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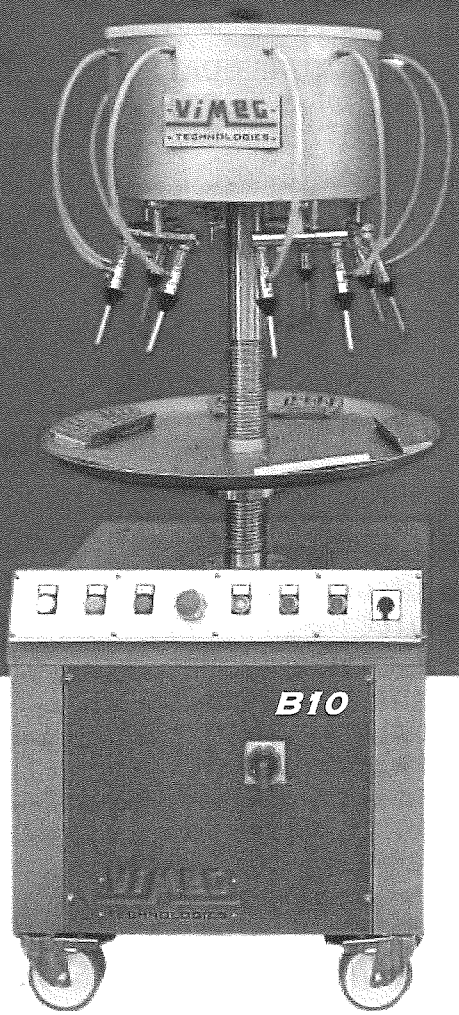
AUTOMATIC BOTTLING LINES



B10

SEMI-AUTOMATIC
ROTARY FILLING
MACHINE

USE AND MAINTENANCE MANUAL

THIS MANUAL IS AN INTEGRAL PART OF THE MACHINE

- TRANSLATION OF THE ORIGINAL INSTRUCTIONS -

VIMEG TECHNOLOGIES S.r.l.

36043 Camisano Vicentino (VI) Italy - Via dell'Artigianato, 50/B
Telephone: +39 0444 410175
www.vimegtechnologies.it *info@vimegtechnologies.it*

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NAMEPLATE ON THE MACHINE

IMPORTANT NOTE:

THIS MANUAL IS THE PROPERTY OF VIMEG TECHNOLOGIES, ANY REPRODUCTION, EVEN PARTIAL, IS PROHIBITED.

TYPE OF DOCUMENT: **INSTRUCTION MANUAL**

PAIRED WITH THE MACHINE: **B10 FILLING MACHINE – 10 SPOUTS**

REGULATORY FRAMEWORK

In drafting the manual, the indications provided by the following were used:

Reference	**Title**
Standard **IEC 117-13/1**	Relating to ANS type low voltage control panels ***(Ref. Mod. GE-PE)***
Directive **2004/108/EC**	Electromagnetic Compatibility (EMC) Directive ***(Ref. Mod. GE-PE)***
EC Reg. no. **1935/2004**	Materials and objects in contact with food
EC Reg. no. **2023/2006**	Good manufacturing practice for articles intended to come into contact with food

1. INTRODUCTION

First of all we wish to thank you for purchasing one of our products.
When manufacturing our articles, we always try to ensure they are practical to use, safe, of high quality and durable; to ensure this, please read the manual carefully.

1.1 HOW TO READ THE MANUAL

1.1.1. Purpose and content of the manual

The manual is written to allow operators to:

- know the problems related to the machine;
- work safely.

Inside, operators will find instructions and information for use and proper maintenance, along with safety and accident prevention rules.

1.1.2. General warnings

ATTENTION: BEFORE CARRYING OUT ANY OPERATION ON THE MACHINE, OPERATORS MUST CAREFULLY READ THE INSTRUCTIONS CONTAINED IN THIS DOCUMENT AND FOLLOW THEM WHILE CARRYING OUT THE OPERATIONS.

WARNING: VIMEG TECHNOLOGIES is not liable for:
- **damage resulting from using the machine for purposes other than those indicated;**
- **damage resulting from attempted repairs by unqualified personnel.**

WARNING: referring to some important requirements of European directives governing safety in the workplace,
THE SAFETY MANAGER in the facility must:
- **verify that personnel operating the machine are able to understand and apply the basic safety rules in force in any working environment.**
- **conduct adequate practical training and ensure, including by means of tests, that operators are able to operate the machine correctly and safely, both in normal operation and in emergency situations.**

1.1.3. Storing the manual

IT IS MANDATORY TO STORE THIS MANUAL and all attached documents in an easily accessible place, close to the machine, and known to all users. THE MANUAL IS AN INTEGRAL PART OF THE MACHINE FOR SAFETY PURPOSES.

Therefore:
- it must be kept intact (in all its parts);
- it must accompany the machine up to its demolition (even if it is moved, sold, rented, etc).

1.2. MANUFACTURER DATA

VIMEG TECHNOLOGIES srl
Via dell'Artigianato n° 50/B
Post code 36043 CAMISANO VICENTINO (VI) Italy
Tel. +39 0444 – 410175
e-mail: info@vimegtechnologies.it
website: www vimegtechnologies it

1.3. TECHNICAL SUPPORT

The service department is available to customers for:

- clarifications and information;
- sending spare parts.

ATTENTION: please note that:
- It is mandatory for the customer to always purchase original spare parts or authorised by the Manufacturer;
- disassembly and assembly of parts must be carried out by qualified personnel, following the manufacturer's instructions;
- using non-original spare parts and a faulty or incorrect assembly relieves the Manufacturer from any liability.

