

NP-EVF Automatic Horizontal Piston Filling Machine



The NP-EVF is an automatic horizontal piston filling machine that driven by a main servo motor or by air cylinder stroke movement and dosing the liquid. As one of the initial designs in automatic piston filling technology, this machine has maintained its popularity for liquid packaging tasks due to its cost-effective and efficient performance, even after several years of advancements in the field.

Feature

Constructed from 304 stainless steel, the machine ensures durability and hygiene, with liquid contact parts made of either 304SS or 316SS food-grade stainless steel for added safety. It features a sophisticated “no bottle, no fill” system, managed via PLC controls, and includes automatic alerts for operational failures. The machine is designed with filling nozzles that prevent drips, silk, and automatically cut viscous liquids, ensuring a clean, precise fill every time. The accuracy of the filling volume is within $\pm 0.5\%$, complemented by a comprehensive bottle counter.

Maintenance is straightforward, requiring no specialized tools. Its horizontal piston cylinder configuration simplifies the disassembly and cleaning process. For handling corrosive liquids, special SKF seals or hoses are utilized to withstand the harsh materials. The machine also offers the option of diving nozzles for bottom-up filling of foaming products, ensuring versatility across a wide range of applications. Additionally, it can accurately locate the bottle mouth for precise filling, and drip trays are included as a standard feature, enhancing the overall cleanliness and efficiency of the filling process.

Technical Parameters

Model	NP-EVF
Operational mode	Automatic
Product applications	For liquid and viscous liquid
Filling range	100-1000ml or 500ml to 5000ml
Number of heads	2 or 4 heads
Filling Capacity	500b/h to 1200b/h base on 1000ml viscous liquid
Measurement precision	±0.5% base on 1000ml
Working power	220VAC single phase
Air pressure	6~8kg/cm ²
Air consumption	1m ³ /min
Power rate	0.8kw to 1.5KW
Other devices power rate	7.5kw (air compressor)
Net weight	320Kg