

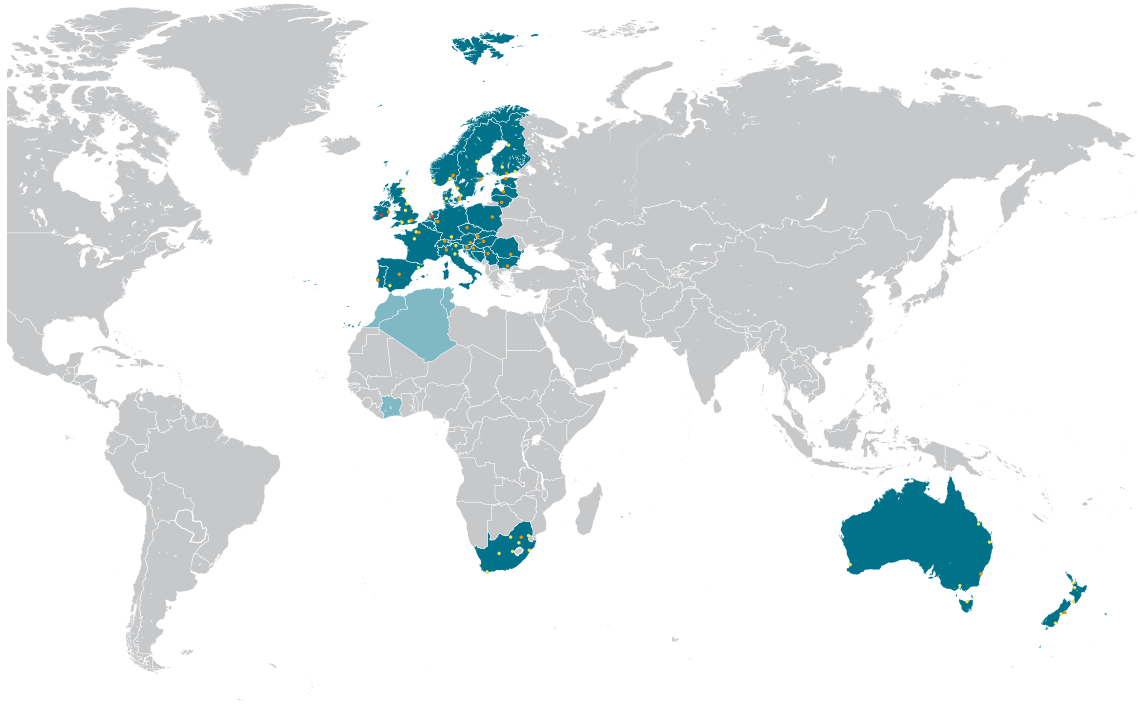


*fluidity.*  
**nonstop**

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING

 AxFlow

# AxFlow near you



## About AxFlow in Ireland

Our team of experienced engineers are here to offer the very best technical advice and support. That, together with products from world leading manufacturers, means you can be sure of the highest quality equipment selected to provide the most precise, cost-effective and reliable solution to your fluid handling requirements.

The role that fluid handling systems play in your process is vital, yet often hidden. That's fine with us; we believe in 'fit and forget'. We work hard so that we can fit and you can forget.

## AxFlow Group

The AxFlow Group is one of Europe's largest suppliers of centrifugal, rotary positive displacement and reciprocating pumps. Operating with offices and service locations in 27 European countries and offices in South

Africa, Australia and New Zealand, AxFlow with nearly 1100 employees represent many world leading pump manufacturers. It is not just about selling pumps and spares – AxFlow provide face-to-face technical support and problem solving capabilities unsurpassed within the pumps industry. That in-depth knowledge along with the ability to select the "best pump for the job" irrespective of supplier, allows AxFlow an almost unique perspective on providing the optimum solution. Recent years have seen AxFlow develop a comprehensive pump service and repair organisation as well as the ability to build bespoke pump-systems to solve process problems.

Our ultimate parent company Axel Johnson was formed in 1873 and to this day AxFlow remain part of a family owned business.

# It's all about getting the right pump for the job.

In any fluid handling system the pump is the heart and when needed, it must function without interruption otherwise there will be an operating failure. Unlike the one-off human heart design we get to choose the type of pump that will best perform the function of the heart in your particular system.

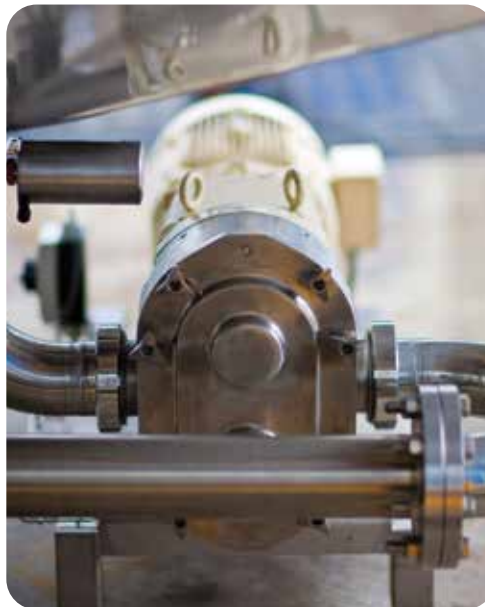
Pumping technology plays a key role in the effective operation of any system and the correct choice of pump is essential for productivity, reliability, profitability and safety.

