Expert Solutions in Seal-less Hygienic Transfer

ECCENTRIC DISC PUMPS

Where Innovation Flows

ECCENTRIC DISC PUMPS

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Mouvex Eccentric Disc Technology is the Solution for Your Egg-Based Product Production Process

Egg-Based Product Manufacturing Challenges:
Egg-based product manufacturers face the following challenges in their day-to-day operations:
• Preservation of final product quality
• Having the cleanest operating conditions
• Minimizing product loss and recovering ingredients
• Handling of shear sensitive products

Pumps used throughout each phase of all kinds of egg-based product production processes must have the following attributes to meet those challenges:
• Gentle product handing
• Perfect cleanability
• Volumetric consistency
• Able to recover expensive products and ingredients

Egg Yolk Conditioning
• Low shear (fragile product)
• Constant flow rate vs. variable viscosity

Mayonnaise Transfer
• Constant flow rate vs. variable viscosity
• Low shear (fragile product)
• Product recovery

Mustard Transfer
• Constant flow rate vs. variable pressure
• Non pulsating flow

Egg-based Sauces Conditioning
• Constant flow rate vs. variable viscosity
• Product recovery

Egg-based Semi-products Transfer
• Constant flow rate through heat exchanger
• Product recovery
• Low shear (fragile product)
Mouvex Eccentric Disc Pumps:
The Solution for the Challenges of Egg-Based Product 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

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.

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

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

SLS Series
The CIP capable seal-less pump for various applications.
Up to 36 m³/hr (158 gpm)

Mouvex Principle