



## Pharmaceutical dosing system

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

**POLY DISPENSING SYSTEMS**  
S Y S T E M E S   D E   D O S A G E   I N D U S T R I E L

## PRESENTATION

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.

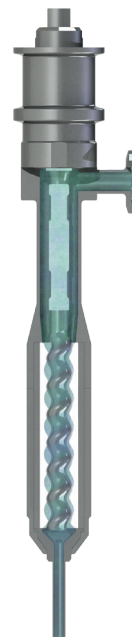
## TECHNOLOGY

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.

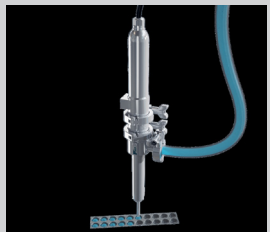
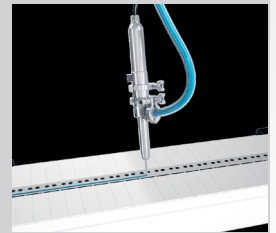
## Advantages :

- Fast and tool-free installation
- Hygienic Design / GMP compliant design
- Also in CIP-compatible design
- Autoclavable, FDA compliant elastomers (resistant to chemically aggressive products and detergents)
- 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
  - Dosing of abrasive products



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

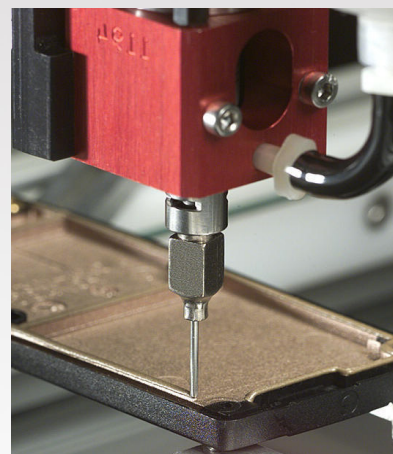
## CUSTOMER SERVICES

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. POLY DISPENSING SYSTEMS is a representative of the VISCOTEC range 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.

- 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

## Poly Dispensing Systems



PDS S.A.S is a French company that commercializes a wide range of dispensing equipment, proven and effective.

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

Take advantage of our technical competence and experience to answer your questions and help you find the right solution to meet your particular requirements.

FRANCE - NORTH AFRICA  
Poly Dispensing Systems  
122, Chemin de la Cavée  
78630 Orgeval  
FRANCE

+ 33 (0)1 39 62 40 92

+ 33 (0)1 39 62 40 94

[www.polydispensing.com](http://www.polydispensing.com)

SWITZERLAND

John P. Kummer AG

Riedstr. 1

6330 Cham

Suisse

+41 41 748 10 80

+41 41 748 10 89

[www.jpkummer.com](http://www.jpkummer.com)

GERMANY

John P. Kummer GmbH

Steinerne Furt 78 D-86167 Augsburg

+49 82 17 48 720

[www.jpkummer.com](http://www.jpkummer.com)

BELGIUM- NETHERLANDS

LUXEMBURG

Gentec Benelux

Rue de L'Industrie, 12

B-1400 Nivelles

BELGIQUE

+32 2 351 1800

+32 2 351 1962

[www.gentec-benelux.com](http://www.gentec-benelux.com)

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