

Single Head Ampoule Filling and Sealing Machine DFS-30



The single head ampoule filling and sealing machine is used in the pharmaceutical industry for the filling and sealing of glass ampoules. The machine has a single head therefore known as the single head ampoule sealing machine. It is capable of performing the automatic feeding, filling and sealing of ampoules. It is known as the Lab scale ampoule filling and sealing machine due to its wide application in the R&D laboratories, and institutions. It is used for the filling and sealing of ampoules of different size and dimensions. The specially designed ampoule filling and sealing machine for R&D labs is capable of 10 to 15 ampoules per minute. The machine is equipped with a variable frequency drive for regulation of speed through a speed pot.

Process of operation

The sterilized dry ampoules are loaded directly fed into the hopper. The harmonized starwheel transfers the ampoules to a receiving rack. The receiving rack further delivers the ampoules to the moving rack and transfers them to the machine through pre-gassing. While the ampoules stay in the Pre-gassing, Filling, Post Gassing, Pre-heating & sealing stations, the filling and sealing operation is completed. A stainless steel collection tray automatically collects the filled and sealed ampoules.

Salient features:

- Vibration free SS structure
- SS 316 Dosing syringes and filling needles
- All drives synchronized with single motor
- Pre and post nitrogen flushing unit
- Flow meters for regulation of Nitrogen, LPG and Oxygen gas
- No ampoule No filling mechanism
- Minimum change over time for ampoule size
- All Contact parts made from Stainless Steel AISI 316
- Pre Heating unit also available
- Vertical SS collection tray for collection

Technical features

Here are the technical specifications of the product:

MODEL	DFS-30 (Slant Travel) Off-Line model
NO. OF HEAD	One
AMPOULE SIZE	1ml to 25ml (Dia. 10mm to 22mm)
PRODUCTION / MINUTE	10 to 15
FILLING ACCURACY	± 1%
FILLING TYPE	Piston Pumps Type Filling (Volumetric)
REQUIRED GAS FOR SEALING	LPG + Oxygen
PRE HEATING	Available
NITROGEN FLUSHING	Available (Pre & Post)
CONTACT PARTS	Stainless Steel S 316
NON-CONTACT PARTS	Stainless Steel 304 / M.S. Powder Coated / Nickel Plated
POWER REQUIRED	0.5 H.P., 380-415V, 3Phase, 4 Wire Systems
DIMENSION	910mm (L) X 650mm (W) X 950mm (H)
NET WEIGHT	70
GROSS WEIGHT	180 Approx