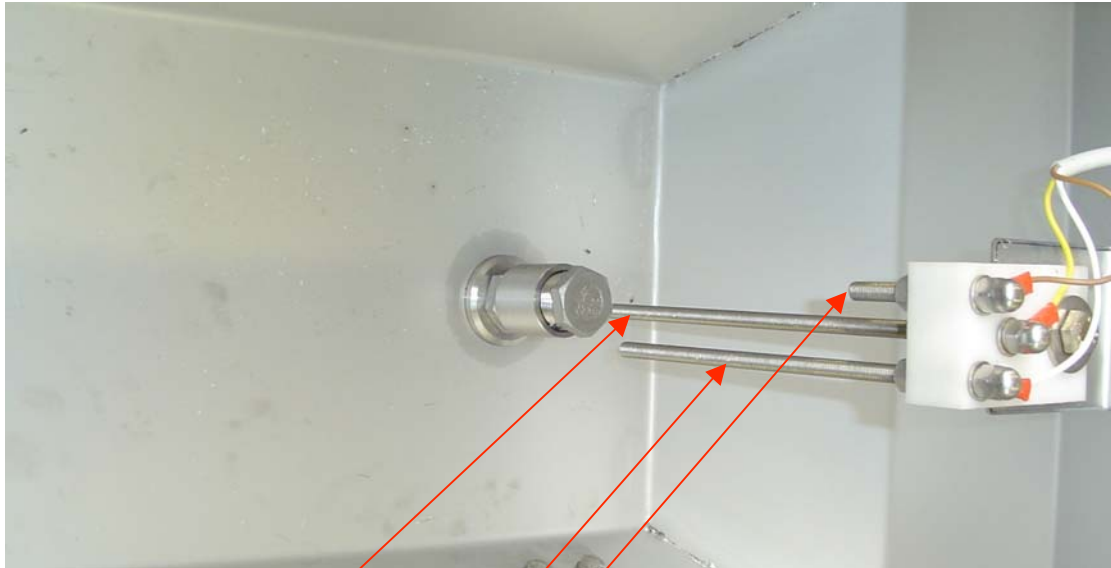
The Rv25 filling machine is fitted up with a mechanical level adjustment system; on demand, the machine can be equipped with an electric one which has a current-tap for an external pump (see picture 3, current-tap for external pump). This electric system is optional and it takes the product level inside the accumulation tank: when the maximum level is reached it disconnects the pump; at the minimum product level it connects the pump again.

The level is taken by stainless steel threaded rods which feel the touch with the product. Among the three rods, the longest one is a necessary reference for the data to be processed; the one which is a little shorter when it isn't in touch with the product any more connects the pump again; whereas the higher rod when it touches the product disconnects the pump.

The electric float needs the filling machine to be connected to a current-tap. Then the general switch can be started and the green warning light of the electric board will turn on. Now the electric level adjustment system is already operating.

When the pump is disconnected a no return valve prevents the product from going away from the upper accumulation tank of the filling machine (only the electric level adjustment system is equipped with a no return valve)

Since the pump operates intermittently it is advisable to use a paper filtering-plates filter between the pump and the filling machine, because the repeated starts could jeopardize quickly the filter proper functioning.



