



# Nasal Application System

High Performance for OTC and Prescription Drugs

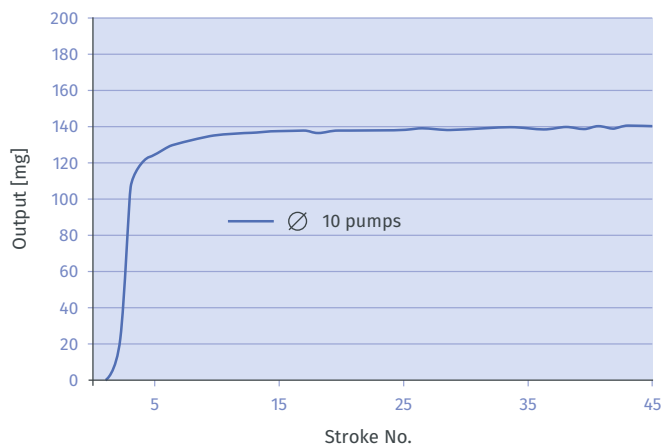
APPLICATION SYSTEMS FOR THE HIGHEST STANDARDS



## Adaptable for OTC, Rx and generics



- Dosages available: 45 to 140 mg
- Customized dosage possible
- Compatible with 10, 15, 20, and 30 ml plastic, tubular or molding glass bottles
- Suitable for diverse formulas and viscosities



Dosage Determination – Nasal Spray 140 mg  
Test medium: distilled water

CLOSURES –  
A VARIETY  
OF OPTIONS

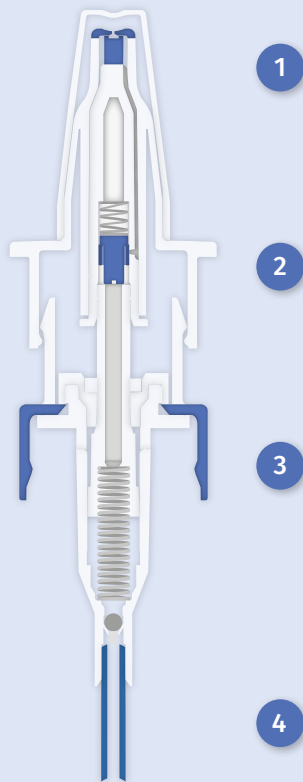


Screw-On



Snap-On

## Your needs, our technology



- 1 **The outlet** creates the required spray pattern
- 2 **The valve** protects the content by preventing backflow of the product
- 3 **The closure** is available for different types of bottles
- 4 **The dip tube** will be adapted to the container

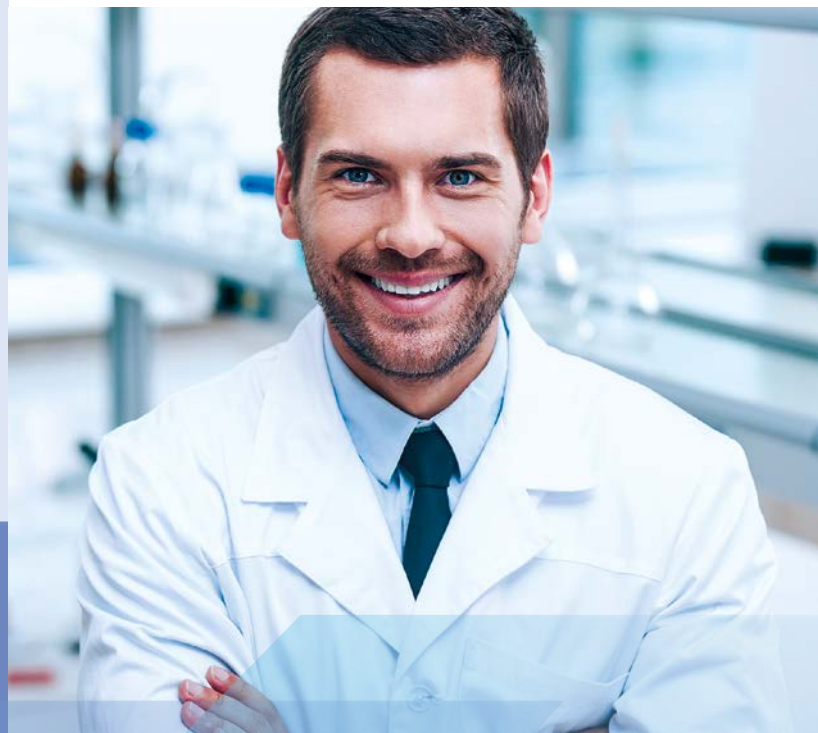
For **preservative-free** formulations our partner Ursatec offers the **3K®-technology**, ensuring the microbiological safety of the system.

## Precise metered dose nasal pumps

Our nasal pumps have successfully been used billions of times across the world, and not only against colds and allergies. Product characteristics include continuous application with constant development and adjustment to the latest market requirements.

The modular pump system enables the individual adjustment of dosage and spray performance. As a result, a wide range of product characteristics, e.g. high viscosity formulations or suspensions can be covered.

Our lab will support you with the necessary studies like spray pattern, plume geometry and droplet size distribution and the relevant data for a successful product registration.



## SOLUTIONS FOR SPECIAL REQUIREMENTS



Child-resistant  
packaging



SoftSpray  
technology



LuerLock  
syringe adapter



Nasal  
drops



### Testing

Every project starts with an idea. We provide support in turning ideas into plans and visualising them. We provide test products according to customer specifications, ranging from the first hand-made pump samples to smaller batches for stability.



### Technical support

Our laboratory team has specifically been trained to provide extensive advice towards maximising the benefits of integrating our pumps with customer products using innovative testing methods.



### Regulatory support

Supporting documentation leading through every stage of the development process up to market launch is just as important as the product itself. We are also more than willing to provide support in the approval phase.



**We are looking forward to your request!**

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