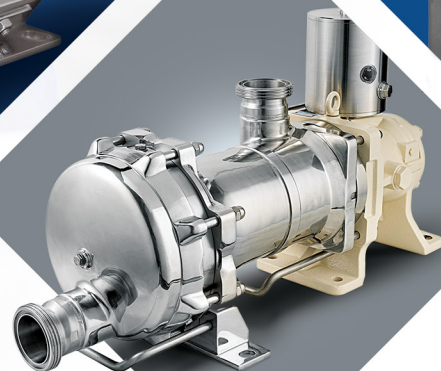
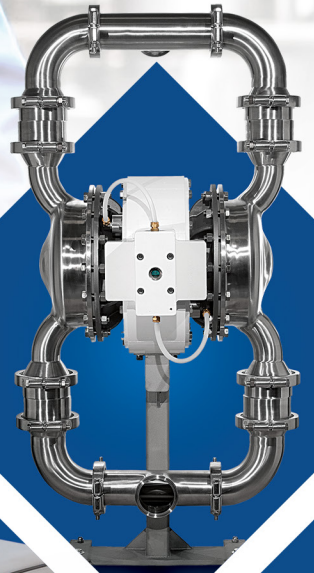




Hygienic

Precision-Engineered Pump Technology
for the World's Most Trusted Food,
Beverage and Personal Care Brands



Purity.
Performance.
Purpose.





Who Is PSG Hygienic?

PSG Hygienic designs and manufactures precision-engineered pumps that ensure operational efficiencies and product integrity across the food, beverage and personal care industries. With decades of application expertise, our team makes every design detail deliberate — so your product reaches consumers exactly as intended: **pure, safe and uncompromised.**

Our Mission

To be the partner of choice through precision-engineered hygienic pump technologies, unmatched expertise, responsive support and unique solutions that help move, protect and produce the products people depend on, live on and trust every day.

Our Vision

To advance hygienic processing through innovation that sets the standard for safety, performance and media integrity, delivering products essential for daily life.

Our Purpose

We exist to help manufacturers safely and reliably move products people depend on every day, ensuring the world's most trusted food, beverage and personal care brands flow with purity, performance, and confidence.

PSG Hygienic Delivers



IMPROVED TOP LINE



RISK REDUCTION



REPUTATIONAL ASSURANCE



CONFIGURABILITY



EXPERTISE



RESPONSIVENESS





Our Story

PRECISION-ENGINEERED PUMPS THAT DELIVER PRODUCTION CONFIDENCE

PSG Hygienic operates in the moments most people never see but rely on every day.

From molten chocolate flowing just right, to refreshing beverages, to personal care products people trust, some applications have no margin for error. Because when something goes wrong, it's not just production at risk. It's your product, your brand and your reputation.

This Is Where PSG Hygienic Thrives.

We engineer hygienic fluid handling equipment around your application, delivering reliable solutions that move your product safely and precisely, protecting integrity from process to package.

Built around your application, our technologies reliably perform in challenging conditions, where downtime, contamination or inconsistency simply isn't an option.

Because in these environments, performance is measured in trust. Trust in every batch. Trust in uptime. Trust in your brand.

While others supply equipment, we deliver production confidence through precision-engineered pumps, patented innovation and deep expertise that improves performance, reduces risk and keeps your operation running at its best.

Markets We Serve



FOOD | BEVERAGE | BREWING



DAIRY | MEAT | POULTRY



PERSONAL | HOME CARE
PHARMACEUTICALS

We Don't Just Move Product.