1.4. WARRANTY

The company VIMEG TECHNOLOGIES guarantees that the machine has been built in compliance with the regulations in force, in particular those for the safety and health of workers.

The product warranty is 12 months; electrical parts are excluded from the warranty. All consumables are also excluded from the warranty.

The purchaser is only entitled to the replacement of defective parts, subject to inspection at our premises or at the customer's domicile, with transport and labour costs being charged.

Transport costs for any defective parts are excluded from the guarantee and shall be borne by the purchaser.

Damages resulting from incorrect handling of the machine, failure to observe maintenance regulations, as well as incorrect manoeuvres by the operator are excluded from the warranty.

Any tampering with the product, especially with safety devices, shall invalidate the WARRANTY and relieve the Manufacturer from all liability.

No compensation is due for any inactivity of the machine.

2. DESCRIPTION

2.1 GENERAL DESCRIPTION OF THE MACHINE

The B10 FILLING MACHINE is made of AISI 304 STAINLESS STEEL and, depending on the version, can be supplied with a filter, a pump, or just the filling machine.

2.2 TECHNICAL DATA SHEET

DESCRIPTION		B10
Dimensions	*cm*	**70 x 70 x H180**
Weight	*Kg*	**100**
Hourly output	*bph*	**1200** (0.75L)
Voltage	*V*	**See machine nameplate**

USABLE BOTTLE SIZES		
Bottle height	*mm*	**Max 400 – min 100**
bottle Ø	*mm*	**Max 140**
Bottle neck hole Ø	*mm*	**Min 15** (standard spouts Ø14) **Min 13** (special spouts Ø12)

2.3 INTENDED USE

2.3.1 Intended use

The B10 filling machine is designed for gravity filling of bottles with food-grade liquids such as wine and spirits.

The filling machines are intended for indoor use. All running operations can be performed by a single operator.

It is PROHIBITED to use the filling machine for:

1. liquids of any kind, explosive, flammable, corrosive, etc;
2. solid products;
3. animal products;
4. for any use other than what it was intended for.

ATTENTION: EXPLOSIVE ATMOSPHERE.

This machine is not made in EP (explosion-proof) equipment, but is made in standard equipment.

IT IS THEREFORE FORBIDDEN TO USE IT IN ROOMS WHERE THE CONCENTRATION OF GAS MAY EXCEED PERMISSIBLE LIMITS AND CREATE ATMOSPHERES WITH A RISK OF EXPLOSION.

2.3.2 Use

In order to be able to work, the filling machine must be placed on a flat surface to ensure maximum stability during processing.

2.3.3 Noise

The noise of the filling machine during processing is less than 70 db.

3. TRANSPORT

The machine is shipped fully assembled and packed on pallets.
Upon arrival, check that the machine has not been damaged during transport and that all parts indicated in the shipping documents are present. If damage is detected, it is mandatory to notify the carrier and inform both the manufacturer and the forwarding agent immediately.

ATTENTION:
the means used for handling and lifting the filling machine must be suitable, taking into account shape, size and mass.

WARNING: Avoid shocks and/or pressure on the pallet.

4. SAFETY

4.1 GENERAL INFORMATION

The purpose of the following chapter is to inform operators of any risks and safety regulations to be observed when using the machine, however these regulations must be observed in any working environment.

4.2 WORK AREA SAFETY

The work area must be unobstructed, for total freedom of movement of the operators, and must have adequate lighting:

- ➢ respect the indications on the nameplates on the machine;
- ➢ Before starting work, make sure that there are no persons carrying out cleaning or maintenance work on the machine;
- ➢ do not carry out any cleaning, maintenance or dismantling operations without first disconnecting the machine from the mains.

4.3 MACHINE-INTEGRATED SAFETY AND OPERATING CYCLE

Operating cycle:

The entire operating cycle is controlled by the operator. The operator is not exposed to risk if he/she respects:

- ➢ the intended use of the machine;
- ➢ the procedures described in the manual;
- ➢ the tasks and skills appropriate to his/her knowledge.

4.4 RESIDUAL HAZARDS FROM MATERIALS

The materials with which the filling machine is constructed do not create hazards or risks for operators. On the other hand, waste from processing and maintenance operations can be an environmental hazard if not treated properly. Such materials must be collected and disposed of in accordance with the laws in force in the country where the machine is installed.

4.5 PROTECTION AGAINST RISKS DUE TO ELECTRICITY

The design of the electrical installation in the switchboard and in particular the connection to the power source, the connections to the protective circuit, the quality and arrangement of the components ensure the prevention of electrical energy risks.

5. INSTALLATION AND OPERATION

WARNING: **General premise. Please note that all operators must: respect the intended use.**

Safety warning:
Personnel operating the filling machine must be familiar with this manual and all safety information.

"Misuse" of the filling machine results in forfeiture of the warranty and full assumption of liability by the user.

The indoor environment must be suitable for the use of the filling machine and free of objects that could obstruct its intended use;

For the version with electric float and/or pump (mod. GE-PE), the operator must pay attention to the following points before use the filling machine:

- **Check the integrity of the plug and connecting cable;**
- **do not run the power supply cable over tools or machines which could damage it irreparably;**
- **do not lay the cable on wet or muddy ground;**
- **the switches, sockets or plugs upstream of the plug supplied to the filling machine must have an adequate protection rating;**
- **check that the nameplate data of the filling machine match the data of the supply network;**
- **check that the electrical power supply system upstream of the filling machine is equipped with a suitable differential and magneto-thermal circuit breaker and grounding cable so as to ensure the safety of persons in the event of a fault;**
- **if extension cords are used, they must be equipped with an earthing cable;**
- **ensure that no children are present when using the filling machine;**
- **NEVER leave the filling machine unattended during operation;**
- **NEVER leave the filling machine connected to the mains after using it, ALWAYS ensure that the plug has been unplugged.**

CAUTION Keep children and unauthorised persons away from electrical equipment.

