



Pharmaceutical dosing system

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



PRESENTATION

ViscoTec offers ideal solutions for the high-precision and shear-sensitive filling, feeding and dosing of liquid to highly viscous pharmaceutical products when filling highly viscous liquids or protecting the product when handling solids-laden liquids.

Different parameters are important depending on the application. For example, pulsation-free with continuous dosing, process reliability.

TECHNOLOGY

The principle of these 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.

Advantages :

- Fast and tool-free installation
- Hygienic Design / GMP compliant design
- Also in CIP-compatible design
- Autoclavable, FDA compliant elastomers (resistant to chemically aggressive products)
- Corrosion resistant stainless steel 316L, Ra ≤ 0.8 µm



DOSING SYSTEM

- **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 material**
 - Not dependent of viscosity up to 5,000,000 mPas
 - Suck-back for defined thread breakage and drip-free dosing
 - Dosing tolerance ± 1%
- **Process reliable handling of solids-laden products**
 - Small quantities from 0.1 mL
 - Product-gentle filling of shear-sensitive materials



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.

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.

- Composites / tooth fillings
- Ointments and creams
- Bone-replacement material
- Eye gels
- Hyaluronic acid
- Transdermal patch
- Blood-separating gels
- Subcutaneous depots

CUSTOMER SERVICES

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

Every application requires individual attention. GENTEC is a representative of the VISCOTEC range and accompanied their customers since the study of the specifications until the system is started.

- 1- Consultations
- 2- Study of the specifications
- 3- Technical and commercial proposal
- 4- Confirmation
- 5- Technical reception
- 6- Commissioning
- 7- On-site test
- 8 -Technical support/Training
- 9 - Maintenance

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GENTEC is a Belgium company that commercializes a wide range of adhesives and dosage equipments, proven and effective.

Distributed in over 20 countries around the world, these equipments provide tailored solutions to many users in order to improve technically their manufacturing and reduce their productions costs.

Our collaborators and sales engineers have strong technical competences. They are able to answer your questions and offer you, after analysis, the right solution for your particular need.



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