We make sure what the world depends on reaches consumers exactly as intended: **pure, safe and uncompromised.**



Applications

1. Receiving
2. Bulk Ingredients
3. Powder Blending Area
4. Drum Unload Station
5. Blending/Mixing Station
6. Portable Tank Unload
7. Separation Area
8. Intermediate Storage
9. Heating/Cooling
10. Filling System



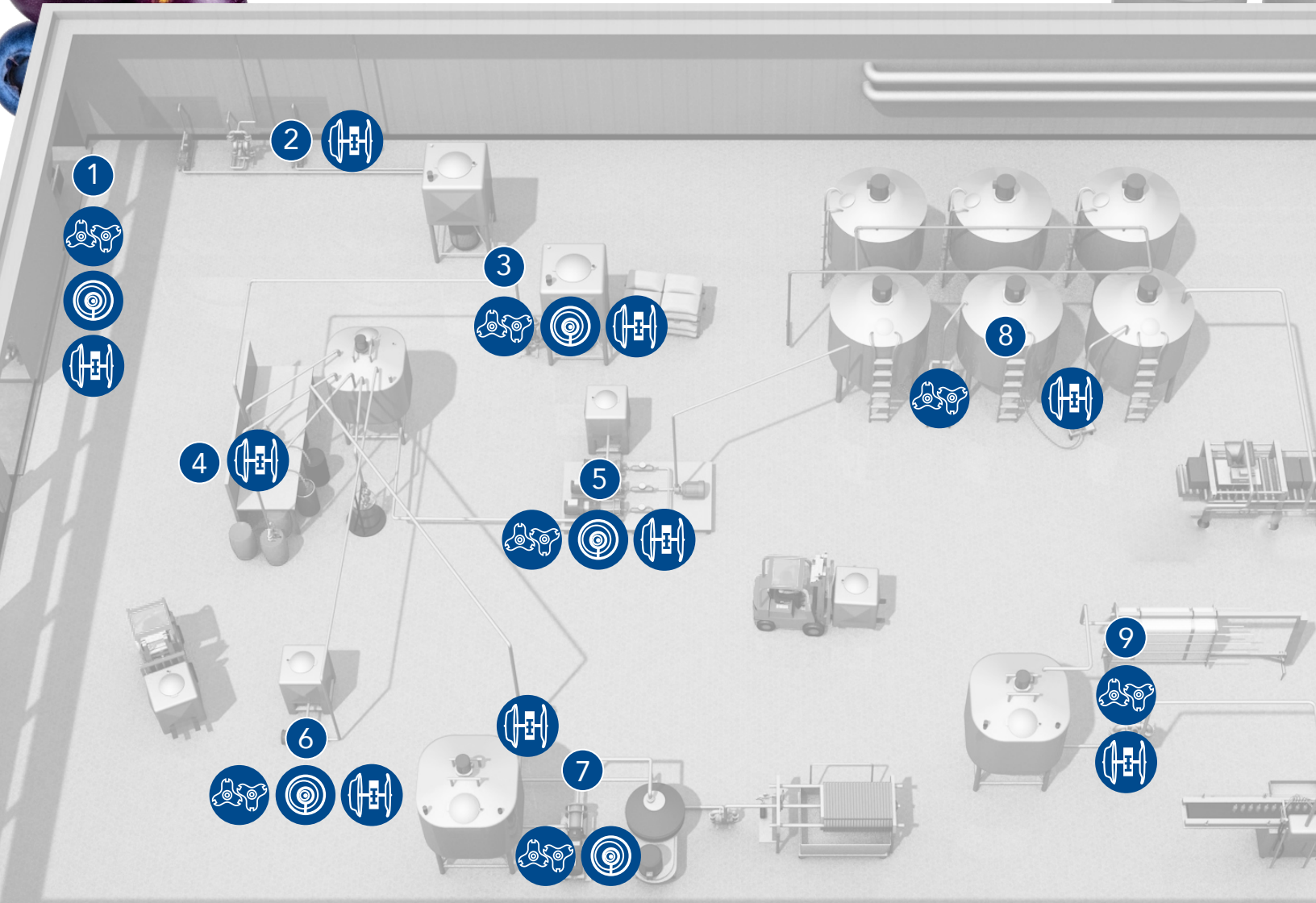
Lobe



Eccentric Disc

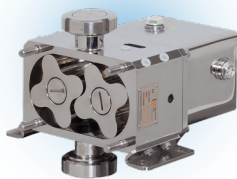


AODD

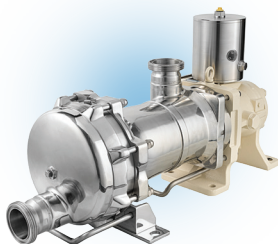


TYPICAL PROCESS PLANT

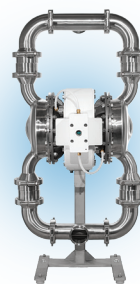
