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Pump & Equipment, Inc.

THE WIDEST RANGE OF PRODUCTS & SERVICES

SANITARY PRODUCT GUIDE



Ampco Lobe Pumps

Applications such as food, dairy, beverage, and pharmaceutical processing. Pumps 1 to 1,000,000 centipoise fluids



Ampco Centrifugal Pumps

316L Stainless Steel Sanitary Centrifugal Pumps are well suited for food, dairy, cosmetic processing and more.



Jabsco Flexible Impeller Pumps

Comes in closed-coupled or pedestal versions. Self-priming, low shear for delicate products.

CUSTOM SANITARY PUMP SYSTEMS

Ampco Lobe Pump Systems



Ampco Centrifugal Pump Systems

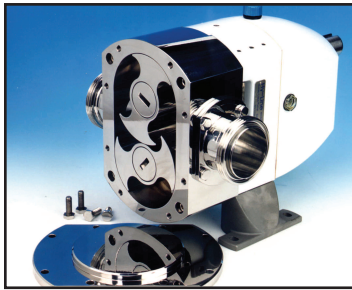


Jabsco Flexible Impeller Pump Systems



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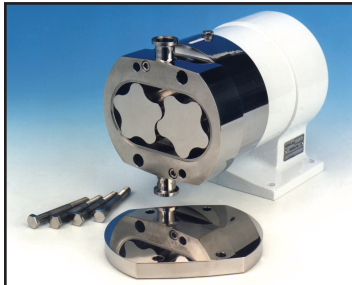
LOBE PUMPS



Jabsco Hy-Line

Jabsco incorporates the very latest in sanitary design concepts in order to fulfill the ever increasing customer demands for improved clean ability, sanitation, and sterilize in place ability. These pumps encompass the very best features of tri-lobe rotor pumps and circumferential piston pumps.

- 32 – 180 max GPM, up to 215 PSI, 1 – 1,000,000 CPS
- CIP & SIP approved by EHEDG (European Hygienic Equipment Design Group)
- Maintenance Friendly
- Front access to seals and rotors w/o removing the rotor case
- Bi-wing rotors require no timing adjustments
- 3A and USDA Approved



Jabsco 55 Series

The 316 stainless steel Jabsco 55 Series represents a radical change in the development of positive displacement lobe pumps for the pharmaceutical and food industries. The pumps have been designed to offer the very highest standards of CIP, SIP, and Aseptic Operation.

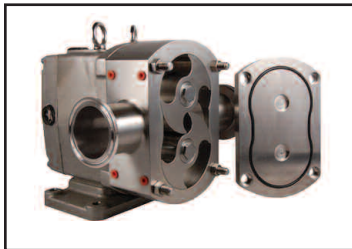
- 17.7 max GPM, 300 PSI, and 1-1,000,000 CPS
- Sanitary construction
- For continuous use, CIP and SIP applications
- 3A Approved



Jabsco Ultima Series

This pump was designed without compromise to fulfill even the most critical customer demands in cleanability, sterilizeability and bacterial tightness.

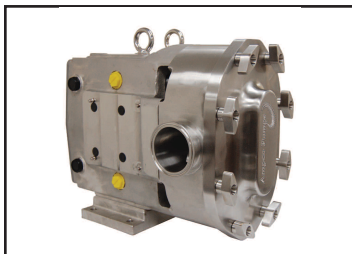
- 4.2 – 180 max GPM, up to 300 PSI
- Cavity-free sanitary design
- High efficiency rotors reduce product sheer
- Welded vertical ports ensure complete draining
- CIP, SIP & bacterial tightness
- 3A Approved (approved by EHEDGE)



Ampco AL Series

All Ampco AL Series pumps include a standard stainless steel gear case and comes standard with silicon carbide/EPDM mechanical seals. The AL Series is well suited for a variety of applications including food, dairy, beverage and pharmaceutical.

- 5 – 400 max GPM, up to 290 PSI, 1 – 1,000,000 CPS
- Various seal material and types
- Tri-clamp and other connections available
- Single- lobe, tri-lobe, and multi-lobe rotors
- Heating and cooling jacket relief cover Optional
- 3A Approved

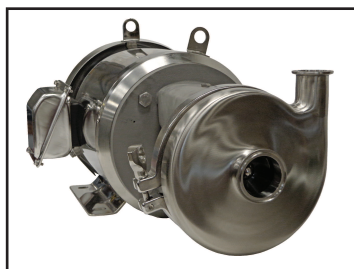


Ampco ZP1, ZP2, ZP3

Ampco's ZP pump series offers more standard features than the competition including a 304SS gear case. ZP1 and ZP2 parts are interchangeable with the competitor pumps. The Ampco ZP3 is a true innovation and offers front loading seals for easy maintenance.

