

Vial Filling & Stoppering Machine PAVFRS-200



Automatic Volumetric Liquid Vial Filling Machine works on volumetric principle with diving nozzles. The unit is made compact, versatile and enclosed in stainless steel elegantly matt finish body, consists of S.S. Slat Conveyor, Reciprocating Nozzle with self-centering devices & SS Syringe. No container No filling system arrangement is standard features of the machine. The main drive of the machine and conveyor drive consist of A/c Motor with synchronized variable A/c Frequency Drive.

Operation:

Vials moving on SS Slat conveyor, from Unscrambler to feed below the filling nozzles through a settable twin pneumatically operated stopper system. The twin pneumatically operated stopper system and reciprocating nozzles can precisely match for centering of container below nozzles, to avoid spillage of liquid on container. To minimize foaming adjustable nozzle will reciprocate according to filling dose, nozzle will go upwards slowly from bottom level of Vial towards neck during filling. The dosing block with a hexagonal bolt fitted below syringes. This means fill size can be easily set. Syringes is having non return valve for sucking and delivering situation to avoid volume variation. Liquid will reach to filling nozzles through silicon transparent pipe. Nozzle will be having Up and Down movement with help of cam mechanism and it will come down when vial will be hold by star wheel for filling operation and starts filling when it starts to move up and after completion of filling operation, star wheel delivers four/six vials together on conveyor for rubber Stoppering operation. Stoppering unit consist of Star wheel, Vibrator unit and Bowl. The sterilized /autoclaved rubber stoppers stored in the vibrator bowl moves vertically to the rubber stopper chute. The vial is hold firmly by star wheel, which will be in continuous rotary motion and vial which is coming from filling unit get in to star wheel and move in rotary direction along with star wheel, during movement it will pick up the rubber stopper from the exit end of the chute and rubber

stopper will be pressed by fix pressing roller, which is spring loaded. Then vial further move on and collected on inbuilt scrambler for next sealing operation.

Technical Specification:

Model		PAVFRS-200
Output/Hour*		UP to 12000 vial*
Direction of Movement		Left to Right
Number of head/Syringe		12 Nos.
Fill Size***		1 ml to 100 ml
Power Consumption**	Main Machine	3.0 HP / 415 Volts / 50 Hz.
	Conveyor	0.25 HP / 415 Volts / 50 Hz.
	Unscrambler	0.25 HP / 415 Volts / 50 Hz.
	scrambler	0.25 HP / 415 Volts / 50 Hz.
	Stopper feeding bowl	300 watt magnetic coil
Height of Conveyor**		850 mm to 900 mm Adjustable.
Machine Dimension		3000 mm (L) x 1155 mm (W) x 1450 mm (H)
Case Dimensions		3200 mm (L) x 1350 mm (W) x 1600mm (H)
Net Weight		1200 kgs
Gross Weight		1700 kgs.