



PHARMACEUTICAL DOSING SYSTEM

Process-reliable and pulsation-free dosing and filling of highly viscous, solids-laden or semi-solid materials.





APPLICATION EXAMPLES

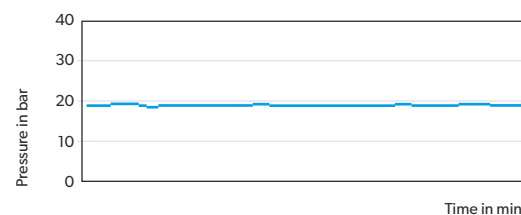
ViscoTec offers ideal solutions for the high-precision and shear-sensitive filling, feeding and dosing of liquid to highly viscous pharmaceutical products.

Different parameters are important depending on the application. For example, pulsation-free with continuous dosing, process reliability when filling highly viscous liquids or protecting the product when handling solids-laden liquids.



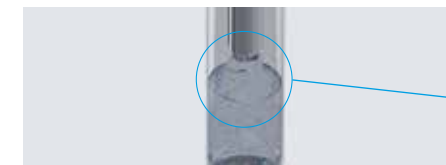
PERFECT FOR CONTINUOUS DOSING

- Pulsation-free
- Pressure-stable up to 20 bar dosing pressure
- Constant material feed from 0.18 ml per minute



SIMPLE DOSING SOLUTIONS FOR HIGHLY VISCOUS MATERIALS

- Not dependent of viscosity up to 5,000,000 mPas
- Suck-back for defined thread breakage and drip-free dosing
- Dosing tolerance $\pm 1\%$



PROCESS RELIABLE HANDLING OF SOLIDS-LADEN PRODUCTS

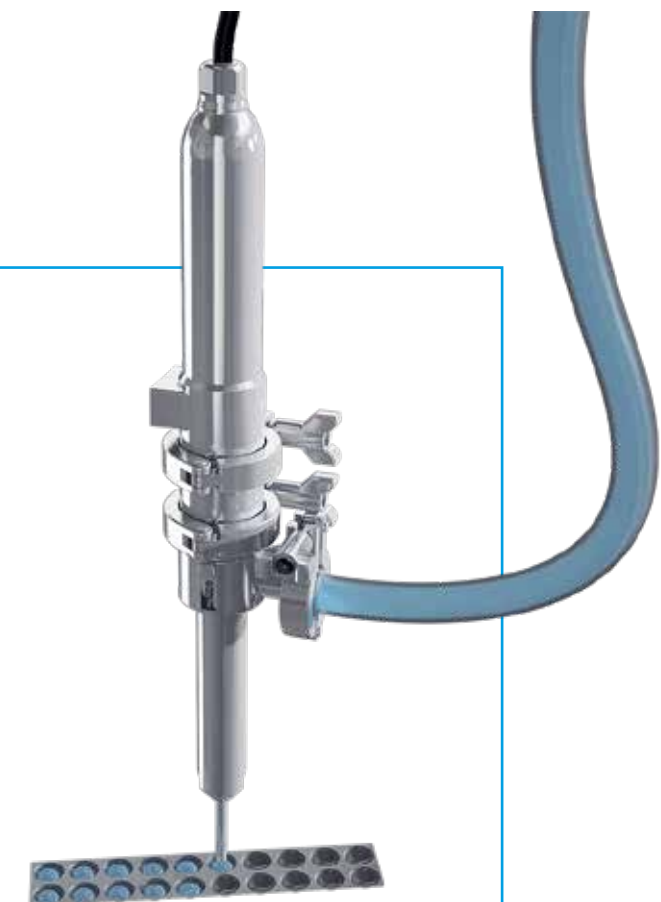
- Small quantities from 0.1 ml
- Product-gentle filling of shear-sensitive materials
- Dosing of abrasive products