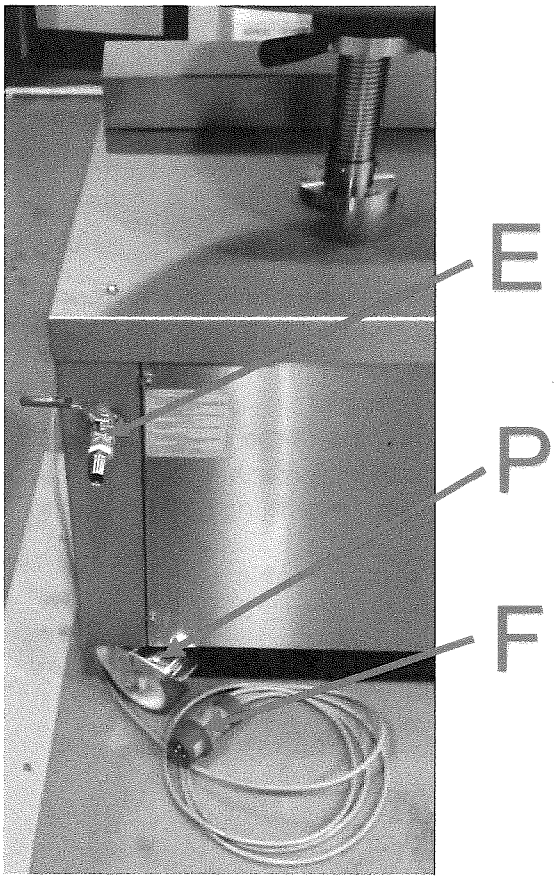
ATTENTION In the event of a malfunction or fault, the operator must never disassemble it, but contact the service centre or the manufacturer.

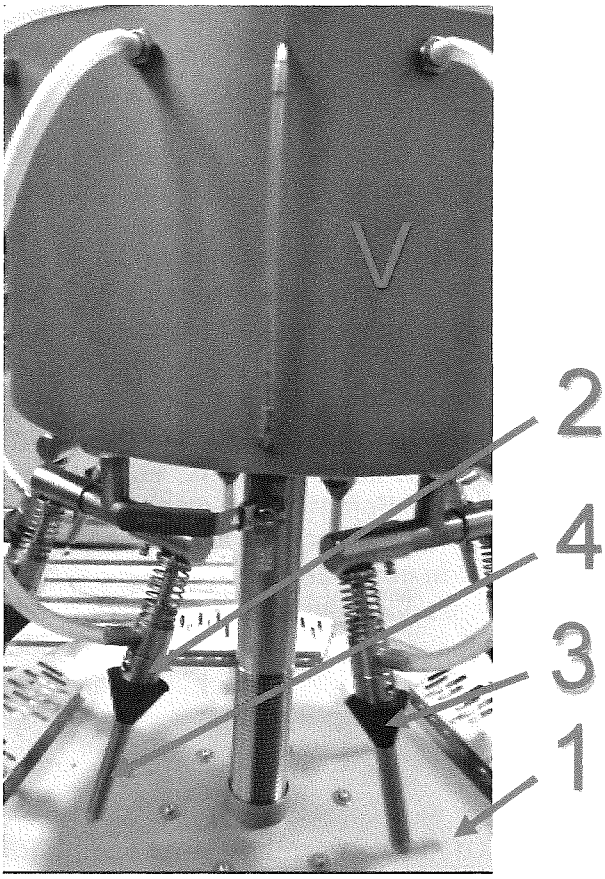
5.1 POSITIONING

Take care to place the filling machine in a safe place, so that accidental shocks or vibrations do not cause it to move and thus cause damage to persons or property. Lock the **P** wheels with the brakes so that the filling machine is stable. Connect a rubber hose suitable for the product, to the inlet connection **E**, for filling, and the power plug **F** to its corresponding socket (always check, voltage, hertz, ampere, etc.).

5.2 INITIAL ADJUSTMENTS

Various bottle sizes can be used.
Depending on the height of the bottle to be used, adapt the filling machine by moving bottle holder **1** up or down, turning it to the right, smaller bottles can be filled, to the left, taller bottles. The final liquid level in the bottle can be varied by adjusting the spacer **2**, located above the rubber sealing cone **3**, on each spout **4**.