Our Hygienic Pump Technologies



**ROTARY
LOBE**



**ECCENTRIC
DISC**



**AIR-OPERATED
DOUBLE-DIAPHRAGM
(AODD)**



CENTRIFUGAL



**PROGRESSIVE
CAVITY**



10



- CIP & SIP
- Multiple Configurations
- Higher Pressure Capability
- Efficient Performance
- Shear Sensitive
- Run Dry Ability
- Product Recovery
- Easy Maintenance

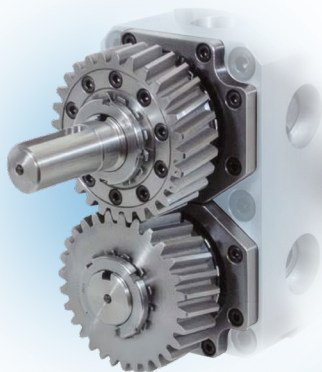


Premium Rotary Lobe Pumps

Premiumlobe™ Series

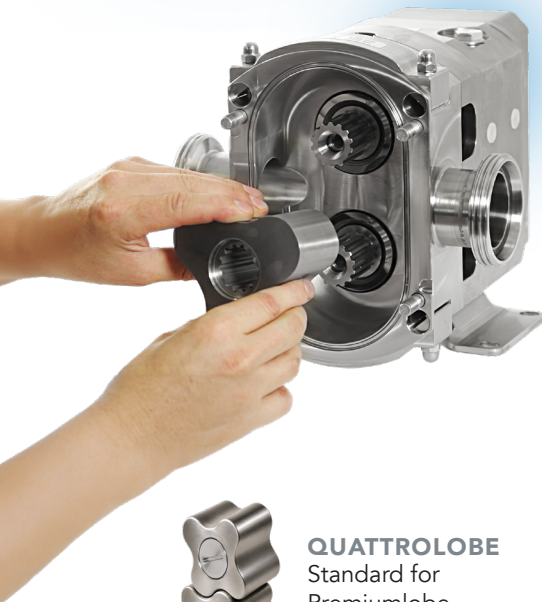
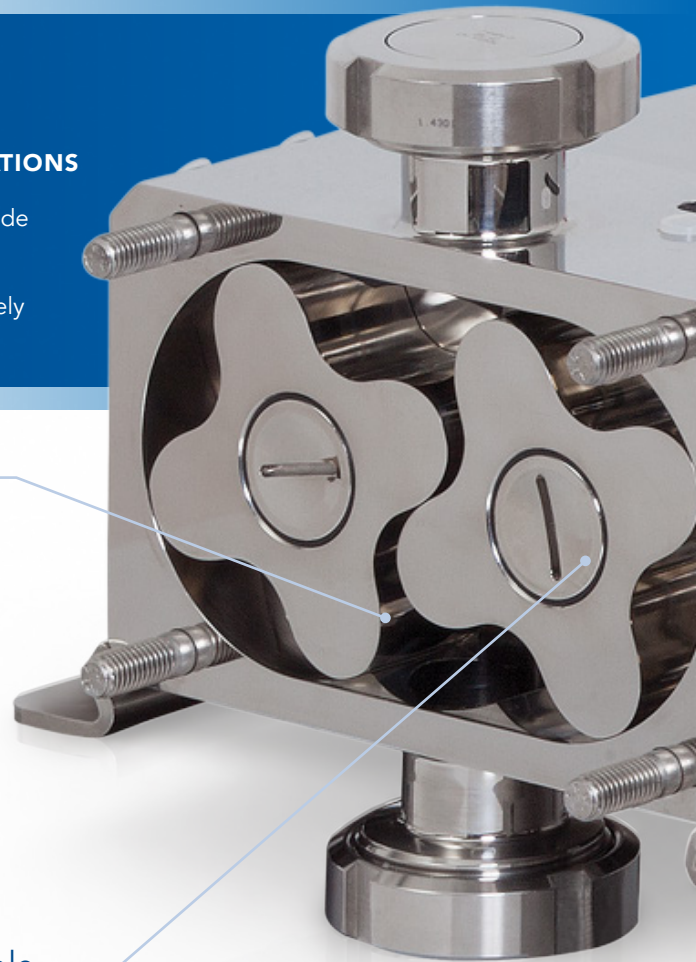
CUSTOMIZABLE PLATFORM FOR DEMANDING HYGIENIC APPLICATIONS