Reference rod

Rod for minimum level bearing

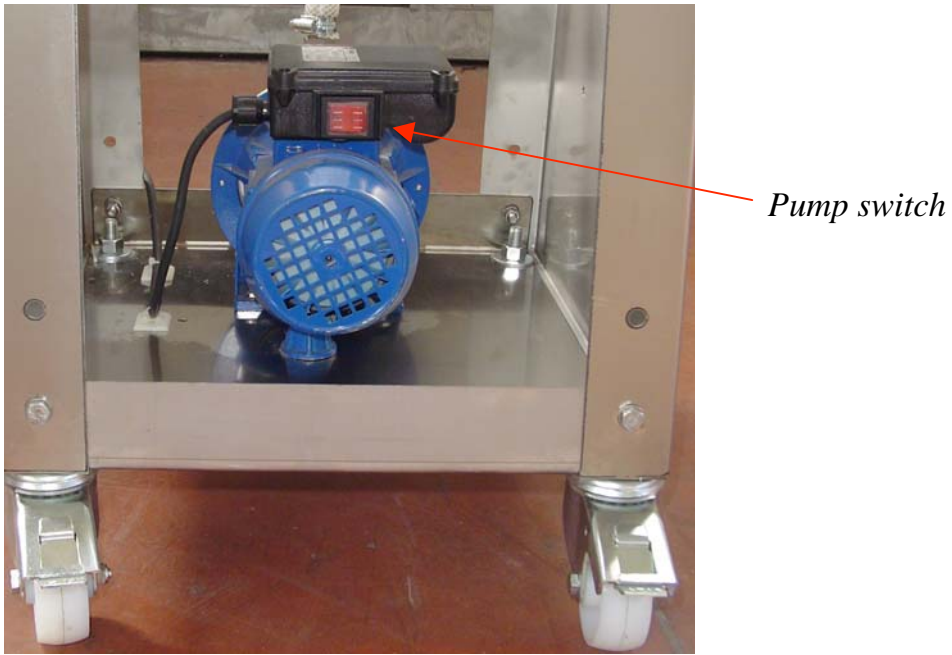
Rod for maximum level bearing

(View of the inside of the upper accumulation tank)

Picture 5.

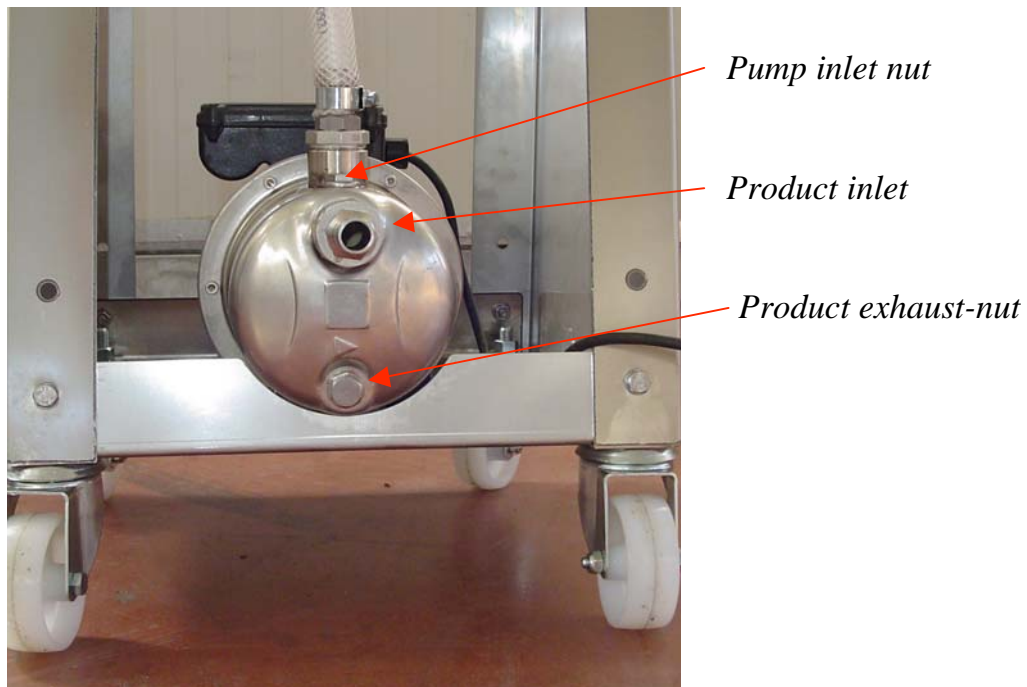
The filling machine provided with a wheeled support can be ordered with an optional pump already assembled in its lower part.

