



Global Product Portfolio  
Healthcare  
Dispensing Systems





## The right dispensing systems partner for your needs

The pharmaceutical industry is as dynamic as ever. With accelerating consolidation, new regulations and shifting priorities, it seems the only constant is change. Operating in this environment can be challenging, particularly as resources are cut but growth expectations remain. Whether you're launching a new product, creating a line extension or seeking an alternative supplier, the right dispensing systems partner can fill the resource gaps and pave the way for growth.

### **End-to-End Services**

Silgan Dispensing Systems Healthcare is more than a supplier of pumps and sprayers for your nasal and topical medications. We provide real value by partnering with you to understand your needs and guide your project through every step of the process. Our global team of experts delivers end-to-end services including consumer insights, design, regulatory affairs, engineering, project management and lab support.

### **Responsive Manufacturing**

When your product demand increases, Silgan Dispensing Systems will be ready. We aim to maintain short lead times and invest in increasing our capacity as the market demands it. We know that capitalising on opportunities as they arise and ensuring supply security are important to you, and we are flexible in our approach to providing you with a level of service that exceeds your expectations and helps you deliver results.

### **Industry-Leading Solutions**

We believe that packaging does more than simply contain or dispense medication. Well-thought-out quality packaging can give your brand an edge in the marketplace that translates to improved patient loyalty, satisfaction and adherence. At Silgan Dispensing Systems, we infuse consumer insights throughout our development process to provide your patients with superior healthcare dispensing systems.

# Pump Solutions



## MK™

### Key Features

- Outstanding performance and dose accuracy
- Accurate priming for OTC or Rx formulations
- All pharma-grade materials comply with European and U.S. regulations
- Compliant with the U.S. FDA nasal guidelines
- Has a Drug Master File (DMF)
- Standard white colour; other colours available upon request
- Available with shipping clip for various sizes and outputs
- Available with protective hood for nasal adapters in custom colours

### Closure Sizes

Many standard closure sizes

### Output Range

0.050 to 0.180 ml



## Mark II™

### Key Features

- Excellent atomisation capabilities with great performance and quality
- Has a Drug Master File (DMF)
- All pharma-grade materials comply with European and U.S. regulations
- Standard white colour; other colours available upon request
- Available with shipping clip for various sizes and outputs
- Available with protective hood for nasal adapters in custom colours

### Closure Sizes

Many standard closure sizes

### Output Range

0.100 to 0.200 ml



## Mark VII® Max

### Key Features

- Compatible with most high-viscosity formulations
- Spray and cream versions with excellent priming and smooth actuation
- Natural gasket for invisibility in translucent closures
- Variety of closures, heads, hoods and orifice cups for maximum flexibility and compatibility across platforms and product lines
- Inverted version available for upside-down spraying

### Closure Sizes

Ribbed: GL 20, 20-400  
Smooth or ribbed: 20-410, 22-415, 24-410  
Snap-on: GS 30, GS 31  
Ferrule: 20 mm

### Outputs

0.160, 0.210, 0.300 ml  
0.180 ml for inverted version



## SD 200®

### Key Features

- Intermediate output
- Advanced lock-down design
- Outstanding top-load support
- Wide variety of head designs
- Range of options for packaging convenience and flexibility

### Closure Sizes

Ribbed: 24-400  
Smooth or ribbed: 24-410, 24-415, 28-410, 28-415

### Outputs

2.0 ml



## Sprayette™ IV

### Key Features

- Pure Path™ technology for a metal-free fluid pathway
- Highly customisable with variety of output sizes and protective hoods
- Higher-output large mist sprayer
- Exceptional performance with aggressive formulas
- Wide range of spray pattern options
- High discharge volume for oral and topical applications

### Closure Sizes

24-410, 28-400, Snap-on S26

### Output Range

0.350 to 0.700 ml



## HiMark®

### Key Features

- Versatile product range with many options for outputs, closures and adapters
- Easily customised with numerous aesthetic options
- Topical, oral and nasal options available
- Dose counter and safety clip options available
- Suitable for non-drip nasal sprays and other viscous formulations
- Wide output range with many options
- For aggressive products, alternative materials can be provided for critical pump components
- Child-resistant option available

### Closure Sizes

Many standard closure sizes

### Output Range

0.050 to 0.190 ml



## HiMark® CR

### Key Features

- Meets highest level of child resistance while still being easy for adults to use
- Integrated locking feature provides security, even if the hood is lost or left off
- One of our most versatile pump engines, it is suitable for a range of difficult, viscous and aggressive formulations
- Available in a wide range of dimensions, finishes, spray angles and outputs
- Backed by a Drug Master File (DMF)

### Closure Sizes

GPI 18 – 415 non-removable

### Outputs

0.050, 0.100 ml

# Preservative-Free Solutions



## PFP N™ (Nasal)

### Key Features

- Full protection from microbiological contamination
- No silver spring, no oligodynamic components
- Shut-off valve to avoid contamination
- Sterile air filter system for bottle venting; non-venting version also available
- Entire pump can be sterilised via gamma irradiation
- Has a Drug Master File (DMF)
- Finger flange and hood can be easily customised
- Standard white colour, with clear and custom colours available
- All pharma-grade materials comply with European and U.S. regulations
- Extensive reference list

### Closure Sizes

Snap-on closure S20

### Output Range

0.050 to 0.140 ml with customised intermediary outputs

# Eye Dropper Solutions



## Iridya™

### Key Features

- Preservative-free, multidose eye dropper
- Familiar squeeze-bottle dropper design
- Consumer-preferred design validated by qualitative testing
- Elongated tip for ease of use and precision
- Tamper-evident tear-off strip
- Overcap for prolonged use and on-the-go lifestyles
- Low squeeze force
- Controlled application for exact dosing
- Compatible with most market formulations, from low to high viscosities
- Delivery system for both over-the-counter and prescription drugs