Precision-engineered ipp Premiumlobe pumps are fully customizable, with a wide range of rotor configurations, seals and other options to reliably deliver high performance across a wide range of flow rates. The Premiumlobe features clean-in-place and sterilize-in-place capabilities, full drainability and an extremely robust design with shorter, thicker shafts that eliminate shaft deflection.



Contact-less Running in All Operating Conditions

The meticulously crafted gearbox and arrangement of bearings and shaft guides deliver precise positioning, preserving rotor concentricity and ensuring contactless operation even under extreme loads.



Easily Accessible Seals

Premium rotary lobe pumps are engineered to minimize downtime and simplify maintenance with a front-pull-out system and easily accessible mechanical seals for easy in-line maintenance.

Rotor Options



QUATTROLOBE
Standard for Premiumlobe



TRILOBE
Standard for iLobe



BILOBE
Best for Pumping Solids without Damage



BI-WING
Traditional Rotor Design



HELICAL TWISTED
Best for High Pressure Applications



MULTI-LOBE (GEAR)
Best for Dosing Applications



CIRCUMFERENTIAL PISTON
Standard for Circumferential Piston Pump



iLobe™ Series

PLATFORM FOR CHOCOLATE AND CONFECTIONERY APPLICATIONS

Ideal for chocolate, sweets and confectionery applications, the iLobe is ipp's standard rotary lobe pump that combines all the features of the Premiumlobe with the addition of an optional integrated heat exchanger for when maintaining temperature consistency is critical.

Seal Options

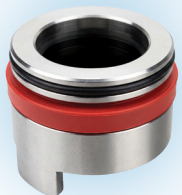
Available materials include Tungsten, Carbide or Silicon Carbide.



**SINGLE
MECHANICAL
SEAL**



**DOUBLE
MECHANICAL
SEAL**

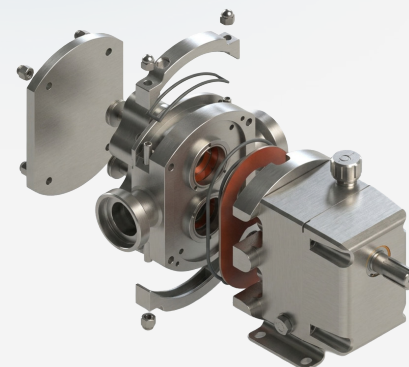


LIP SEAL



Patented Integrated Heat Exchanger

Maintains temperature consistency for chocolate and other temperature-sensitive applications.



H-FLO™ Series Eccentric Disc Pump

ENGINEERED FOR UNCOMPROMISING PERFORMANCE & SUPERIOR PRODUCT RECOVERY

A unique alternative to typical pump configurations, Mouvex H-FLO Series Pumps are designed to be seal-less without mechanical seals, magnetic drives or packings. H-FLO pumps deliver high-suction vacuum and high-discharge pressures that enable self-priming dry-run capabilities and full line stripping for maximum product recovery.

Benefits of the Eccentric Disc Design Principle

Engineered to mitigate the challenges of liquid transfer, Mouvex eccentric disc pumps consist of a cylinder and pumping element mounted on an eccentric shaft. As the shaft rotates, the pumping element forms chambers within the cylinder, increasing the cylinder size at the intake port to draw fluid into the pumping chamber. The fluid then moves to the discharge port, where the pumping chamber size decreases, expelling the fluid.

ADVANTAGES OF THIS UNIQUE DESIGN:

- Seal-less technology
- Low-shear fluid transfer
- Dry run capabilities
- Gentle handling
- Line stripping
- Consistent performance
- Self-priming ability
- Easy maintenance

Shaft

UNMATCHED ROTATION

Large diameter single shaft mounted on roller bearings.

