



Crystal[®] M1 Filling Station

Laboratory equipment for Closed Vials

Filling process

Optimized for batch size ranging from a few up to ~1,500 vials, the Laboratory **Crystal[®] M1** Filling Station has been designed to fill typically research lots, stability batches and niche commercial products.

The full process is made of the following steps:

1. Filling

- The vial is placed manually on its supporting base;
- Piercing of the stopper is accurately achieved (stroke and centering) by simple action on the lever;
- Filling is performed with e.g., a peristaltic pump before needle withdrawal.



2. Laser re-sealing

- The vial is manually transferred into the laser safety cabinet;
- The laser control unit, installed outside the ISO5 containment, is activated via the remote controller located inside the containment;
- The puncture trace is re-sealed by a laser shot on the stopper surface.



- ##### **3. Capping**
- is performed by simple snap-fit of a plastic cap.



Crystal[®] M1 Filling Station in a PSI-M isolator from Skan



Crystal[®] M1 Filling Station in a BSC



Key facts

Laboratory Crystal® M1 Filling Station	
Applications	Aseptic filling of liquid and freeze-dried parenterals. All types of products.
Vial format	Compatible for all vial format (1 to 50 ml), multiformat by design
Output (2ml vials)	Manual operations, up to 1,500 vials per shift ^(*) .
Filling volume	0.1 ml to 50 ml + overfill.
Filling accuracy	Typically 1%, depends on filling pump selected.
Dimensions	Core equipment is easily placed inside a safety cabinet or an isolator.
Utilities	Electricity only, no water, no compressed air.
Materials	AISI 316L.

(*) With two operators.

Setup

The Laboratory **Crystal® M1** Filling Station can be installed in various types of containment with various features:

Containment systems

- Bio Safety Cabinet (BSC);
- Laminar airflow (LAF) cabinet with glove access into the filling area;
- CVFS¹ with glove access into the filling area;
- Isolator.

Material entry/exit systems

- Direct entry during sanitization;
- Mousehole;
- RTP (Rapid Transfer Port);
- H₂O₂ decontamination airlock.

Laser control unit housing

- Standard housing for ISO8 clean room environment;
- Special housing in closed box for ISO7 clean room environment.

More information available on our website www.aseptictech.com

Aseptic Technologies S.A. reserves the right to make any changes to the described equipment and characteristics without notice.

¹ “CVFS - Closed Vial Filling System” is defined as “An aseptic filling system providing an environment achieving uncompromised Class ISO 5 protection that surrounds containers which are delivered closed and sterile inside, are filled through their stoppers and then immediately re-sealed to preclude the possibility of microbial ingress”.