before



afterwards



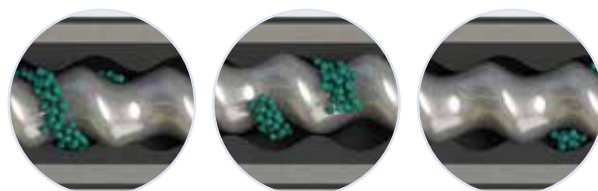


TECHNOLOGY

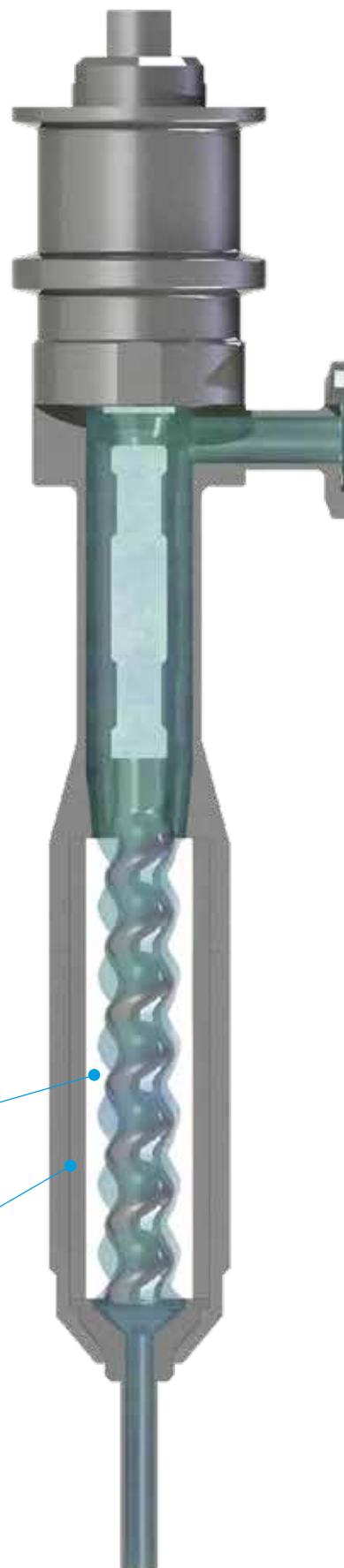
The principle of our systems is one of the rotary positive displacement pumps. The stainless steel rotor moves eccentrically in an elastomeric stator.

The interaction of the rotor and stator creates cavities. The size of the alternating opening cavities remains constant during rotation, so that the product being fed is not compressed.

This geometry enables a precise, product-friendly and pulsation-free product flow.



- Fast and tool-free installation
- Hygienic Design / GMP compliant design
- Also in CIP-compatible design
- Autoclavable, FDA compliant elastomers (resistant to chemically aggressive products and detergents)
- Corrosion-resistant stainless steel 316 L, $R_a \leq 0.8 \mu\text{m}$



DOSING SYSTEM

In addition to dispensers, ViscoTec GmbH offers complete product handling for dosing and filling applications. Feed and treatment units and the associated control technology allow for the supply of the dispenser and ensures that the process can be validated.

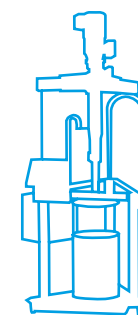
The complete systems are specially adapted to each individual application and are easy to integrate, even within an existing process.

Always in focus: the requirements of the pharmaceutical industry.

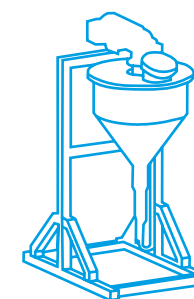


MODULAR SYSTEM

We adapt your system individually to your process and offer you additional engineering and consulting.



Material withdrawal



Material preparation



Dosing



MATERIAL EXAMPLES

With a versatile dosing technology, both highly viscous medical products or pharmaceuticals such as gels or ointments, as well as highly filled suspensions or abrasive pastes, can be simply and perfectly dosed.



CUSTOMER SERVICES

Pharmaceutical production places the highest demands on reliability and process safety in production. Regulations and standards must be adhered to and comprehensively documented.

Every application requires individual attention. ViscoTec sees itself as a consultant and accompanies its customers from the idea to far beyond common dosing tests. Projects are optimally carried out when all process steps

and the people involved in the process are well coordinated. The focus is always on the needs of the customer.

The new Customer & Innovation Center (CIC) has its own technical center for customer trials for each industry that ViscoTec covers. It is here that complex developments, as well as individual customer consultations, can be carried out on site - for a perfect dosing result.



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