Bellows

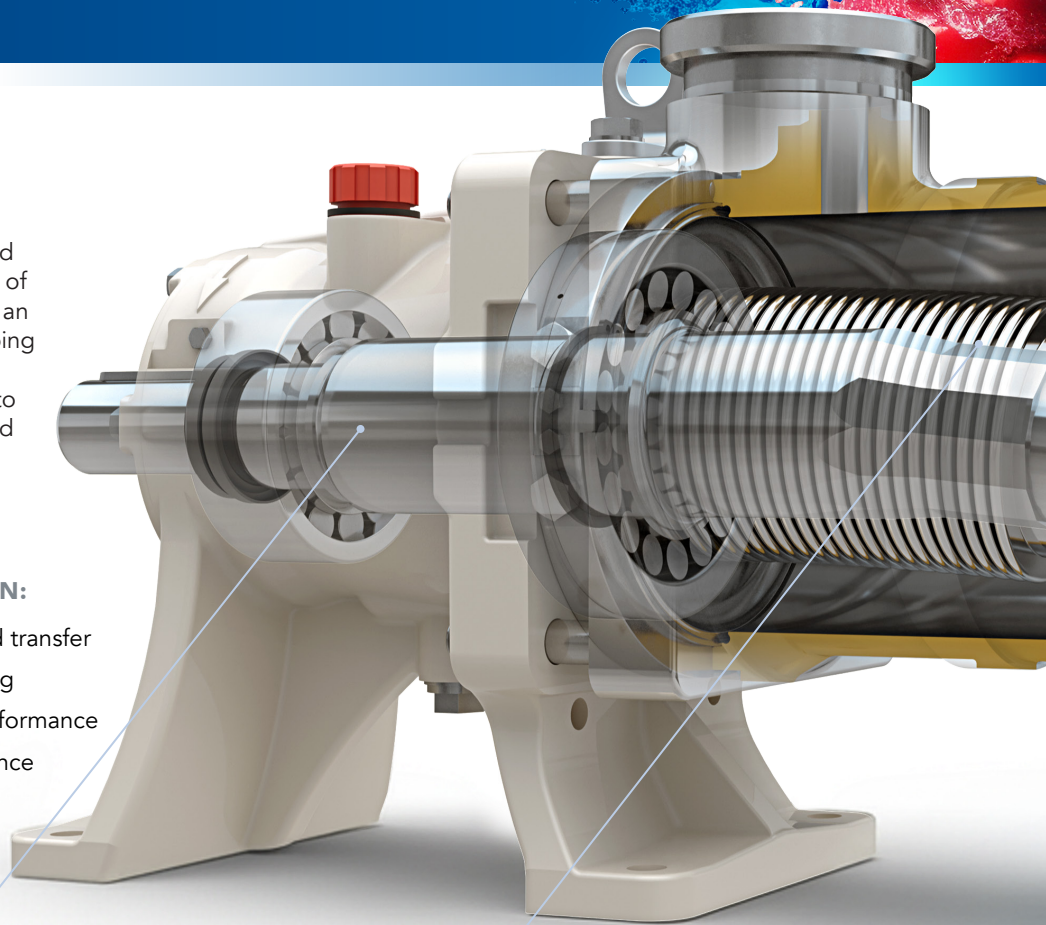
TOTAL PRODUCT CONTAINMENT

Multi-layer bellows provide total containment without a magnetic drive or seals.

Easy Clean System

MAXIMUM CLEANABILITY WITHOUT AN EXTERNAL CIP BYPASS

Fully drainable and cleanable design ensures pumped product only comes into contact with 4 components, with no bushings, no mechanical seals and no magnets. Engineered for clean-in-place and sterilize-in-place capabilities, all H-FLO Pumps can also be equipped with an optional Easy Clean System (ECS) that eliminates the need for an external CIP bypass.





Spring System

HIGH EFFICIENCY, LOW SLIPPAGE

Axial and radial spring system ensures total contact between pumping parts, delivering negligible slippage, high volumetric efficiency, high-suction vacuum and strong air consumption on discharge.