### Bottle Sizes and Makes

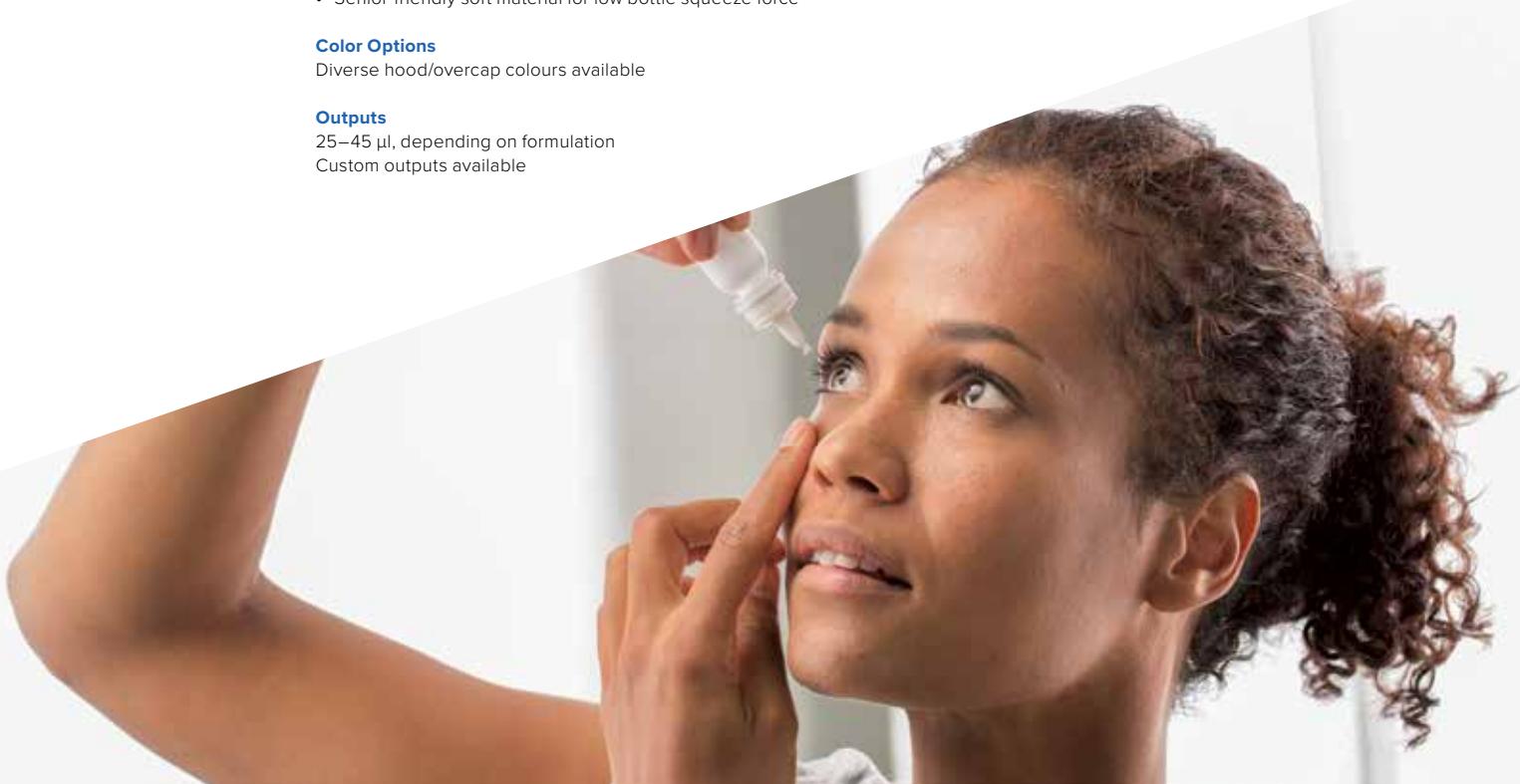
- 10 ml (standard), other sizes upon request
- White and transparent bottles available
- Senior-friendly soft material for low bottle squeeze force

### Color Options

Diverse hood/overcap colours available

### Outputs

25–45 µl, depending on formulation  
Custom outputs available



# Adapters

## Nasal Applications



Round



Square



Oval



Mini

## Ear Applications



Ear Adapter



Shroud 20<sup>2</sup>



Hexagon



Dose Counter<sup>1</sup>



Elegant

## Oral Applications



Throat Adapter Short



Throat Adapter Medium



Throat Adapter Medium + Protection



MTA5<sup>1</sup>



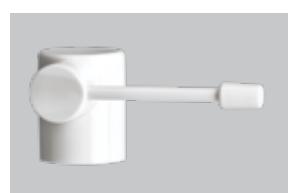
Spray Extender<sup>2</sup>



Throat Adapter Long



Throat Adapter Long with Wings



Throat Adapter Articulated<sup>3</sup>



ATA 19



SATA Narrow

## Topical Applications



Dispensing Head



Spray Head 16 mm



Spray Head with Capillary Tube<sup>4</sup>



Spray Head 16 mm

## Ophthalmic Applications

All adapters fit on Mark II and MK with the below exceptions:

<sup>1</sup> Dose counter and MTA5 fit on HiMark

<sup>2</sup> Spray extender fits on Mark VII Max

<sup>3</sup> Throat adapter articulated-F on ferrule only

<sup>4</sup> Spray head on capillary tube on special request only

Additional nasal, oral, topical and ear adapters available through partners

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