- 0.1 - 310 max GPM, up to 500 PSI, 1 – 200,000 CPS, -40 to 300 F
- Improved CIP-ability with no disassembly required
- EHEDG certified and in conformance with 3A sanitary standards, ATEX directive
- ZP3 offers a seal design that eliminates all dead zones
- Rebuildable for extended pump life
- 3A Approved

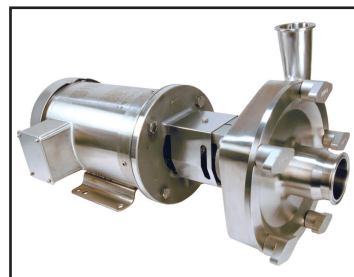
CENTRIFUGAL PRODUCTS



Ampco AC and AC+ Series

This is the sanitary centrifugal pump that was designed with the processor in mind. Ampco's diversity of experience in the manufacture and application of fluid control systems and components is expressed in the practical design of the "C" Series.

- Up to 1200 GPM, up to 300 ft; 1 – 100 CPS, 32 – 400 F
- Low cost, close – coupled centrifugals
- Full CIP service
- Parts are 100% interchangeable with other leading brands
- Enlarged inlet option



Ampco LC/LD/LF Series

Ampco now offers three lines of high efficiency centrifugal pumps to meet all sanitary requirements. LF pumps offer a front-loading seal design for ease of maintenance and are easily convertible to a double seal without changing any other parts.

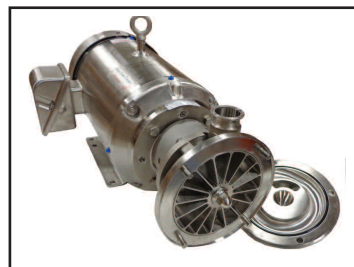
- Standard adapters are made of 304 SS to resist corrosion.
- Heavy-wall construction, tight manufacturing tolerances
- Self-aligning shaft minimize vibration and promote longer seal life
- Dynamically balanced impellers
- High efficiency design up to 1200 CPS



Ampco LH Series

Ampco's LH series of high pressure centrifugal pumps offer significant space savings and eliminate alignment problems. LH pumps are available in 3 models ranging from 15HP to 75HP.

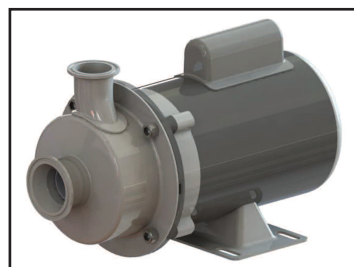
- Max inlet pressure of 600 PSI
- Close-coupled, premium efficiency motors with JM frames
- Seals specifically designed for high pressure operation
- Lip seal flush option
- Standard stainless steel adapter



Ampco SP Series

The self-priming capability of Ampco's SP liquid ring pumps make them ideally suited for CIP return applications and for handling products with entrained air. The ability to handle products with entrained air makes SP pumps extremely efficient for emptying tanks and drums.

- SP pumps are available with either single or double external mechanical seals.
- Standard adapters are made of 304 SS to resist corrosion
- Unique vane-shaped impeller enable SP pumps to handle shear sensitive products efficiently
- SP-Series pumps have a standard 32RA (150 grit) finish on all product contact surfaces
- SP pumps are in conformance with 3A sanitary standards for centrifugal and positive rotary pumps



American Stainless Pumps

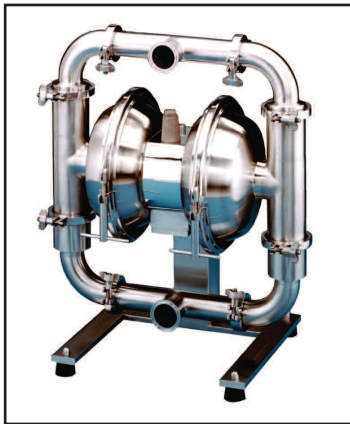
The model FSPS is a fabricated stainless steel centrifugal pump made of food grade materials, and fitted with sanitary* Tri Clamp style suction and discharge fittings. This Pump is not 3A or FDA rated.

- Up to 100GPM and 75 feet of head
- Open and Enclosed impellers are available
- Temperatures up to 250° F
- For applications that do not require 3A or FDA certifications

DIAPHRAGM PUMPS**Yamada Diaphragm Pumps**

Yamada FDA Compliant Pumps were specifically designed for food ingredient manufacturers, pharmaceutical manufacturers, and cosmetic processors, where 3A or USDA Standards are not required. PTFE coated or Polypropylene air side, and sanitary capped center disk(s). All FDA pumps come standard with PTFE wetted o-rings, PTFE check balls and FDA compliant diaphragms.

