



# FILLING AND CLOSING MACHINE FOR AMPOULES AND VIALS TYPE R941/MA-G



## Standard equipment

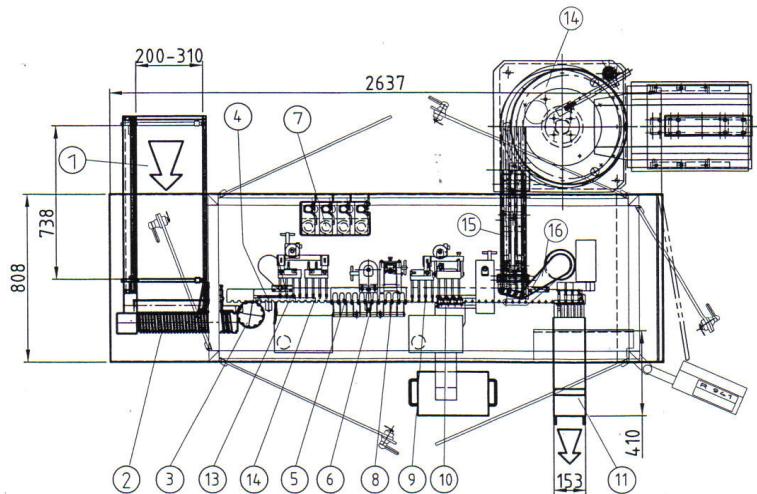
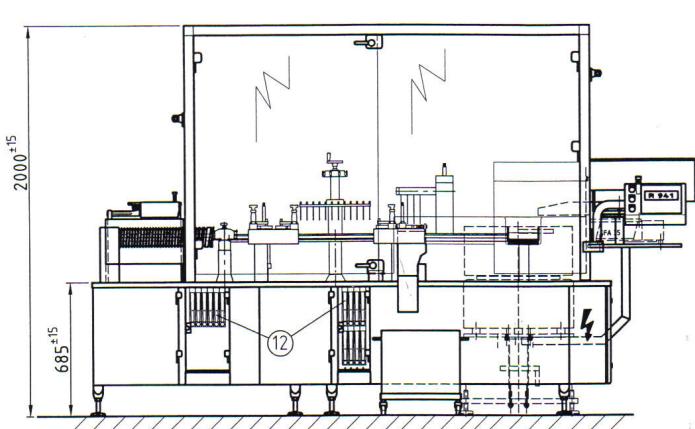
- Adjustable infeed magazine
- Product range: ampoules 1 – 30 ml
- vials 2 – 10 ml
- Max. diameter: 24 mm
- Output up to: 12.000/h
- Four filling stations. Dosing by means of seal-less rotary piston pumps made of stainless steel SUS 316L or ceramic.
- Filling range: 0,2-2 ml / 1-5 ml / 2-10 ml / 6-30 ml
- Features „no object – no filling“  
„no vial – no stopper“
- PLC control Siemens S7 with 5.7" colour touch screen operator interface
- Interlocking safety cabinet
- Change parts set for one object size
- Change part set for sorting and feeding for one stopper size
- Heat exhaust device
- Mechanical draw-off
- Outfeed magazine

## Options

- Special dimensions for infeed and outfeed magazine
- Special infeed for connection to sterilisation tunnel
- Opening station for closed empty ampoules Form D acc. to DIN/ISO 9187
- Special design for vials up to 30ml, max. diameter 32 mm
- CIP/SIP capability
- Dosing with peristaltic pumps
- Inert gas supply before, during and after filling as well as during sealing
- Inert gas supply deficiency control
- Laminar flow hood
- Gas compressor
- Pump moistening device
- Diverse filters for gasses and medium
- Further options on request

## Features

The linear filling and closing machine type R941/MA-G is suitable to process ampoules and vials for filling any liquid, either under sterile conditions or not. Closing of ampoules with flames and closing of vials with stopper is automatic. A comprehensive list of optional features and accessories allows this machine to be provided to meet the individual requirements of each customer and application.



The inclined metal belt gently pushes the bunch of ampoules/vials towards the infeed screw, which separates and transports them to the intermediary wheel to be handed over to the transport rake. The transport rake hands gradually the ampoules/vials over the machine through the opening station (option), filling station (pre-gassing, gassing during filling and post-gassing are optionally available) and sealing station.

Ampoules/vials are filled by means of four rotary piston pumps (accuracy better than  $\pm 0.5\%$ ). The ampoules are centred in order to allow the gassing and filling needles to move into the ampoules without touching their neck. Closing of ampoules by flames. The complete change over to vials takes only 30 minutes as there are nearly no parts to be dismantled from the machine.

The stoppers are sorted out in a corresponding bowl located near the machine and brought below a pick and place arm through a vibrating linear conveyor.

The arm picks the stopper by means of vacuum and places it onto the centred vial.

After the sealing station, the filled and sealed ampoules/vials are gently pushed out of the transport rake by an exiting finger into the outfeed magazine. The ampoules/vials can then be discharged from the outfeed magazine by means of suitable trays.

Vials can also be transferred to the next processing machine (e.g. capping & crimping) through a conveyor belt directly.