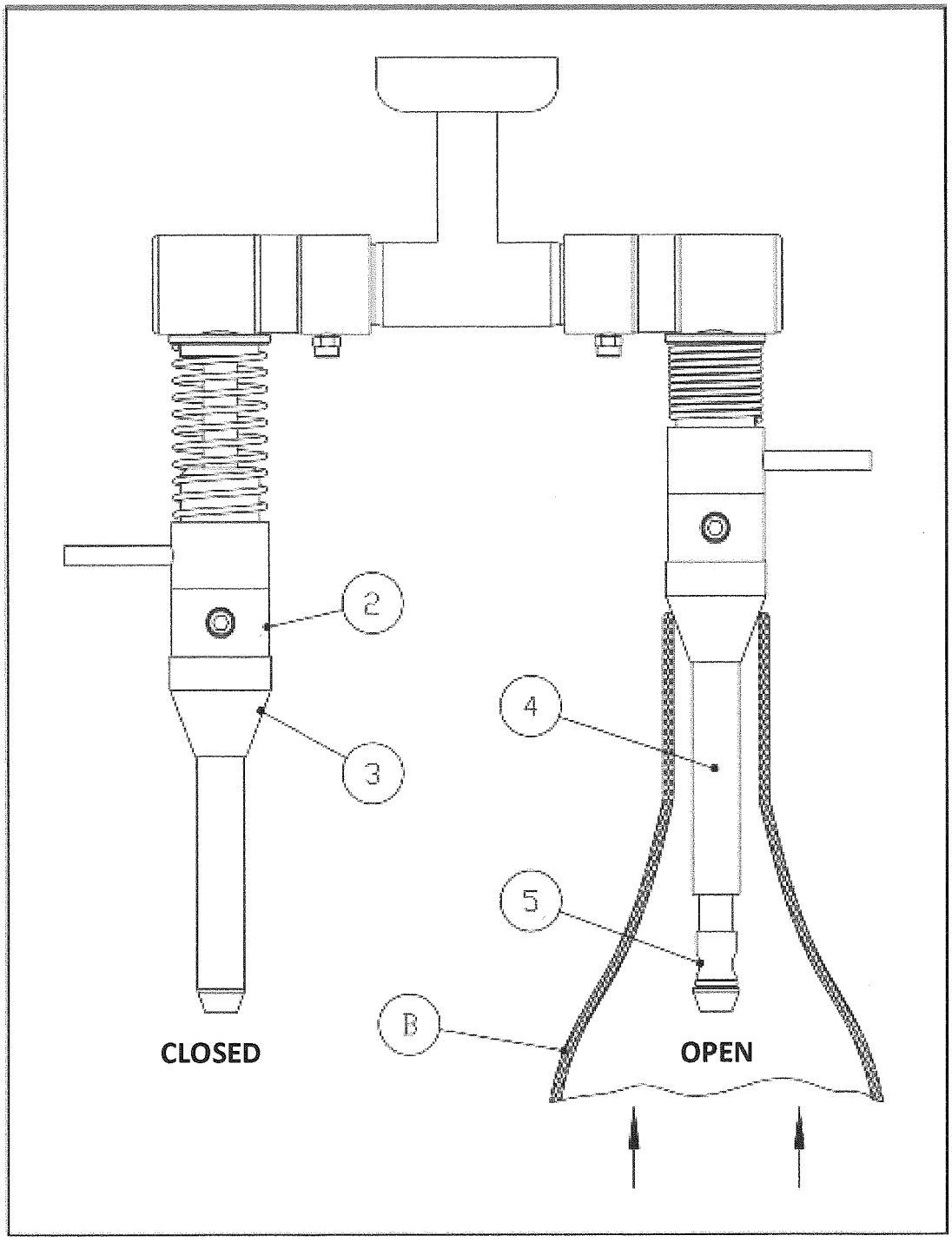




5.3 OPERATION

Operation is simple, the tank **V** is filled by introducing liquid through a tube connected to the inlet connection **E**, via a pump. The pump is installed directly on the filling machine.
Once the tank is filled, the bottles can be filled.

Insert spout **4** into the neck of bottle **B** and place it on bottle stand **1**, bearing in mind that the head of spout **5** must remain in the open position once it has been placed. Once the bottle is filled, push it upwards to remove it from the bottle holder **1**, then pull it out of the spout **4**, which will close, preventing the liquid from escaping.

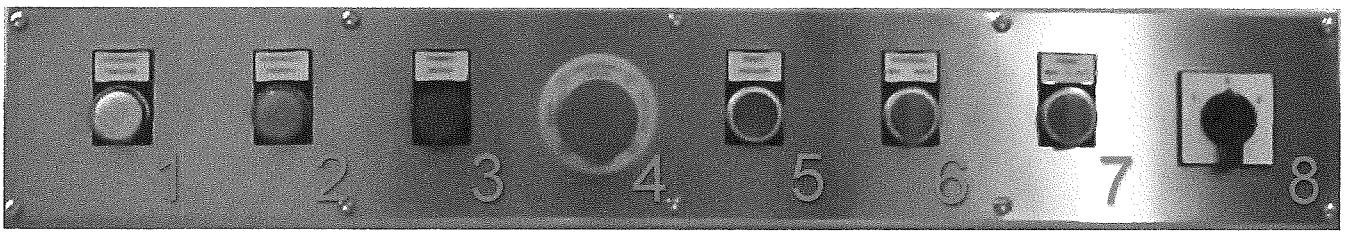


As the product decreases in the tank, the level will be restored by an electric float.

5.4 ELECTRIC FLOAT

The **B10** filling machine is fitted with an electric float. The system consists of two floats mounted on a single rod inside the tank. These automatically control the pump connected to the switchboard. When the liquid level falls below the lower float (**MIN**), the pump is activated by filling the tank; once the liquid reaches the upper probe (**MAX**), the pump automatically switches off.

