VR2 SERIES LIQUID FILLING

The VR2 filler is a reliable, high performance aseptic liquid filling machine, conforming to current cGMPs. This series uses existing overhead laminar air flow to its fullest - using a straight-line concept and small footprint, effective in maintaining the integrity of a clean room environment.

The Cozzoli simple two-piece filling syringes and valve assemblies are designed for sterile, bacteria-free environments. High precision machining of our filling syringes allows each machine to achieve a fill accuracy of +\- 1/2 of 1% by volume, or better. Other fill methods, such as diaphragm, peristaltic, etc. are also available.

Changeover for various container heights and nozzle stroke adjustment is made easy, with simple calibrated hand-wheel features.

FILL PRINCIPLE

Containers are positioned in the machine by a feed screw. A diving nozzle system provides bottom-up filling on a range from 0-4" (101.6mm). This system eliminates the need to change cams and speeds up changeover. A drop control mechanism eliminates a hanging drop at the completion of the fill cycle.

CONTROLS

The PLC controls intermittent container handling through the timing feedscrew.

This feedscrew can be set to multidose, which provides maximum production for large fills, or when running foamy products.
COZZOLI MACHINE COMPANY

VR2 - OPTIONS AND ACCESSORIES

Automatic makeup and backup controls for smooth line operation
Combination filling & flushing nozzles for nitrogen flushing during filling
Fine adjustment volume control
Electronic volume control
Dual-track filling for higher speeds
Down vial eliminator
IQ/OQ/PQ Protocols (written)
Air/Vacuum cleaning assembly
Various electrical and controls configurations
Explosion proof electrical
Diaphragm pumps for shear sensitive products
Stainless steel frame
Centering devices
Remote operator console

Standard Specifications

Number of Syringes 2 to 12
Maximum Syringe Size up to 120 cc
Syringe Stroke 50mm or 2"
Nozzle Elevation Adjustment 76mm or 3"
Container Movement Intermittent
Cycles per Minute Up to 30
Containers per Minute Up to 230
Maximum Container Height 203mm or 8"
Maximum Container Diameter up to 76mm or 3"
Minimum Container Diameter 20mm or 5/8"
Conveyor Type Stainless steel conveyor bed with raised 3 1/4" (82mm) Delrin Top
Conveyor Travel Left to Right
Conveyor Speed per Minute 0 to 18288mm
Conveyor Length Ctr to Ctr 1524mm
Bottle Spacing Feed screw
Main Motor Electricals 3/4hp D.C. Motor
Conveyor Motor Electricals Worm Gear Motor
1/4hp; 115V D.C.;
115V; 60Hz; 1Ph
Approx. Crated Dimensions Filler only (WxDxH) 4140mm x 1600mm x 1905mm
Approx. Net Weight 1360 kg or 3000 lbs.
Approx. Gross Weight 1588 kg or 3500 lbs.

... and more OPTIONS

Full length feed screw or gating
Flow meter assemblies
Right to left configuration
Monoblock configuration (shown below with stoppering)

Model VR2/S drawing shown above with monoblocked Cozzoli RS400 stoppering system to fill and stopper on one machine.

Cozzoli Machine Company is an international leader in the design, manufacture, distribution, and service of precision cleaning, filling, and closing systems in stand-alone or monoblock versions. Since 1919 the company has been serving the pharmaceutical, biotechnology, diagnostic, cosmetic, and chemical industries.