PROVEN VERSATILITY AND RELIABILITY

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 it's 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.



VR2/S Monoblock filler/stopper system shown.

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.



Control panel shown with optional remote umbilical mount

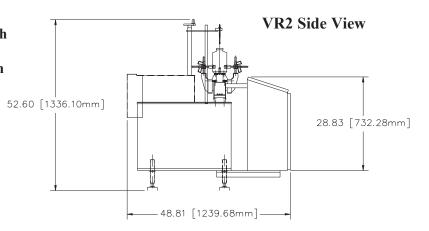


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VR2 - OPTIONS AND ACCESSORIES

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**



... and more OPTIONS

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

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
Minimum Container Diameter	20mm or 5/8"

Conveyor Type

Conveyor Travel Conveyor Speed per Minute Conveyor Length Ctr to Ctr

Bottle Spacing

Feed screw

Main Motor Electricals Conveyor Motor Electricals

Approx. Crated Dimensions Filler only (WxDxH)

Approx. Net Weight **Approx. Gross Weight**

Left to Right

1524mm

0 to 18288mm

3/4hp D.C. Motor Worm Gear Motor 1/4hp; 115V D.C.; 115V; 60Hz; 1Ph

Stainless steel conveyor

bed with raised 3 1/4" (82mm) Delrin Top

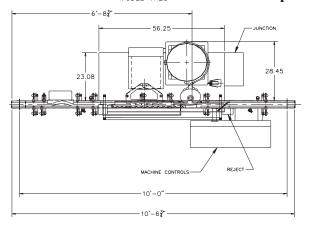
4140mm x 1600mm x 1905mm

3"

1360 kg or 3000 lbs. 1588 kg or 3500 lbs.



COZZOLI MACHINE CO. VR2/S Top View MODEL VR2S



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.

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PROVEN VERSATILITY AND VR2PP SERIES LIQUID FILLING MACHINE

The VR2PP Series are reliable, high performance aseptic liquid filling machines using peristaltic pump technology. The Cozzoli Peristaltic Pump Filling System utilizes the latest innovations in single-use technology. Advantages include reduced costs, quicker set up, less waste and completely eliminates cleaning process. Designed with Class 100 clean rooms in mind, the VR2PP Series uses a straight line concept with a small footprint and is built for reliability, easy operation and accuracy. The VR2PP models are available with 2 heads, 4 heads, 6 heads or 8 heads.

Changes for various container heights are made with the servo drive height adjustment feature. Nozzle stroke adjustments are also made via servo drive.



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.

A PLC controls intermittent container handling through the machine.

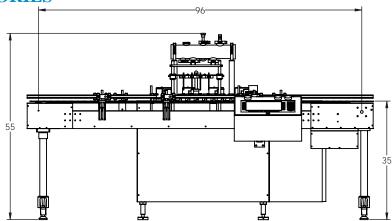
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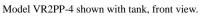


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VR2PP SERIES - OPTIONS AND ACCESSORIES

Automatic makeup and backup controls for smooth line operation Combination filling & flushing nozzles for nitrogen flushing during filling Down vial eliminator IQ/OQ/PQ Protocols (written) Air/Vacuum cleaning assembly Various electrical and controls configurations Remote operator console Lexan Enclosure with laminar flow hood



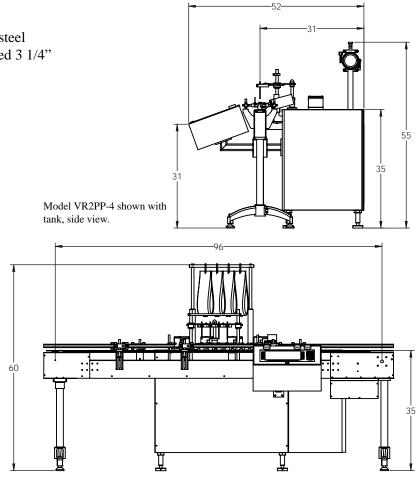


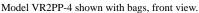
Standard Specifications

Stainless steel frame Conveyor Type

conv
DelrConveyor TravelLeftConveyor Length Ctr to Ctr8 feeNumber of pumps2 toFill SizeSeeNozzle Elevation AdjustmentUp tContainer MovementInterCycles per MInuteUp tContainers per MinuteUp tMaximum Container Height203rMaximum Container DiameterUp tMinimum Container Diameter16mBottle SpacingFeedElectricals115

(STD) Sanitary type stainless steel conveyor bed with raised 3 1/4" Delrin Top Left to Right (STD) 8 feet c to c 2 to 8 See tubing chart below Up to 4" Intermittent Up to 30 Up to 240 203mm or 8" Up to 76mm or 3" 16mm or 5/8" Feed screw 115V 60Hz/1 Ph





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		00	0,0	/4
es based on a typical fill time range of 0.5 to 1.0	al fill time range of 0.5 to	ates based on a	Max. Fill Rat	*Min. and

Fill Rate

*Max. [ml\s]

2

8

16

32

64

_

50 Schoolhouse Road Somerset, NJ 08873-1289 USA

Tubing

Fill Rate

*Min. [ml\s]

-

.8

2

5

12

30

OD

[inches]

5/32

3/16

7/32

1⁄4

5/16

3/8

ID

[inches]

1/64

1/16

3/32

1/8

3/16

1/4



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