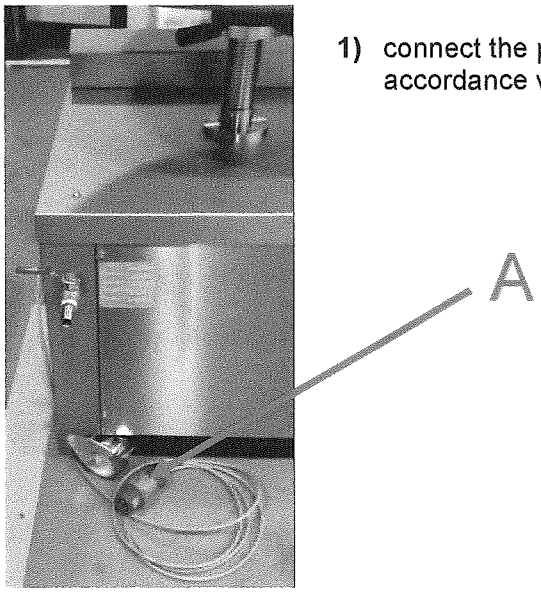
5.5 CONTROL PANEL



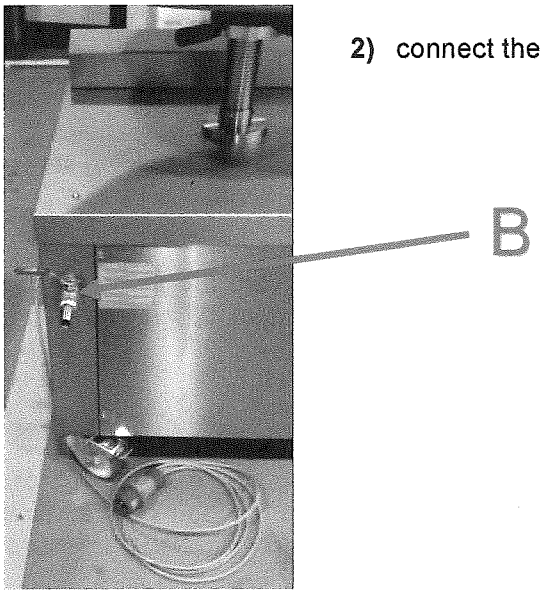
1) VOLTAGE PRESENCE
   (INDICATES MAIN SWITCH ON)
2) CLUTCH OPERATION
   (SAFETY CLUTCH ENGAGED)
3) MOTOR CIRCUIT BREAKER
   (THERMAL PROTECTION TRIPPED)
4) EMERGENCY BUTTON
   (IF PRESSED IT LOCKS THE MACHINE)
5) RESET
   (PRESS TO START THE MACHINE)
6) MACHINE ROTATION
   (LEFT STOP – RIGHT START)
7) PRODUCT PUMP
   (MANUAL LOADING – AUTOMATIC LOADING WITH ELECTRIC FLOAT)
8) PUMP ROTATION DIRECTION
   (TANK FILLING – TANK EMPTYING)

5.5.1 Start-up

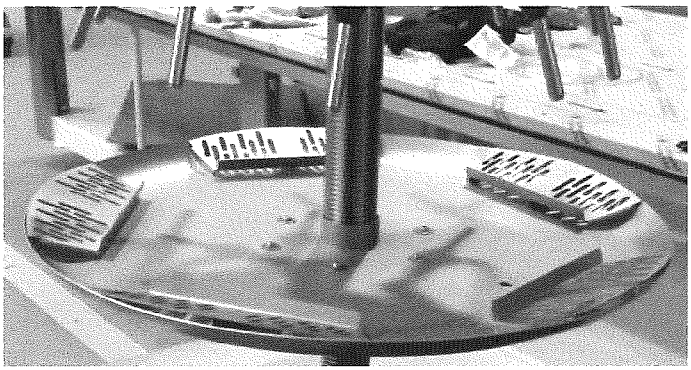
Perform the following steps to perform start-up:



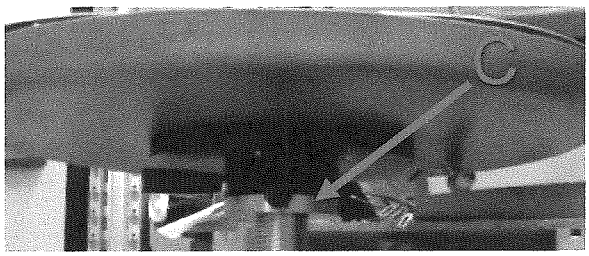
1) connect the power cable **A** to the mains in accordance with the data on the label;

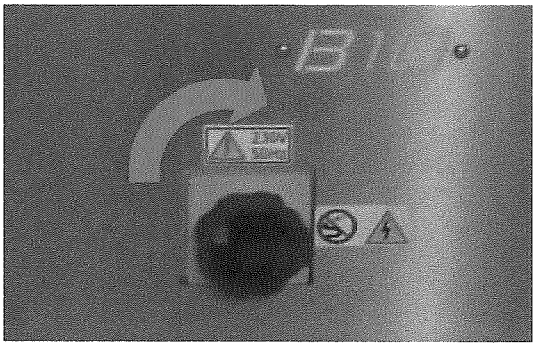


2) connect the product filling hose to the hose connector **B**

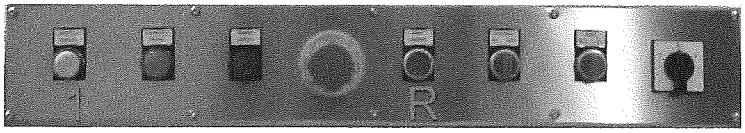


3) turn the tray to the right or left to adjust the height of the bottle, then lock with the counter-flange **C**.

