

New Innovative Double Syringe Pump Launched

Thanks to a technical innovation, **Spetec GmbH** has succeeded in developing a double syringe pump that does not require the syringes to be manually replaced for applications that run with the same liquid over a long period of time. A simple spindle with staggered power transmission to the syringe pushers, driven by a stepper motor, enables the simultaneous drive of two separate syringes.

While the first syringe is being emptied, the second syringe can be completely filled in the meantime. Even large delivery volumes can be delivered constantly over long periods of time pulsation-free, without the need to constantly change syringes manually.

The image shows the motor unit of the Spetec GmbH Symax double stroke pump. The connection plug for the computer can be seen right below. On the upper support plate, the two heads of the syringe holders are shown with the spindle slot underneath. A quick release device facilitates a fast exchange of both syringes.

Ready-made syringes (made of polypropylene - PP) with 5ml, 20ml and 50 (PP) ml can be used, but the holder of each syringe also allows the use of custom-made syringes with an outer diameter of 9 to 34 mm. For each syringe, the flow rates can be varied over a range of 6 orders of magnitude using the software supplied (alternatively directly with the Lab View software). Depending on the syringe volume, flow rates from 0.03 nL/s up to 760 μ L/s can be easily set. Several double syringe modules (up to 6 in a combi bank) can be controlled individually via the control software.

All variables of the dual syringe pump can be programmed individually, from a single injection to continuous delivery, so that a very wide range of applications can be covered, depending on the choice of syringe. The double syringe pump is ideal for such applications in medical technology, analytics, research and the chemical industry where the smallest volumes of liquid have to be dosed very precisely over long periods of time pulsation-free at extremely low flow rates.

More information online: ilmt.co/PLpDVV

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