



HMPL-PRE-RBF Automatic Volumetric Liquid Filling Machine



The Automatic Volumetric Liquid Filling Machine consists of a main structure, product transmission belt with an adjustable guide, safety acrylic enclosure with SS pipe frame (OPTIONAL), pneumatic/mechanical stopping facility, nozzle & syringes, electrical panel, motor, sensor, AC drive & mains ON/OFF.

Features

- The machine is manufactured or developed per GMP standards.
- The frame structure & base plate of MS painted cladding and doors of SS 304.
- Rigid vibration-free construction for trouble-free performance.
- The contact parts such as the syringe, and filling nozzle are made of SS 316.
- SS elegantly matt-finished body.
- Conveying system to convey the product with an easily adjustable side guide.
- Self-lubricating UHMW-PE guide profile for SS slat chain provides low friction wear surface, smooth and noiseless conveying.
- Drain tray around the machine platform.
- Drip tray under the conveyor.
- The pharma/food grade PVC braided tubes are used for the filling purpose.
- Elegant and easy control panel for total control of operation.
- All interlocks must be shown on the control panel.
- ± 1 % Filling accuracy on a single dose.
- No Bottle No Filling System – Machine stops at Home position.
- Filling is based on a diving system wherein nozzles go inside the bottle and once the bottle is filled as per the desired volume, it comes out of the bottle.
- Minimum changeover time, from one size to another bottle or fill size.
- Pneumatic/Mechanical bottle-stopping arrangement.

- Synchronized two nos. AC drives for the main motor & conveyor belt.
- The SS measurement scale for filling volume adjustment.
- Safety guard for conveyor gearbox, motor and pneumatic cylinders.
- Inbuilt protection against over current, voltage fluctuation, and short circuit in AC frequency drive.
- Most reliable and proven components such as pneumatics and electrical/electronic such as AC motor, AC Drive, Sensor, MCBs & relay “CE” certified.
- Diving nozzle device.
- Self-lubricating UHMW-PE guide profile for SS slat chain provides a low friction wear surface, smooth and noiseless conveying.
- MCB for overload protection, and prevent against short circuit.
- Inbuilt protection against overcurrent, voltage fluctuation, short circuit in AC frequency drive.

Technical Data

Bottle size (Ø)	15mm Ø to 90mm Ø
Bottle Shape & MOC	Round Glass/PET Bottles
Output speed	30 to 120 Bottles/Minute
Filling Volume	10 ml to 5000 ml
Direction of Movement	Left to Right
Number of Head/Syringe	2/4/6/8/10/12 Nos.
Filling Material	Any Free Flow Non Acidic Liquid (From Water to Honey Viscosity Product)
Power Supply	Three Phase + N + E /415 V AC/50 Hz
Air Supply	4 to 6 Kg/Cm ² (If pneumatic operated stopper)
Height of Conveyor	875 ± 50 mm Adjustable
Net Weight Approx.	450 Kg
Dimensions Approx.	1525 mm L x 1070 mm W x 1370 ± 50 mm H
Change Parts	(A) Syringe: If Volume Higher/Lower