- 316 stainless steel housing with passivated satin finish
- Self-priming units
- Ability to run dry without damage
- 215 GPM up to 100 PSI
- ¾" to 4" sanitary clamp fittings
- USDA and 3A Approved materials

**Murzan Diaphragm Pumps**

The Murzan PI-50 is the best alternative in the market for handling suspended solids or shear sensitive products with practically no damage. Its unique design is prepared specifically for the sanitary industry and can be cleaned in place. The PI-50 is an excellent alternative for unloading all types of containers due to its self priming capabilities and the possibility of running dry without damage.

- 2", 3", 4" inlet/outlet; Large Chamber
- CIP Capable; Mobility
- Swivel base (to recoup expensive product or remove remnant cleaning solutions)
- Various Diaphragms and Gaskets
- Three Check Valves types: Ball, Guided Ball (mushroom), and Flapper
- 3A Approved

**Murzan DUS-50 System**

The Murzan DUS-50 is the ultimate solution for emptying the most viscous materials from 55 gallon drums. Works with or without liners or aseptic bags.

- EASY TO CLEAN
- Empties 55-gallon drums of the heaviest and most viscous products in less than 3 minutes
- Metering system for volume or weight while pumping available (optional)
- Totally portable
- Stainless Steel 316L Non-Porous Wetted Parts, Pneumatic Operated
- 3A Approved

DRUM PUMPS AND MIXERS



Lutz Progressive Cavity Drum Pump

Viscous liquids often present a challenge in trying to transfer them. Lutz offers a range of progressive cavity pumps which covers a wide variety of viscosities. All pumps can be disassembled and cleaned, which is an essential requirement for the food, beverage, cosmetic, and pharmaceutical industries. Running at relatively low speeds shear sensitive liquids and liquids that contain solids present no problem.

- For semi-viscous or even highly-viscous liquids from 1- 100,000 CPS
- Positive displacement pump with bearing flange according to eccentric screw principle
- With electrical or air-driven drive motors
- For mobile and stationary use
- Easy detachable pump tube
- 3A Approved



Flux Centrifugal Drum Pump

The completely dismountable FP 427 food is a seal less barrel pump that works based on the principle of an axial-flow propeller food Pump. Seal-less unit consists of drive motor and pump. Via a clutch, the motor drives the drive shaft which has a propeller-like impeller attached to its end. Delivery by the pump requires that the impeller is completely covered with the fluid.

- Several pumps may be driven by one motor
- Easy to dismantle
- Shear sensitive to solids in the fluid
- One pump for various fluids
- Short changeover times
- 3A Approved



Flux Progressive Cavity Drum Pump

The Flux food Series includes the 550 progressive cavity pump and the eccentric worm drive pump F560. All food pumps are in stainless steel. They cover a wide range of applications from low to high viscosity fluid transfer and are easy to dismantle and clean.

- Up to 63 GPM
- 1-100,000 CPS
- 700/1000/1200 immersion length mm (27/39/47 inches)
- Main material is stainless steel, all parts in contact are 3A and USDA certified
- Clamp 1 1/2" discharge connection
- 3A Approved



Fusion Mixer

Sanitary mixing equipment and aseptic mixers demand strict compliance with industry standards, including FDA, 3A, USP-VI, or BPE specifications. Common applications for stainless steel sanitary mixers include food, beverage, or dairy processing, as well as processes that require brewing equipment. Fusion is proud to offer you both standard and custom sanitary mixing options to meet your process requirements.

- Stainless steel sanitary mixers for top entry configurations with sealed tanks
- All wetted parts are standard 316L stainless steel
- Various seal options
- Stainless Steel gearboxes and accessories
- Various impeller styles and sizes
- 3A, FDA, USP-VI or BPE Approved

B L E N D E R S A N D S H E A R P U M P S



Ampco Dry Blender

Fast consistent blending is now available with the Ampco AC+ Dry Blender Series. Designed to thoroughly and efficiently blend dry ingredients with liquid ingredients.

- All wetted components are 316L Stainless Steel
- Fast, uniform and continuous material absorption up to 350lbs
- The ease of operation promotes increased production
- 3A Approved

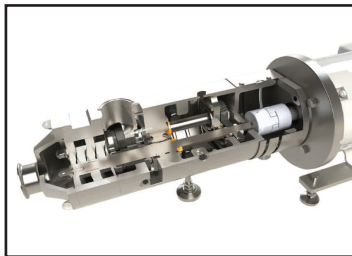


Ampco PM Powder Mixer

Blend wet and dry ingredients together quickly and precisely with the Ampco PM Powder Mixer. You will save time and money by providing optimal mixing consistency with a reduced processing time.