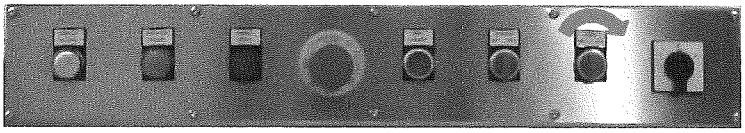




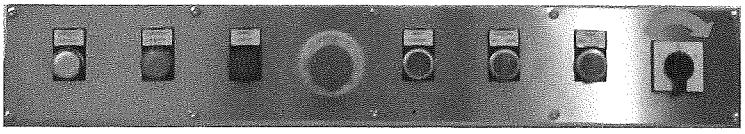
4) Turn the main switch to the right ON, the white light **1** lights up;



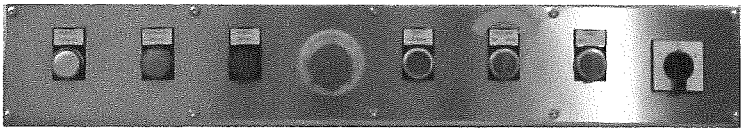
5) Press the **R** RESET button;



6) Turn the pump selector switch to the right AUT;



7) Turn the selector switch, pump rotation direction, to the right (product loading in the tank);

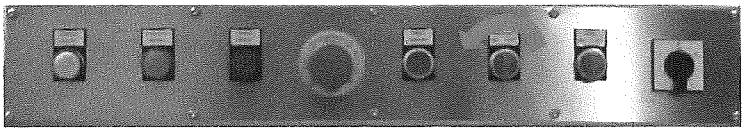


8) Turn the selector switch to the right, START machine rotation;

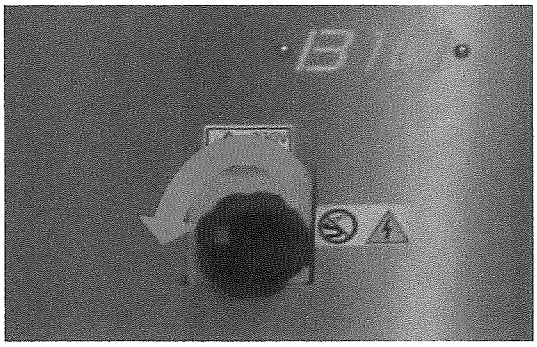
9) To increase or decrease the speed of rotation of the filling machine, turn the knob on the left of the machine, turning to the right increases the speed, turning to the left decreases it;

5.5.2 Shutdown

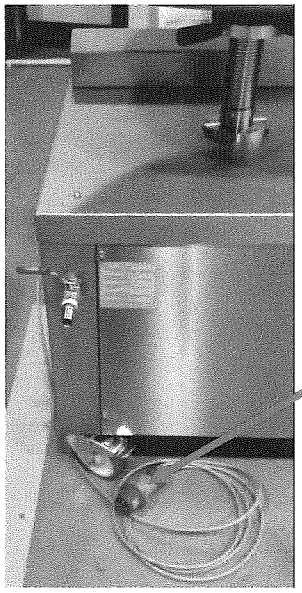
Perform the following steps to perform shutdown:



1) Turn the selector switch to the left, STOP machine rotation;



2) Turn the main switch to the left OFF, the white light **1** goes out;



3) disconnect the power supply; power cable **A** to the mains

IT IS FORBIDDEN to carry out any work on electrical equipment.

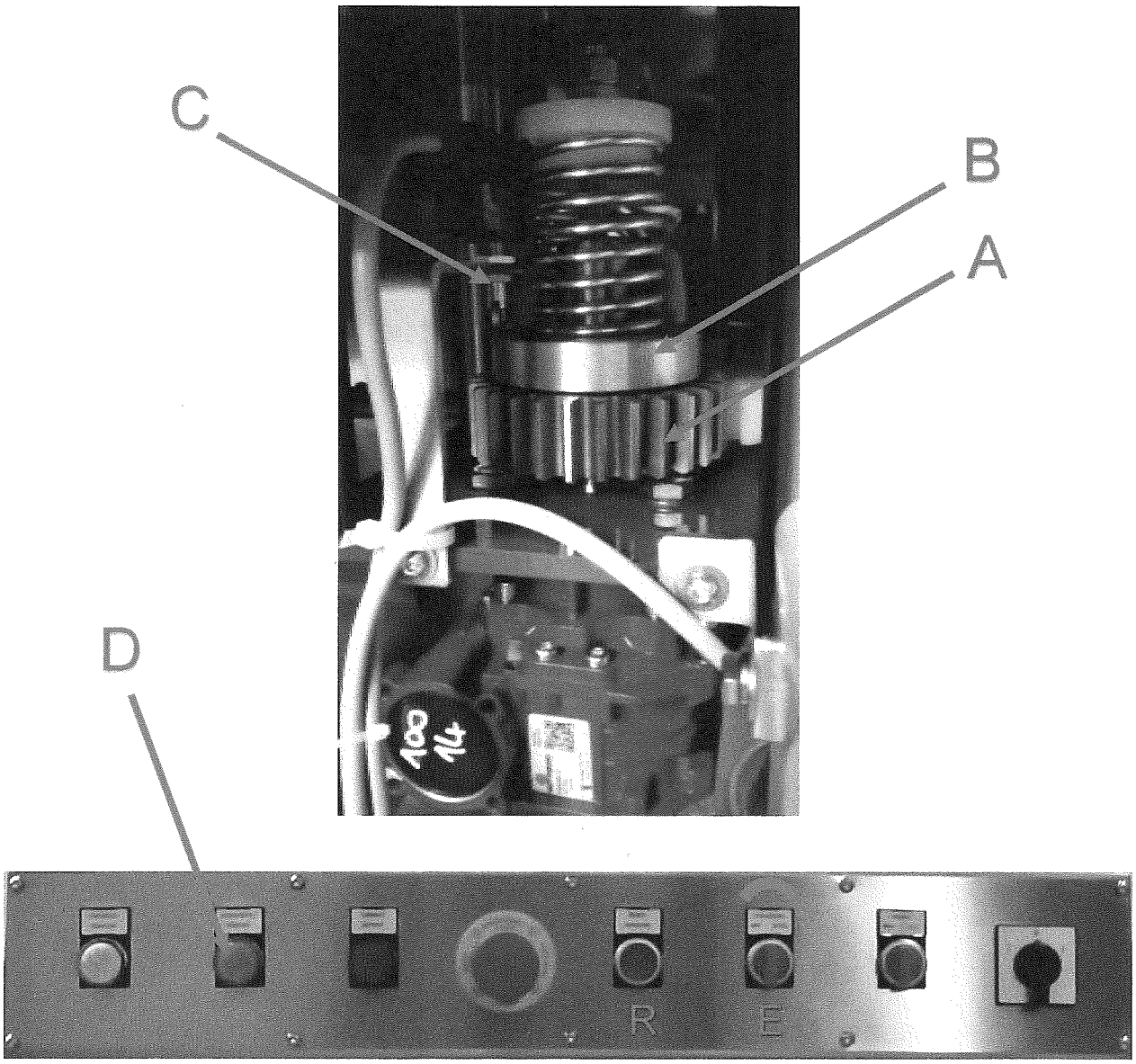
In particular, the operator is prohibited from:

➢ opening electrical panels and working on the equipment installed inside them;

➢ removing protections of live parts and/or disconnecting electrical devices (remove connectors, covers of electrical devices, etc.).

5.5.3. Safety clutch operation

Should there be a need to stop machine rotation, simply hold one of the filling units in place. Rotation of the filling machine is achieved by means of a gear **A** mounted on a clutch **B**. Only 3 balls are housed inside the clutch, and if they sense resistance, they come out of their seats and go to press the limit switch **C**, which blocks the machine, triggering alarm **D** on the control panel.



To reset the clutch, simply rotate the tank until the alarm goes off, press the **R** RESET button and restart rotation with the **E** control.

6. MAINTENANCE

6.1. ROUTINE MAINTENANCE ACTIVITIES (GENERAL INFORMATION)

6.1.1. Technical warnings for good maintenance

For good maintenance:
- use only original spare parts, tools suitable for the purpose and in good condition;
- respect the activity frequencies indicated in the manual for scheduled maintenance (preventive and periodic);
- good preventive maintenance requires constant attention and continuous monitoring of the machine. Promptly check the cause of any faults such as excessive noise, overheating, etc., and remedy them.

If in doubt, contact the manufacturer or the authorised service centre.

6.1.2. Maintenance plan

In terms of construction, the interventions concern mechanical and electrical parts.
From an operational point of view, for the maintenance engineer, operations are divided into two categories:
- routine scheduled (or preventive) maintenance;
- routine maintenance according to condition.

Scheduled routine maintenance (periodic or preventive) includes inspections, checks and interventions that, in order to prevent stoppages and breakdowns, keep the mechanical condition of the machine and in particular the drives under systematic control.

Routine maintenance according to condition concerns machine components for which no wear or intervention time can be pre-determined.
These components must be monitored and replaced when the state of wear and tear makes them unfit for use.

6.2. ROUTINE MAINTENANCE

In order to keep the machine in full working order, the maintenance schedule indicated must be followed. Failure to comply with the above exempts the manufacturer from any liability for warranty purposes.

NOTE: The frequencies indicated refer to normal operating conditions, i.e. meeting the expected and contractually agreed conditions of use.

TYPE OF ACTIVITY	FREQUENCY	
	START OF WORK CYCLE	END OF WORK CYCLE
Machine cleaning		x
Seals and welds check	ANNUALLY	
Button efficiency check	x	
Electrical cable condition check	x	x

6.3. MACHINE CLEANING

Cleaning the filling machine removes any encrustations or deposits that could compromise the proper functioning of the machine and the processed product. When finished, empty the tank via the ball valve underneath it and thoroughly wash the tank and spouts.

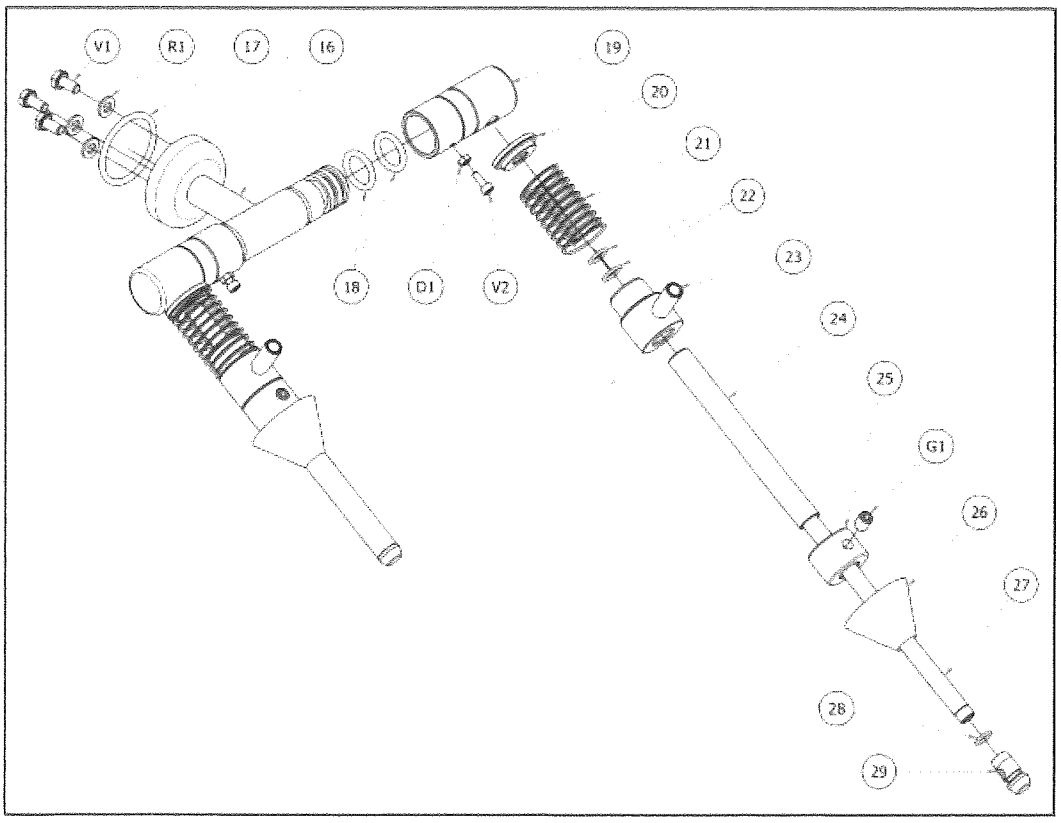
CAUTION Before cleaning, disconnect the filling machine from the mains by removing the plug from the power supply.

