

Cosmetics Market

PRODUCT BROCHURE



PSG
a **DOVER** company

MOVEX

Where Innovation Flows

GENTLE.
CLEAN.
CONSISTENT.

Mouvex® Eccentric Disc Pump Technologies | The Solution for Your Cosmetics Production Process

Mouvex® features a variety of leading pump technologies that include eccentric disc and rotary vane pumps to meet virtually any application challenge throughout the cosmetics products manufacturing process.

Cosmetics Products Manufacturing Challenges:

Cosmetics products manufacturers face the following challenges in their day-to-day operations:

- Handling extremely shear-sensitive products and ingredients
- Minimizing product loss and recovering ingredients
- Having the cleanest operating conditions

Pumps used throughout each phase of all kinds of cosmetics products production processes must have the following attributes to meet those challenges:

- Gentle product handling
- Perfect cleanability
- Volumetric consistency
- Able to recover expensive products and ingredients



Face cream manufacturing

- Storage to conditioning transfer. S Series pump.
- Low shear (fragile product)
- Product recovery
- Easy hand cleaning



Toothpaste manufacturing

- In-line flavor injection. SLS Series pump.
- Constant flow rate
- Self-priming from drums
- Damage less dry running



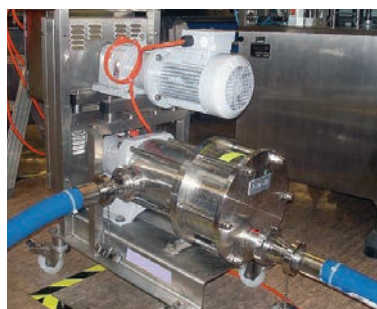
Cosmetic gel manufacturing

- 1,000 L drums emptying. SLS Series pump.
- Self-priming from drums
- Low shear
- Product recovery



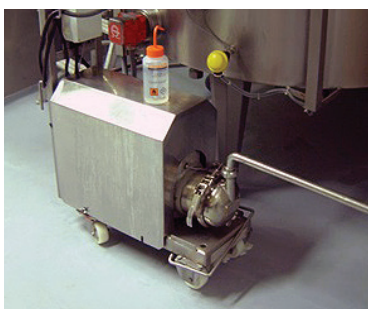
Lotion manufacturing

- Storage to mixer transfer. SLS Series pump.
- Low shear (fragile product)
- Constant flow rate
- Easy hand cleaning



Various cosmetics manufacturing

- Conditioning. SLS Series pump.
- Low shear (fragile product)
- Constant flow rate vs. variable viscosity and pressure
- Product recovery inside the hoses



Various cosmetics manufacturing

- Tank to tank transfer. S Series pump.
- Low shear (fragile product)
- Product recovery inside the pipes
- Easy hand cleaning



Mouvex® Eccentric Disc Pump Technologies |

The Solution for the Challenges of Cosmetics Production

- Low shear due to eccentric disc technology and lack of mechanical seal and bushings
- Consistent performance (flow, pressure and volumetric efficiency) thanks to low slippage.
- Product recovery (pipeline stripping), means profit recovery
- Non-pulsating, smooth flow
- Self-priming to take ingredients from drums
- Easy to maintain: no seals, no metal/elastomer friction, only two pumping parts
- High volumetric efficiency allowing accurate formulation
- Clean-in-Place (CIP) capable for the ultimate in convenience and cleanliness
- Unique seal-less design eliminates leakage



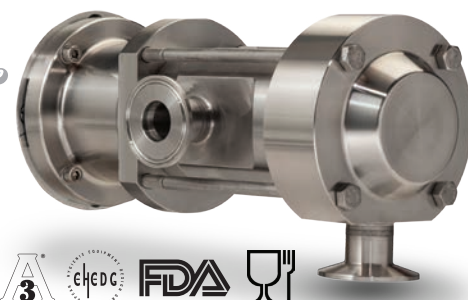
S Series

The seal-less pump with quick dismantling for daily hand cleaning.
Up to 12 m³/hr (52 gpm)



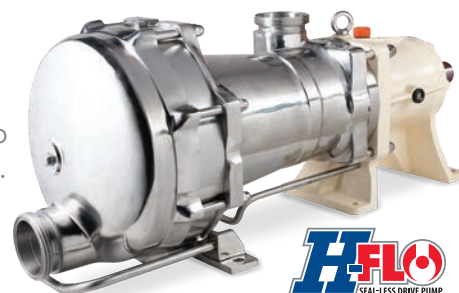
Micro C Series

The seal-less pump for small flow rates.
Up to 800 l/hr (3.5 gpm)



H-FLO & SLS Series

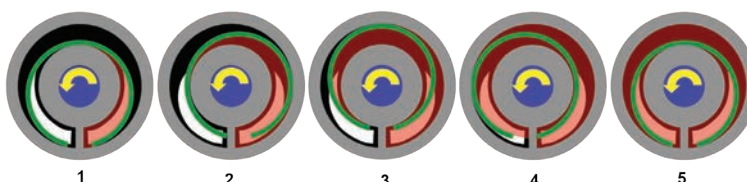
The CIP capable seal-less pump for various transfer applications.
Up to 65 m³/h (286.2 gpm)



Mouvex Technology

Eccentric disc pumps consist of a cylinder and pumping element mounted on an eccentric shaft. As the eccentric shaft is rotated, the pumping element forms chambers within the cylinder, which increase in size at the intake port, drawing fluid into the pumping chamber. The fluid is transported to the discharge port where the pumping chamber size is decreased. This action squeezes the fluid out into the discharge piping.

Mouvex Principle





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