

The SyrDos™ is a syringe dosing device consisting of two pump drives. These can be controlled independently or in combination, which allows for a variety of modes of operation.

In tandem mode, for example, feeding is continuous and almost bumpless. Feed rates from 0.31 µl/min to 156 ml/min, depending on syringe type and speed are possible.

SyrDos™ syringe dosing devices allow to dose precisely, even against a pressure up to 21 bar.

- ✓ 0.31 µl/min to 156 ml/min
- ✓ Chemically highly resistant
- ✓ Continuous high precision dosing
- ✓ Comprehensive syringe portfolio
- ✓ Miscellaneous dosing modes

## Areas of Application

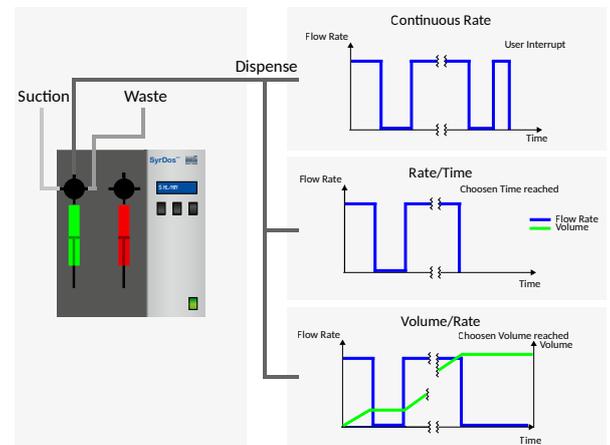
- » High precision dosing and dispensing of minimal quantities
- » Low pressure surge, continuous dosing of liquids with the combination of both syringe modules
- » Dosing against pressure
- » Mixing of liquids

## Dosing Modes

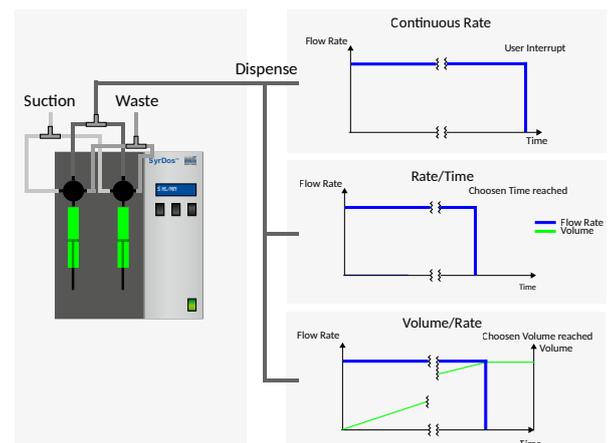
- » Continuous dosing with set flow rate
- » Dosing over a defined period with set flow rate
- » Dosing of a specific volume with set flow rate



Single Mode



Tandem Mode





## SyrDos™ Characteristics

The selection of chemically resistant materials, such as borosilicate glass, PTFE, PPS-UHMWPE or  $Al_2O_3$  allows dosing of a wide range of different liquid substances.

Syringes for the SyrDos™ are available with volumes between 50  $\mu$ l and 25 ml.

By interconnection of both pump drives in tandem mode, a continuous dosing can be achieved. Using a special algorithm, pressure peaks during the switching process in tandem mode are minimized.

By using the RS-232 or the analogue interface, the SyrDos™ can be controlled remotely, by example via a process control system. Likewise the control of the valve ports is freely selectable and thus allows for a large range of setting options.

An optional pressure sensor allows monitoring the process pressure during dosing and to define a maximal cut-off pressure.

The valve ports have a 1/4"-28 thread, which by means of a fitting allows for pipes to be attached.

Using an optional dispensing switch the SyrDos™ can be operated by hand or foot. In doing so, a configurable volume is dispensed by pressing the switch.

The pump can easily be integrated into a LabVision® project with the SyrDos™ device component.

### Available Valves

3 port valve	Wetted parts made of PTFE and PCTFE Nominal pressure 15 bar
6 port valve	Wetted parts made of PPS-UHMWPE Nominal pressure 1.5 bar
9 port valve	Wetted parts made of $Al_2O_3$ Nominal pressure 21 bar

### Specifications

- » High pressure valve up to 21 bar (42 bar test pressure)
- » Feed rates from 0.31  $\mu$ l/min to 156 ml/min
- » Valve connections 1/4"-28
- » Wetted parts made of Borosilicate glass, PTFE and depending on the valve  $Al_2O_3$ , PCTFE or PPS/ UHMWPE
- » Degree of protection IP20
- » Pressure monitoring (sensor required)
- » Remote control via RS-232 or analogue interface 0...5 V/4...20 mA
- » Dimensions (WxHxD): 225 x 270 x 195 mm (without valve and cable)
- » Weight approx. 10 kg

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