

Filling machines series Multifill-VRmp



available as Monoblock or as In-line-System

Filling unit:

Overview on basic dosing systems

| | |
|-----------------|---------------------------|
| Series MF | mechanical piston fillers |
| Series MF servo | servo driven piston files |
| Series MF FM | flow meter fillers |
| Series MF V | vacuum fillers |
| Series MF RD | rotary piston fillers |



example: MF Servo
piston filler, servo



example: MF FM
flow meter filler

Valve systems:

cone valve
cock valve
diaphragm valve
butterfly valve
needle valve
special valve systems of different products

Filling ranges:

| MF | MF Servo | MF FM | MF V | MF RD |
|------------|------------|-------------|-----------|------------|
| 25-250ml | 5-50ml | 1-500ml | 10-2000ml | 2,5-25ml |
| 50-500ml | 10-100ml | 10-1000ml | | 5-50ml |
| 100-1000ml | 50-500ml | 50-5000ml | | 10-100ml |
| 250-2500ml | 100-1000ml | 100-10000ml | | 25-250ml |
| 500-5000ml | 250-2500ml | 250-25000ml | | 50-500ml |
| | 500-5000ml | | | 100-1000ml |

Standard features:

| | |
|-----------------------------|--|
| Number of filling stations: | 2-6 (alternatively 2-8 or 2-12) |
| Product contacting parts: | stainless steel AISI 316 Ti alternatively: Titanium, Hastelloy, Plastics or Ceramics |
| Filling nozzle type: | positive shut-off-nozzle optionally: blow-off nozzle vacuum-resuction |
| Machine casing: | stainless steel AISI 304 |
| Drive: | 400 V, 3 phase + 0 + earth |
| Compressed air: | 7 bar |
| Sealings: | Perbunan, Viton, PTFE or EPDM others on request |
| Optionals: | bottle unscrambler capping machine labelling unit ink-jet printer |

Capping unit:



example: in-line-version, for Monoblock see pages above

Standard equipment:

basic machine with mechanical indexing table
12 stations (alternatively 16 or 24)
pneumatic cap dispenser
capping station for 1 cap type

available for:

screw caps
drop inserts
press-on caps
flip-top caps
cup to cup closure
pipettes
brushes
spray pumps
triggers
rubber stoppers
crimp caps
ROPP caps
and many other types

Faces and Features:**Application example:**

Inserting station for dry cartridge
cap applicator with pre-twisting unit
air-cleaning of caps at supply chute
detection sensor for aluminium foil inside cap
servo capper with gripper style capping head
cap detection and inspection station
pusher for bottles detected as "faulty"
full Network interface and data processing

**Integrated user-friendliness:**

Quick and easy changeover and adjustment
either by crank and position indicator
or by fully automatic height positioning system
changeover instruction on request over HMI
plug-and play-design for most size parts.

Selection of basic VRmp-configuration

The machine is available with 12, 16 or 24 indexing stations, furthermore for 3 different bottle sizes.

The combination of indexing stations and the maximum bottle size define the basic machine type.

| Max bottle base size | Number of indexing stations | | |
|----------------------|-----------------------------|-----------|-----------|
| | 12 | 16 | 24 |
| Ø 80 mm | VR-mp 100 | VR-mp 110 | VR-mp 120 |
| Ø 100 mm | VR-mp 200 | VR-mp 210 | VR-mp 220 |
| Ø 150 mm | VR-mp 300 | VR-mp 310 | VR-mp 320 |
| 400x300 mm | VR-mp 400 | VR-mp 410 | VR-mp 420 |

For large containers we supply the machine alternatively with feed screw instead of indexing table.

Selection of machine drive system:

The capping machines series VR-mp are available in a great variety of drive configurations. The drive code of the machine explains which movement is driven by which method.

| | |
|---|---|
| m | mechanical drive (electromotor, with rotary or linear gear) |
| e | electric drive |
| p | pneumatic drive (pneumatic cylinders) |
| s | servo drive |

| Drive code | - mpp | - mep | - mee | - msp | - mse | - mss | - sss |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| Indexing table drive | m | m | m | m | m | m | s |
| Capping motor drive | p | e | e | s | s | s | s |
| Lifting of capping head | p | p | e | p | e | s | s |

Example: Capping machine VR-mp, maximum bottle diameter 100mm, 12 capping stations, indexing table mechanically driven, capping motor servo driven, lifting of capping head mechanically

Machine type key: VR-mp 200 –mse

Depending on requested output and cap type we offer following methods of cap-infeed:

- manually on a chute or on a conveyor
- via cap rotary table
- via vibration sorting machine
- via disk sorting machine
- via turbo sorter
- other systems on request

Typical Multifill Line with capper in Monoblock-version



Typical Multifill Line with capper and labeller (in-line-version)