Pumping Parts

EASY MAINTENANCE

Only 2 pumping parts (cylinder and disc), with no special tools, setting or shimming required.

Product Recovery

UP TO

90%

RECOVERY OF
HIGH-VALUE PRODUCT



The high-suction vacuum and high-discharge pressure nature of the eccentric disc design allows Mouves H-FLO Series pumps to fully strip the pipeline of product, allowing operations to reduce waste and maximize return.

Hygienic Series Pumps

DESIGNED TO MEET STRICT SANITARY REQUIREMENTS

The unique design of Wilden Hygienic Series (HS) Air-Operated Double-Diaphragm (AODD) pumps includes a free-draining flow path that optimizes performance, enables full CIP capability and lowers the risk of cross-contamination compared to typical AODD pump technologies.

Free-Draining Flow Path

FAST, EASY DRAINING

Free-draining flow path enables full drainage without disassembly, simplifying cleaning and maximizing uptime. HS pumps are the only US-manufactured pumps to have 3A certifications for CIP.

Offset checks for ease of assembly

Flow-through design for CIP applications and improved shear sensitivity

Competitor

Catch area for product to settle in flow path

Wilden

Product completely drains from flow path

Tri-Clamp

SIMPLIFY MAINTENANCE WITH TRI-CLAMP

Optional Tri-Clamp® fittings simplify maintenance with an eccentric cartridge check valve assembly that ensures liquid chamber and pump manifold alignment.



Three different valve options available to best suit niche applications

State-of-the-art design keeps food from being captured

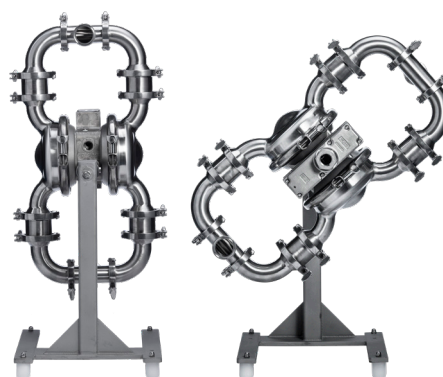
CIP swivel stand for ease of cleaning and draining

Valves

HYGIENIC SERIES VALVE OPTIONS

Most HS pumps come standard with ball valves, but a range of valve options are available to match any application.

	BALL VALVE	FLAP VALVE	MUSHROOM VALVE
BEST FOR:	Shear Sensitive Items	Large Solids	Viscous Products
EXAMPLES:	Noodles Fruit preserves Grapes for wine Salsa	Poultry Eggs Meat products Waste	Peanut butter Molasses Ketchup Gels and creams

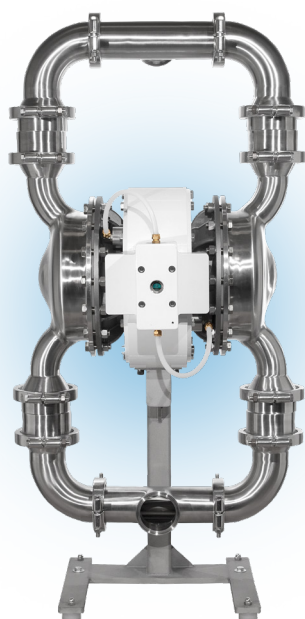


CIP Stand

STREAMLINE CLEANING WITH CIP STAND

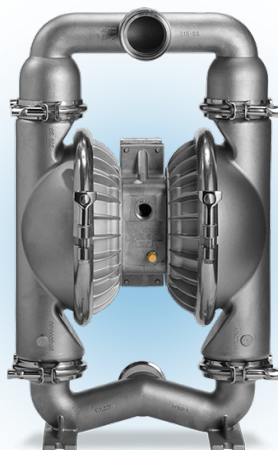
Optional swivel pump stand streamlines cleaning by enabling the pump to easily rotate for fast, simple and complete drainage without disassembly.

