



# VIALS FILLING & CLOSING MACHINE

## TYPE FLR150



### **Standard equipment**

- Adjustable infeed magazine
- Product range: 1 – 30 ml  
Max. diameter: 32 mm  
Output up to: 9.000/h
- One filling station. Dosing by means of seal-less rotary piston pumps made of stainless steel SUS 316L or ceramic.  
Filling ranges: 0,2-2 ml / 1-5 ml / 2-10 ml / 6-30 ml
- Feature „No vial – no filling“  
“No stopper/dropper – no cap“
- PLC control Siemens S7
- Operator interface with coloured touch screen 5.7“
- Interlocking safety cabinet
- Change parts set for one vial size
- Change parts set for one stopper/dropper kind and size
- Change parts set for one cap kind and size
- Outfeed magazine

### **Options**

- Special dimensions for infeed and outfeed magazine
- Inert gas supply before, during and after filling as well as during sealing
- Inert gas supply deficiency control
- Laminar flow hood
- Pump moistening device
- Diverse filters for gasses and medium
- Special infeed system for line integration
- Turntable infeed/outfeed
- Conveyor belt infeed/outfeed
- Control devices
- Batch protocol printer
- CFR 21 Part 11 compliant industrial PC
- Further options on request

### **Features**

The vial filling and closing machines type FLR150 are suitable for filling any liquid, either under sterile conditions or not.

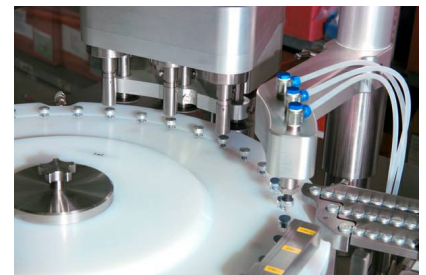
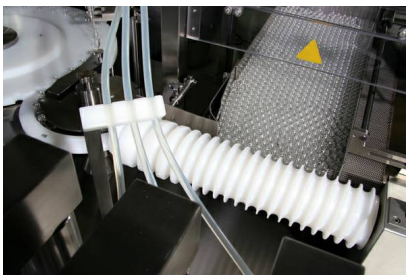
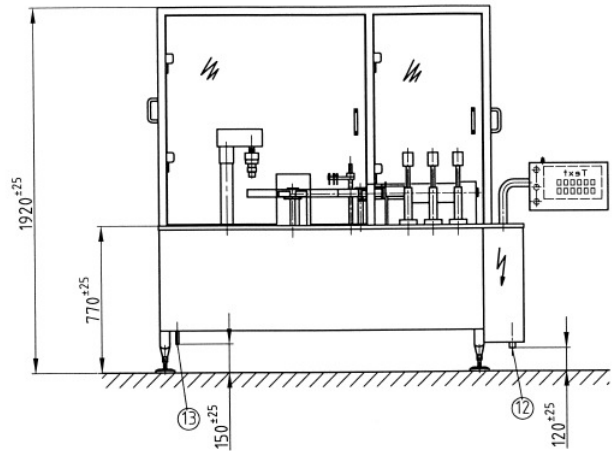
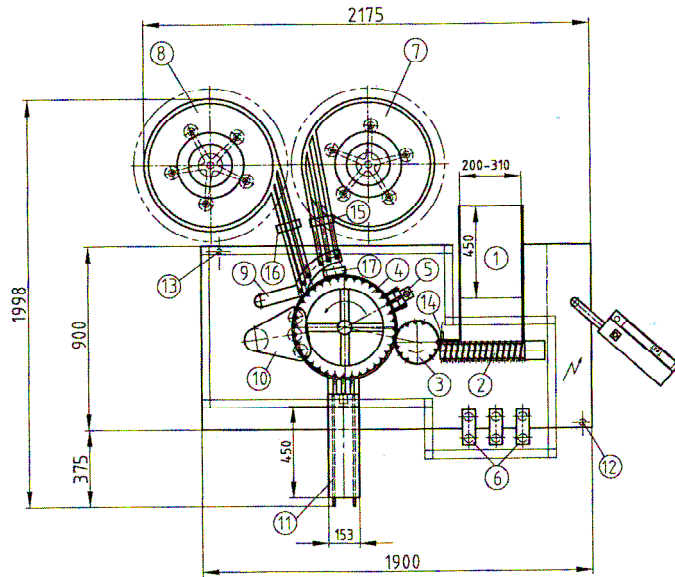
Since vial processing means also facing a wide range of vial types and closure types, the FLR150 machines are available in many versions, some of them being able to :

- Fill and close with rubber stopper (FLR150/G) / Vial crimping (FLR150/B)
- Fill, close with rubber stopper and crimp with alu-caps (FLR150/GB)
- Fill, close with rubber stopper and close with screw caps (FLR150/GS)
- Fill and close with screw caps (FLR150/S)
- Fill, insert a dropper and close with screw caps (FLR150/TS)



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Vials are charged to the infeed magazine. The width of the magazine is infinitely adjustable between 200 – 310 mm, the length is 450 mm. At the end of the magazine the infeed scroll separates the vials and hands them over to the star wheel.

The transport main star wheel hands gradually the vials over the machine through the filling station (pre-gassing, gassing during filling and post-gassing are optionally available) and closing stations. Thus a careful object transport is ensured, especially when handling non stable vials.

When handling stable vials, the infeed can happen also with a turntable, or via an unscrambler when processing plastic vials (e.g. eye drops).

At the filling station three vials are simultaneously filled through three seal-less rotary piston pumps (accuracy better than  $\pm 0.5\%$ ). The feature "No vial – no filling" is standard.

After the closing station, the filled and closed vials are gently pushed out of the transport star wheel by an exiting finger into the outfeed magazine, where they can be discharged by means of suitable trays.

When the vial has to be sealed with alu-caps or flip-off caps, the machine FLR150 is equipped in standard with crimping discs, reducing potential air turbulences that may happen using standard crimping heads.

For stable vials, the outfeed can also happen on a turntable or on a conveyor belt, directly connecting the FLR150 to other processing machines.