- Improves processing efficiency
- Easy to reach table and hopper
- Customizable to application
- Clean in place
- 3A Approved

O T H E R S A N I T A R Y P U M P S

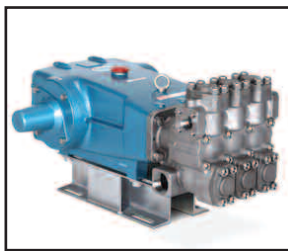


Ampco ATS Twin Screw Pump

Virtually pulsation free operation insures gentle handling of the product. Fully CIP and SIP able. Direct Coupled motors and gear motors are available.

- Viscosities ranging from 1 to 1,000,000 CPS
- Flow rates from 0.1 to 1450 GPM
- Maximum pressure 250 PSI
- Up to 1.625" solids
- 3A and EHEDG Approved

C L E A N I N G A N D W A S T E R E M O V A L P U M P S



Stainless Steel Cat Pump

Cat Pumps are the leaders in high pressure washing pumps. A wide variety of pumps to serve all high pressure cleaning applications.

- From .5 to 240 GPM
- From 100 to 10,000 PSI
- Wide variety of materials including Stainless Steel
- Not FDA or 3A Approved



Stainless Steel BJM Waste Removal and Shredder Pumps

BJM produces submersible pumps made of Stainless steel to handle liquids that will corrode other materials of pumps. Including Beer, Fruit juice, Starches and much more.

- Available in 316 Stainless Steel and Cast Iron
- High corrosion resistance
- Oil cooled seal for extended seal life (Optional Seal Minder)
- Shredder Pumps have Tungsten Carbide shredding teeth and suction plate
- Shredder Pumps come standard with SIC double mechanical seals and seal minder.
- Not FDA or 3A Approved

SANITARY ACCESSORIES



Blacoh Dampeners and Leak Containment Systems

- Removes both hydraulic and acoustic pulses
- Improves life of pumps and systems
- Quiets system noises
- 3A Approved
- Built to required specifications
- Spill Stop leak containment systems save downtime and money



Yamada Dampeners and Liquid Level Controllers

- FDA Approved
- 3/4" to 2.5" Tri-Clamp
- Automatic air motor
- Low air consumption
- PTFE coated air side optional
- Liquid Level Controllers can be used to automate your filling and emptying operations.



Cipriani Valves

- 316L Stainless Steel
- 3A Approved
- Butterfly Valves and Actuators
- Check Valves
- Flow Control Valves
- Pressure Relief Valve



Shelco Filters

- Designed for general purpose industrial and commercial filtration needs
- 304L or 316L stainless steel construction for maximum durability and corrosion resistance
- V-band clamp or swing bolt closures for quick and easy cartridge changes
- 3A Approved



Exergy Sanitary Shell and Tube Heat Exchangers

- Heat Transfer Rates to 3,500,000 BTU/HR
- Flows up to 160 GPM Pressures UP to 1500 PSI
- Clean-In-Place
- 3A Approved



Novaflex Hose and Fittings

- Sizes 1/2" to 4"
- Temperatures ranging from -40 to 240 degrees
- Meets 3A and FDA requirements
- Clean-In-Place

For any fluid-handling application, we have the fluid-handling solution.

BPH Pump & Equipment, Inc. is a full-service distributor of fluid-handling equipment. Our goal with each customer is to ensure that the entire process of purchasing, installing and maintaining your fluid-handling equipment is as easy and trouble-free as possible. Virtually every component of your fluid-handling equipment and its operation is handled by us – no more hassles with a variety of vendors.

We offer an outstanding assortment of products to accommodate any fluid-handling application. But, that's only where our service begins.

We continue to provide direct sales and service support to assure that every fluid-handling component we install performs to our customers complete satisfaction.

At **BPH**, we measure our success by the performance of our products. To assure peak performance of each product we sell, we provide the following services.

Customized application and system engineering:

BPH offers 75 years of engineering experience assuring that your system is expertly designed and installed to meet your particular needs and operates at optimum effectiveness and efficiency.

Troubleshooting:

BPH offers prompt response to any problem associated with your system. We offer on-site evaluations and repair. As needed, off-site repairs are handled in our facility located in McHenry, IL.

BPH will also repair or replace lines not directly sold through our company.

Fast shipment from our large inventory
(see our manufacturers listing below).

Complete customer service and product support
handled promptly by a fully trained and experienced support staff.

We are supported by the *Small Business Association*.

For your convenience, we accept VISA, MasterCard and American Express.

BPH also distributes the following fine products:

