



Ophthalmic Multidose System

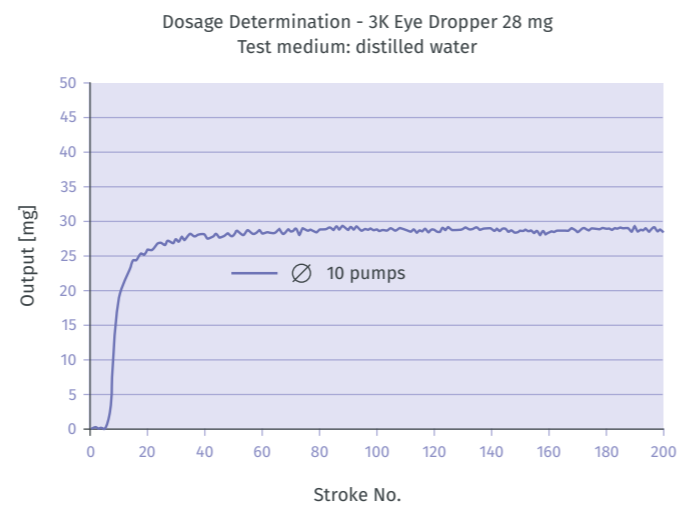
Metered Dose for Preservative-free Solutions



The only metered multidose system for ophthalmics

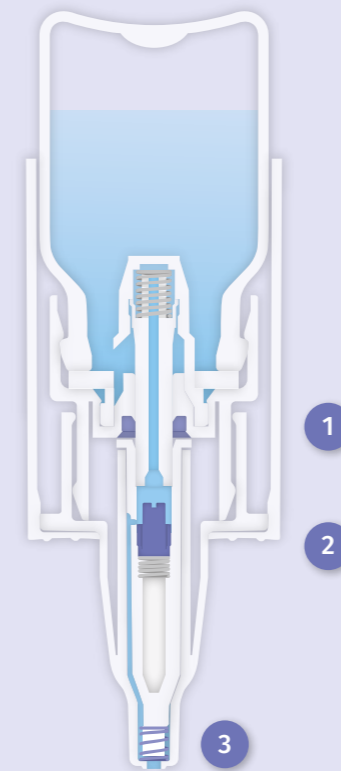
Adaptable for OTC, Rx and generics

- Compatible with 5ml or 10ml plastic and glass bottles
- Dosages available: 28 mg, 45 mg
- Suitable for various formulations and viscosities



The **metered dose** and exact reproducibility of the drop size, based on the mechanical functionality of the pump, is unique amongst eye droppers. Our system supports multidose delivery, saving packaging materials compared to single dose systems. Apart from that, multidose eye dropper systems are more convenient and safer.

Preservative-free 3K®-technology for microbiological safety



- 1 **The filter matrix** prevents ingress of contaminated air
- 2 **The valve** protects the content by stopping backflow of the product
- 3 **The oligodynamic nozzle** prevents microbiological growth in the tip

Precise application, maximum comfort



The microbiological safety of the 3K® Eye Dropper System is tested under special conditions where the contamination during use is simulated. This involves immersing the pump into a contaminated liquid with test bacteria such as *Pseudomonas aeruginosa*. This models the way future patients will be using the product. After that, the system is tested for microbiological contamination.

Dynamic Integrity Test



FEATURING
DIFFERENT DOSAGES
AND VOLUMES

28
45

Dosages in mg

5
10

Filling volume in ml

BEST
PATIENT
USABILITY



Side Actuation Device



Comfort Grip

Ophthalmic Sprays:
see backside





Ophthalmic Sprays

Using an innovative technology, our pump systems can create an extremely fine mist/spray. Ideal for the application onto the open or closed eye, e.g. for the treatment of DES (Dry Eye Syndrome).

LIDSPRAY

- application onto the eye lid (closed eye)
- product will be dispersed in the eye after blinking

OPEN EYE SPRAY

- application onto the open eye
- new technology creating a soft mist, no blink reflex!
- droplet size adjustable via different orifice diameters



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!

phone: +49 6146 6030
e-mail info: info@aeropump.de
e-mail sales: sales@aeropump.de
Website: www.aeropump.com

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