



Dosing and filling systems  
for low to high viscosity media  
**Pharma and Biotechnology**



# The perfect solution to any application

Thanks to the modular design of the dispenser series and its various automation concepts, ViscoTec provides the ideal solution suitable, for example, for different media and applications, which can be integrated into multi-row filling production lines, quick and easy product changeover, filling in semi-automatic mode, such as small batches during development phases. Furthermore if conditions or the product are changing, the dosing system can be adapted quickly to the new requirements by the flexible configuration.



Ideal for high viscous products

### Irrespective of viscosity

Through versatile filling technology; - Highly viscous pharmaceutical or biotechnological products such as suspensions, hydrogels, pastes or pasty creams and liquid media are all perfectly dosed. Suitable even for abrasive products such as polishing compounds for dental applications.

### Gentle product processing

Especially gentle filling of pharmaceuticals - even with solid particles. Conveying or dosing of structure sensitive biotechnological products such as bacterial suspensions - thanks to the low-shear endless piston principle.

### High precision

Reliable dosing with a deviation of only  $\pm 1$  % in volumes (from 0.2ml) through absolute linearity between the rotor speed and the output quantity. Controlled break of the thread (= no drip effect) through adjustable reverse flow after dosing.



## Hygienic Design

- GMP-compliant design
- EHEDG certificate
- product contacted parts in stainless steel 1.4404 (316L) with inspection certificate 3.1,  $Ra \leq 0.8 \mu m$
- FDA-compliant elastomers
- dead-leg free dispenser housing
- quick and toolfree dis- and assembling
- all product contacted parts autoclavable
- hermetically sealed process area to protect the product and the environment
- drive with hygienic encapsulated servomotor
- valveless technology

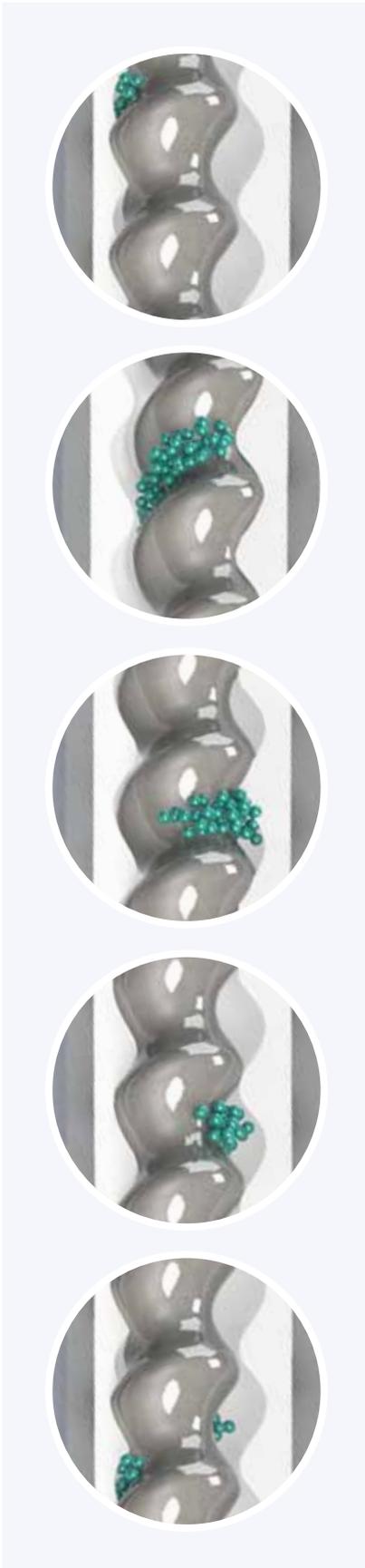


## Endless piston principle

Our technology belongs to the group of the rotary positive displacement pumps. The stainless steel rotor moves thereby eccentrically in the elastomer stator.

Chambers are formed through the interaction between rotor and stator. The size of the next opening chambers is therefore constant during the rotation, so that there is no compression of the pumped product.

The endless piston geometry allows a precise, unarmful and pulsation-free product flow.



# Benefits



-20°C - 80°C



±1% deviation



sterilizationable



reverse flow



cycle times up to 0.5 sec.



pressure stable



simple & perfect



assembly time of 1 dispenser < 1 min.



subsidiaries on 3 continents



viscosities up to 5,000,000 mPas



customer training



35,000 pumps installed around the world



on site commissioning



own development and elastomers production



skilled personnel



made in germany



in-house laboratory



100 employees worldwide



30 years' experience in endless piston principle



delivery within a week



service hotline

## Specialist for high-viscosity media

ViscoTec Pumpen- und Dosiertechnik GmbH is a company from Töging, east of Munich which primarily deals with systems required for conveying, dosing, applying, filling and emptying medium to high-viscosity media.

### Comprehensive service and consulting

ViscoTec not only provides you with apparatus, we also offer a complete range of services: advice and concepts in the initiating stage, customer specific test series in our in-house customer laboratory, pre-commissioning and training. Our experienced engineers will help you find an optimal individual solution to your needs. If you have any questions after our product is delivered and upon successful commissioning, we will be happy to be of assistance.

### Customer laboratory

We will analyse the product you want to process and test it in our in-house laboratory - based on this, we will offer you a guaranteed working solution.

### Spare parts

All common spare and wear parts for our products are permanently available in our spare parts stock, resulting in low maintenance durations and downtimes for you.



Perfectly dosed!