Additional Technology Solutions



Wilden High Pressure Hygienic Series Pumps

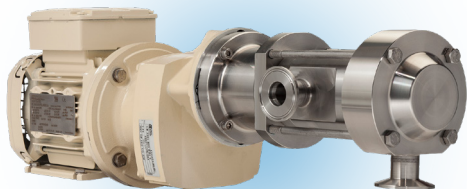
- Ideal for thick, viscous products, such as bean paste or peanut butter
- Free-draining flow path enables easy cleaning
- Designed to minimize the risk of cross-contamination



Wilden FDA Series Pumps

- Available in a range of construction materials
- Compliant with all FDA, CE, 1935/2004/EC and ATEX requirements
- Efficient for a wide range of viscosities and shear-sensitive products





Mouvex Micro C Series Eccentric Disc Pumps

- Engineered for smaller batch flow rates for dosing and injection applications, such as additives, flavorings and coatings
- All the benefits of H-Flo pumps, including maximum product recovery, simple cleaning and total product containment



ipp Aqueous Centrifugal Pumps

- Premium centrifugal pump for low viscosity hygienic products
- Heating options available
- Self-priming options available
- Conveying heights up to 120 m (393 ft)
- Self-cleaning CIP/SIP capability

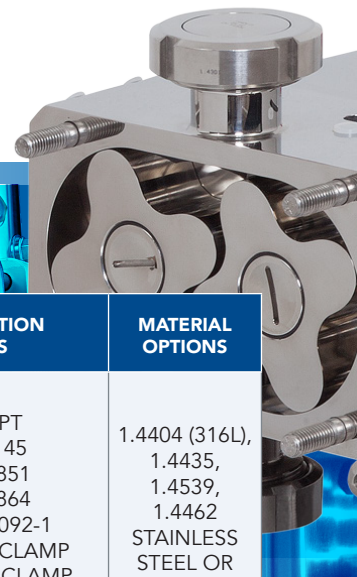


ipp Progressive Cavity Pumps

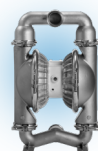
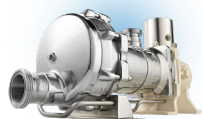
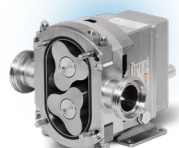
- Horizontal immersion pump for fluid bags and barrels
- Modular design can attach to any rotor or stator size
- Multiple construction material options available



Product Selection Guide



BRAND	PRODUCT SERIES	PRODUCT TECHNOLOGY	INLET & DISCHARGE SIZE	CONNECTION TYPES	MATERIAL OPTIONS
ipp	Premiumlobe	ROTARY LOBE	DN 15 / 0.5" DN 20 / 0.75" DN 25 / 1" DN 32 / 1.25" DN 40 / 1.5" DN 50 / 2" DN 65 / 2.5" DN 80 / 3" DN 100 / 4" DN 150 / 6"	BSP/NPT SMS 1145 DIN 11851 DIN 11864 DIN EN 1092-1 DIN 32676 CLAMP DIN 25 ISO CLAMP ASME-BPE 2009 CLAMP	1.4404 (316L), 1.4435, 1.4539, 1.4462 STAINLESS STEEL OR HASTELLOY
ipp	iLobe	ROTARY LOBE	DN 15 / 0.5" DN 20 / 0.75" DN 25 / 1" DN 32 / 1.25" DN 40 / 1.5" DN 50 / 2" DN 65 / 2.5" DN 80 / 3" DN 100 / 4"	BSP/NPT SMS 1145 DIN 11851 DIN 11864 DIN EN 1092-1 DIN 32676 CLAMP DIN 25 ISO CLAMP ASME-BPE 2009 CLAMP	1.4404 (316L), 1.4435, 1.4539, 1.4462 STAINLESS STEEL OR HASTELLOY
MUVEX	H-FLO	ECCENTRIC DISC	DN 40 / 1.5" DN 50 / 2" DN 65 / 2.5" DN 80 / 3" DN 100 / 4"	SMS 1145 DIN 11851 DIN11864 ASEPTIK ASME-BPE 2009 CLAMP ISO 2852 CLAMP	STAINLESS STEEL
MUVEX	Micro C	ECCENTRIC DISC	DN 15 / 0.5" DN 20 / 0.75" DN 25 / 1"	BSP/NPT SMS 1145 DIN11851 DIN 32676 CLAMP DN25 ISO CLAMP ASME-BPE 2009 CLAMP	STAINLESS STEEL
ipp	Aqueous	CENTRIFUGAL	CUSTOMIZABLE	DIN 11851 DIN 32676 CLAMP DIN 11864 DIN EN1092-1	STAINLESS STEEL
ipp	Fluid Bag and Barrel	PROGRESSIVE CAVITY	DN 15 / 0.5" DN 25 / 1" DN 32 / 1.25" DN 40 / 1.5" DN 50 / 2"	CUSTOMIZABLE	1.4301, 1.4435, STAINLESS STEEL
WILDEN	Hygienic Series	AODD	DN 25 / 1" DN 40 / 1.5" DN 50 / 2" DN 80 / 3"	SMS1145 DIN DIN 32676 CLAMP	STAINLESS STEEL OR HASTELLOY
WILDEN	High Pressure Hygienic Series	AODD	DN 80 / 3"	SMS1145 DIN DIN 32676 CLAMP	STAINLESS STEEL
WILDEN	FDA Series	AODD	DN 25 / 1" DN 40 / 1.5" DN 50 / 2" DN 65 / 2.5" DN 80 / 3"	BSP/NPT DIN 32676 CLAMP	STAINLESS STEEL