Before starting bottling the product inlet pipe must be connected to the pump (product inlet, see picture 7). For the pump to work properly take off the inlet nut (see inlet nut, picture 7) and fill up the pump tank with product. Before starting bottling screw down again the inlet nut but not too tightly.



(Front view of the filling machine)

Picture 6.



(Back view of the filling machine)

Picture 7.

When the machine is equipped with a mechanical level adjustment system connect the pump directly to a current-tap. The pump will always operate while the mechanical adjuster guarantees that the right product quantity passes so that the correct level inside the accumulation tank is reached. In case the filling machine is equipped with an electric level adjustment system the pump is already connected to this system and there isn't any side current-tap (see picture 3); it is enough to connect the filling machine to current. In this case the pump is started only when necessary and the product characteristics are better preserved.

Connect the filling machine to current and turn the general switch: the green warning light turns on and the pump starts. If it does not start, check that the pump switch is in the "on" position (pump switch, see picture 6).

IMPORTANT

Before using the filling machine for the first time or after a long stop, it is advisable to fill some bottles with tepid water.

4. MAINTENANCE

At the end of work, open the product exhaust-valve and empty the accumulation tank.

Then it is advisable to fill some bottles with tepid water to remove the residual products and guarantee a longer life to the gaskets.

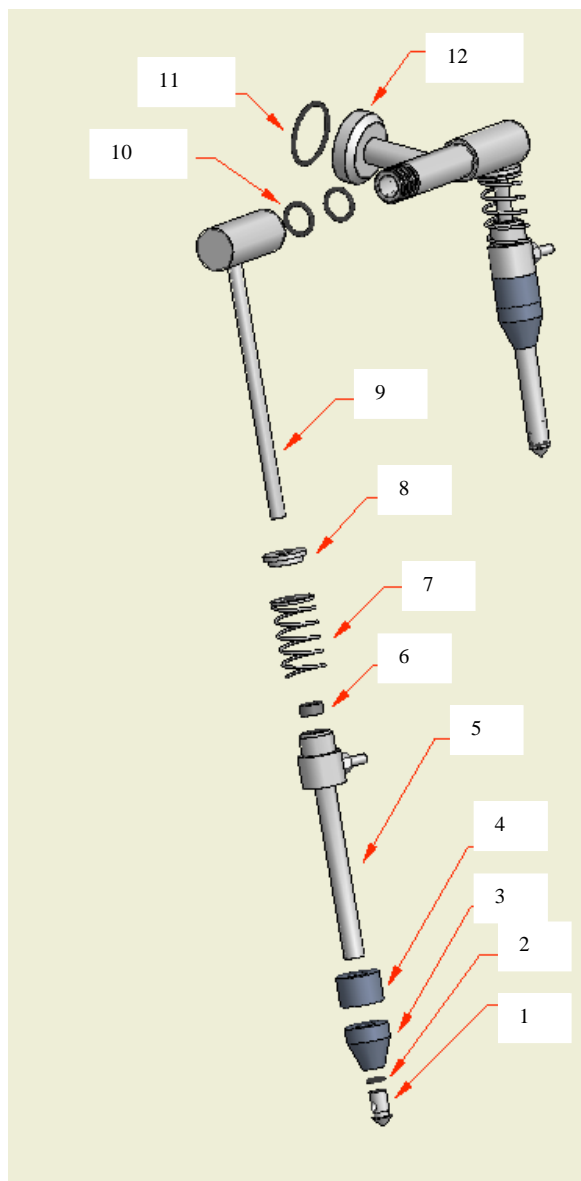
For a more accurate maintenance, disassemble every single spout by unscrewing the lower seal (see element no. 1, picture 8); now, their inner part can be cleaned.

In case the filling machine is equipped with pump, take off both the product inlet pipe and the product exhaust-nut to empty the pump (product exhaust-nut, see picture 7).

