

S 5250 SAMPLE INJECTOR SYSTEM

The **Sykam S 5250 Sample Injector System** is a very flexible and powerful HPLC autosampler with excellent reproducibility and linearity properties. Variable vial racks and adaptors for microtiter plates as well as a multitude of firmware options make this system highly adaptable and suitable for any analytical application.

Robust Design

Durable X/Y/Z-Sampling

The **S 5250 Sample Injector System** features a mechanically durable X/Y/Z-Sampling-Mechanic designed for long life operation. The self-lubricating bearings keep the routine maintenance at a minimum and avoid troubles caused by dusty environments. High precision stepper motors drive the X/Y axis for accurate positioning. Microstepping mode enables a high resolution for the syringe dosing and vial positioning.

Dual-Needle Design

The Dual-Needle design of the **S 5250 Sample Injector System** avoids system blockages caused by septum particles injected into the system. The ventilation needle pierces the septum before the injection needle moves into the sample vial (see figure on the right). As the more fragile injection needle does not need to pierce the vial septum, stronger vial caps or plastic vials can be used without problems.



Accessibility

The injection valve with sample loop and injection port can be accessed directly from the instrument front without removing any protective covers. The dosing syringe can be accessed from the side of the instrument through a hinged glass panel. The exchange of the syringe can be done without the requirement of any tools.

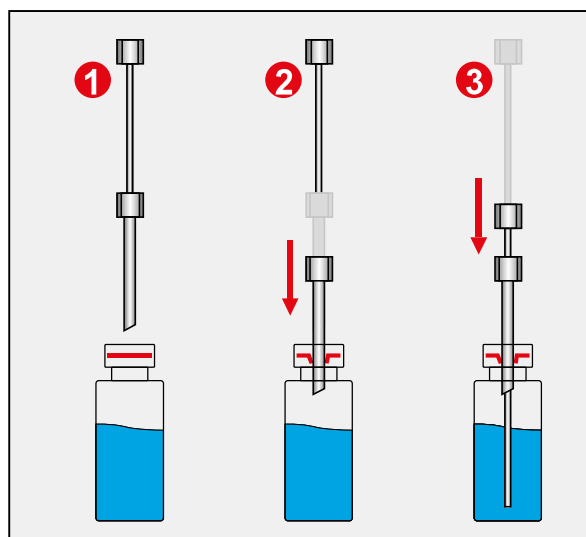


Figure: Dual-Needle Injection