WARNING Although it has a sufficient protection rating, electrical equipment must not come into external contact with any liquid.

Warning: Keep the warning and identification plates of the machine clean.

7. SPARE PARTS

For the correct operation of the machine, it is recommended to always use original spare parts supplied by the manufacturer.



V1	Socket head screw 6x12	20	Spout washer
R1	Washer Ø6	21	Spout spring
17	OR 38.7x3.55 NBR	22	OR 10x1.8 NBR
16	Spout bracket	23	Outer spout bushing
18	OR 18x3.55 NBR	24	External spout tube
D1	Hexagon nut M4	25	Spout spacer
V2	Socket head screw 4x10	G1	Grub screw 8x10
19	Inner spout bushing	26	Rubber cone
27	Inner spout	28	OR 8.5x1.8 NBR
29	Spout head		

8. WASTE DISPOSAL AND DEMOLITION

WASTE DISPOSAL

When using the machine, waste substances or scrap are generated during the work process which must be collected, recycled or disposed of in accordance with the laws in force in the country where the machine is installed. The parts of the machine that are replaced must be treated in the same way.

MACHINE DEMOLITION

When demolishing, it is necessary to separate the plastic parts and electrical components, which must be collected in compliance with the current regulations. With regard to the metal mass, it is sufficient to divide the steel parts from those made of other materials or alloys, to deliver them correctly to the recycling facility

CAUTION: any discharged fluids should not be mixed together and must be stored in closed containers, avoiding contamination with foreign substances. Their disposal must be strictly entrusted to the appropriate disposal authorities.

CAUTION: The disposal of materials must be carried out according to the regulations in force for each type of product.

9. GENERAL CONDITIONS OF SALE

TRANSPORT: Charged to the buyer.

CLAIMS: No claims shall be accepted once eight days have elapsed after receipt of the goods and no returns shall be accepted unless authorised by us.

RESERVATIONS: We are not liable for breakage or damage resulting from any use other than those intended for the goods. The warranty does not cover deficiencies and defects in parts that are subject to wear due to their nature, or if the parts delivered are disassembled, tampered with or repaired out of our facility.

WARRANTIES: Our products are thoroughly tried, tested and guaranteed for 12 months after delivery. Our liability is limited to the replacement of any parts found to be defective, after careful examination, to be carried out at our premises or at the Customer's home, with transport and labour costs charged.

DISPUTE: The Court of Vicenza (Italy) has jurisdiction.

TECHNICAL DATA: The technical data in this booklet they are informative and non-binding. The company reserves the right to make changes with no obligation of prior notice.

VIMEG TECHNOLOGIES

DECLARATION

CE

OF CONFORMITY

Drafted by	VIMEG TECHNOLOGIES srl
Via dell'Artigianato 50/B – 36043 Camisano Vic.no (VI) – Italy – Tel. 0444.410175	

WE DECLARE UNDER OUR RESPONSIBILITY THAT THE PRODUCT:

Machine:	**FILLING MACHINE**
Models:	**B10**
Serial no.:	2405
Year of construction:	2024

COMPLIES WITH THE FOLLOWING PROVISIONS

MACHINERY DIRECTIVE 2006/42

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC AS AMENDED

LOW VOLTAGE DIRECTIVE 2006/95/EC AS AMENDED

EC REGULATION no.1935/2004	MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD
EC REGULATION no. 2023/2006	GOOD MANUFACTURING PRACTICE FOR ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD

The relevant technical file is drawn up by Mr. Fabio Raffaello, at Vimeg Technologies Srl, via dell'Artigianato, 50/B – 36043 Camisano Vic.no (VI) – Italy

VIMEG TECHNOLOGIES S.r.l.
(The legal representative)
LORENZO PILLAN

Camisano Vic.no, on. 22/11/2024

VIMEG TECHNOLOGIES SRL
Via dell'Artigianato, 50/B
36043 Camisano Vic.no (VI) - ITALY
Tel. 0444 410175 - info@vimegtechnologies.it
C.F. / P.IVA IT 04093580241
REA di VI N. 378405 C.S. € 30.000,00 i.v.

Date _____

Mod. _____

Ser. no. _____

VIMEG

TECHNOLOGIES

VIMEG TECHNOLOGIES S.r.l.

36043 Camisano Vicentino (VI) Italy - Via dell'Artigianato, 50/B

Telephone: +39 0444 410175

www.vimegtechnologies.it *info@vimegtechnologies.it*