SURFACE FINISH	FLOW RANGE	MAXIMUM PRESSURE	CLEANING CAPABILITY	CERTIFICATIONS
Ra ≤0.4 µm (≤16 µin) or Ra ≤0.8 µm (≤32 µin)	UP TO 2,716 LPM (717.5 GPM)	UP TO 80 BAR (1,160 PSI)	CLEAN-IN-PLACE (CIP) STERILIZE-IN-PLACE (SIP)	FDA CE EHEDG
Ra ≤0.4 µm (≤16 µin) or Ra ≤0.8 µm (≤32 µin)	UP TO 1,000 LPM (264.2 GPM)	UP TO 15 BAR (218 PSI)	CLEAN-IN-PLACE (CIP) STERILIZE-IN-PLACE (SIP)	FDA CE EHEDG
Ra 0.8 µm (32 µin)	UP TO 1,167 LPM (308.2 GPM)	UP TO 16 BAR (232 PSI)	CLEAN-IN-PLACE (CIP) STERILIZE-IN-PLACE (SIP)	FDA CE EHEDG
Ra 0.8 µm (32 µin)	UP TO 13 LPM (3.5 GPM)	UP TO 15 BAR (218 PSI)	CLEAN-IN-PLACE (CIP) STERILIZE-IN-PLACE (SIP)	FDA CE EHEDG
Ra 0.8 µm (32 µin)	UP TO 5,000 LPM (1,320.9 GPM)	UP TO 16 BAR (232 PSI)	CLEAN-IN-PLACE (CIP) STERILIZE-IN-PLACE (SIP)	FDA CE EHEDG
Ra 0.4 µm (16 µin)	UP TO 37 LPM (10.0 GPM)	UP TO 8 BAR (116 PSI)	CLEAN-OUT-OF-PLACE (COP)	FDA CE
Ra 0.8 µm (32 µin) or Ra 0.35 µm (14 µin)	UP TO 844 LPM (223.0 GPM)	UP TO 8.6 BAR (125 PSI)	CLEAN-IN-PLACE (CIP)	FDA USP CLASS VI CE EHEDG
Ra 0.8 µm (32 µin) or Ra 0.35 µm (14 µin)	UP TO 291 LPM (77 GPM)	UP TO 5.9 BAR (85 PSI) 3:1 PRESSURE OUTPUT RATIO	CLEAN-IN-PLACE (CIP)	FDA USP CLASS VI CE
Ra 5.1 µm (200 µin)	UP TO 927 LPM (245.0 GPM)	UP TO 8.6 BAR (125 PSI)	CLEAN-OUT-OF-PLACE (COP)	FDA CE EHEDG





Hygienic

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Purity.
Performance.
Purpose.

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