5. FAULTS AND REMEDIES CHECK LIST

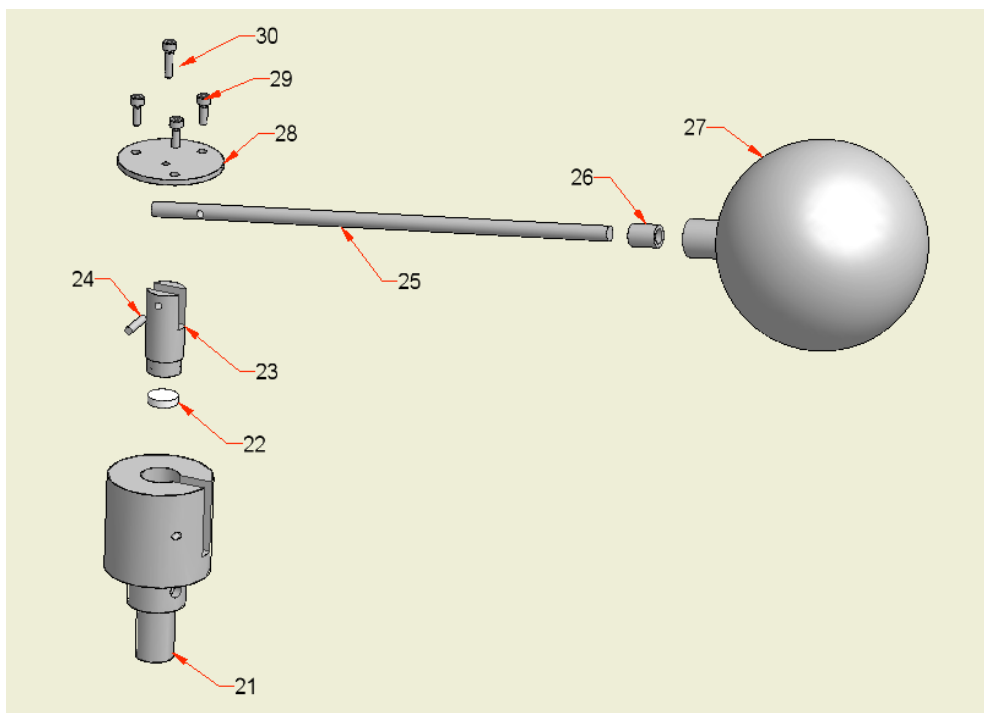
If there is a leak of product, it is advisable to replace the gaskets which are near the dripping (see elements no. 2, no. 6 and no. 10, picture 8).

In case the product level inside the accumulation tank is not steady, but it tends to increase, disassemble the round gasket of the level-adjuster and change it (see element no. 22, picture 9).



Picture 8.

POSITION	DESCRIPTION	REFERENCE
1	Lower seal element	Rmp0507
2	2037 O-ring	Tap0423
3	Conical seal element	Rmp1005
4	Rubber cone adjusting ring	Rmp0113
5	Sliding pipe	Rmp0504
6	1016/1 Mad Gasket	Tap0426
7	Closing spring of the injector	Rmp0116
8	Upper reference of the spring	Tap0503
9	Main duct	Tap0502
10	2068 O-ring	Tap0424
11	3131 O-ring	Tap0425
12	Double seals horizontal shaft	Rmp1060



Picture 9.

POSITION	DESCRIPTION	REFERENCE
21	Ring nut for festening the rod	Rmp0803
22	Round sealing gasket	Tap0239
23	Mobile cylinder	Rmp0802
24	M4x18 threaded pin	Tap0354
25	Rod	Rmp0804
26	Floating ball fastening pin	Rmp0805
27	Floating ball	Tap0240
28	Upper perforated sheet	Rmp0808
29	M4x10cylindrical headed screw	Tap0327
30	M4x30cylindrical headed screw	Tap0309

ELECTRIC SYSTEM

