

preeflow® eco-SPRAY High Precision Volumetric Dosing Unit, Spray Dispensing System



Description

The **preeflow eco-SPRAY** spray dispensing system combines the reliable preeflow endless piston principle with a low-flow spray chamber, resulting in highly accurate spraying of low to high viscosity fluids with high edge definition. Based on preeflow's proven rotor/stator dispensing technology, the eco-SPRAY provides superior process control.

This dispenser offers flexibility thanks to viscosity independence and a variable spraying pattern, as well as cost savings due to reduced waste and altogether higher process reliability than standard spraying technology.

The eco-SPRAY is capable of precisely nebulizing and spraying on either a continuous or intermittent basis. It offers a constant amount dispensed per area, uniform coating, and controllable round spray alongside technical features including defined quantity spraying, viscosity and primary pressure independent spraying and a controllable spray area.

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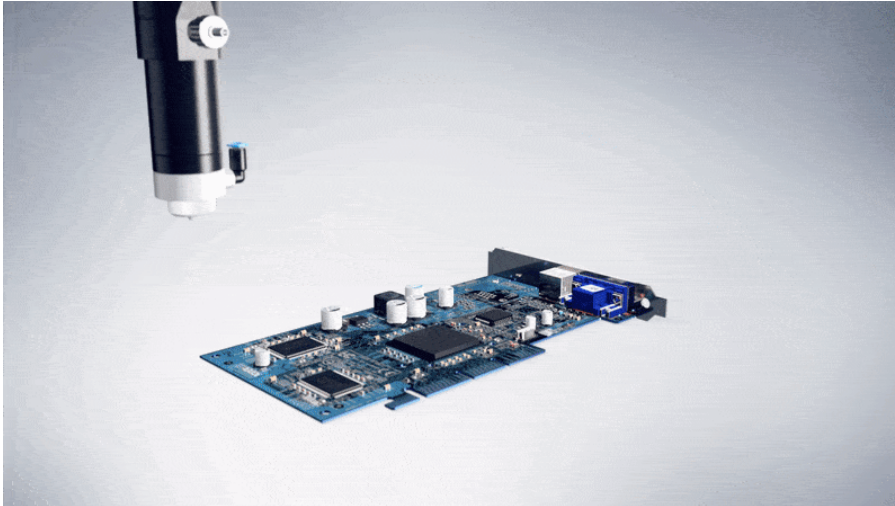


We can integrate the **preeflow eco-SPRAY** into any [robotic dispensing system](#).

Features & Benefits



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Viscosity-independent spraying

- Spraying of defined quantity, regardless of primary pressure
- Controllable round spray area, with little overspray and high edge definition
- Constant amount/area and consistent spray-image results in uniform coating
- High chemical resistance allows a variety of media from low to high viscosity: grease, adhesives, ink, silicones, abrasive media, highly filled media, activators/primers
- Low maintenance system which is easy to clean

Applications

- Dosing
- Greasing
- Coating

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- Marking
- Micro-nebulisation

Specifications

Specification	
Dimensions	228mm high, 35mm diameter
Spray accuracy	± 1%
Repeat accuracy	> 99%
Min. spray quantity	0.05ml
Volume flow	0.5ml to 6ml per minute
Diameter	0.2mm, 0.3mm, 0.5mm
Material infeed	1/8" cylindrical whitworth pipe thread DIN/ISO 228

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Specification	
Parts with medium contact	HD-POM/Stainless Steel/PEEK
Min. operating pressure	0 bar, self-levelling fluid
Max. operating pressure	0 to 6 bar input pressure, non-self-levelling fluid
Intrinsic tightness	Approx. 2 bar (reference medium approx. 10 mPas at 20° C)
Seals	High-molecular PE, VisChem
Motor	18 to 24 V/DC, incremental encoder, planetary gears
Switching frequency	Over 100 cycles/min
Operating conditions	+10°C to +40°C, air pressure 1 bar
Medium temperature	+10°C to +40°C, air pressure 1 bar
Medium viscosity	Low to high viscosity media
Atomizer air	0.1 to 6 bar
Atomizer supply	Hose connector external diameter 4mm (connection to the process M5)

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Specification	
Spray image	Round spray (adjustable)
Spray angle	15 to 30°

Other Information

See also our [Technical Articles and White papers](#) page to download [“The “Endless Piston” Pump – Technology for Precision Dispensing”](#) – a whitepaper about this technology.



Ordering Information

Part number	Description
VIS21448	preeflow eco-SPRAY
VIS21499	preeflow eco-SPRAY controller

preeflow® eco-SPRAY High Precision
Volumetric Dosing Unit, Spray
Dispensing System



Let’s start by talking about your application

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Name*

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Company*

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Phone*

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Email*

■ Post code*

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Last updated: November 2022 Version: 2.4

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