At first glance, the choice of pump is simple. Do you know the required flow, pressure and safety standards? In reality, the choice of the right pumping technology is complex.

For starters, ask yourself, what is the fluid? What are the fluid characteristics? Is it viscous, hot, cold, abrasive, erosive, corrosive, volatile or shear sensitive? Is the pump primed or at a high system pressure or does it need to be self-priming? Should the pump have special seals or be seal-less? Will the pump need to be CIP or SIP cleaned and suitable for handling food products? Should the pump be explosion proof to operate in an ATEX environment? Do you need easy maintenance or extreme longevity and ultimate mean time before failure?

In every pump selection there are so many factors that need to be taken into consideration and there is no "standard" solution. Using our pump know-how, our job is to consider all factors relevant to your pumping requirement to make sure we select the pump that will most closely meet your needs.

Our expertise and know-how along with access to world leading brands of rotary positive displacement,



centrifugal and reciprocating pumps means you'll get the right pump for the job.

## Leading product brands

We represent the "best in class" leading brands in pumping technology. We have long term relationships with these world renowned manufacturers built upon their ability to produce pumps of the very highest quality married to our in-depth technical

process knowledge and the variety of services we provide to our customers in Ireland.

Our comprehensive capability to maintain, service and repair pumps throughout Ireland means we are there to support our customers not just in the sale of pumps and spares but also in keeping their processes running. We design and build pump-sets and pumping process systems aimed at optimising performance.

> APV®

> Bran+Luebbe®

> Waukesha Cherry-Burrell®

> Johnson Pump®

WILDEN®

ALMATEC®

realAx | hose pumps

KOV HOMO® products

MOVEX®

FLUX

ISV

ORBINOX

# Market sectors

## Chemical

Pumping hazardous, toxic, corrosive, explosive, erosive and carcinogenic liquids at extreme limits of pressure and temperature. Sealless technologies for maximum product containment and lowest life cycle costs.



## Coatings

Pumping resin, adhesives, lacquers, paints, inks, bitumen, solvents, polymers and solutions.



## Food and Beverage

Pumping hot prepared foods, soups and sauces. Pumping yogurt, fruit concentrate and honey. Pumping butter, paste and oil. Pumping beer, whisky and yeast slurry.



## Pharmaceutical & Biopharma

Ultra pure liquids, cultures and direct injectable drugs. We have Pumping equipment to meet the highest standards this industry demands.



## Confectionary

Pumping chocolate, syrup, fondant and gelatine.

## Personal Care, Soaps & Pharmaceuticals

Pumping body creams, shampoo, liquid soaps, toothpaste, oral mouthwash and cough medicine.



## Waste Water Treatment

Pumps in sewage handling plants. Pumping in industrial/factory effluent plants. Pumps in raw food washing processes. Pumps in chicken and meat processing effluent systems.



## Industrial Minerals & Metals

Pumping Titanium Dioxide, Calcium Carbonate, Kaolin, Diatomaceous Earth, Sand and Lime slurries. Pumps used in steel production and metal coating.

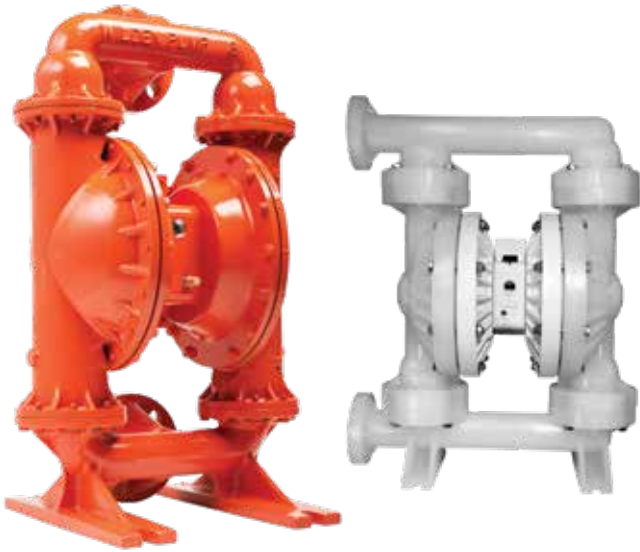


## Environmental

River floodwater pumps, estuary and dockside seawater flood prevention pumps.



## Air Operated Double Diaphragm Pumps



**WILDEN**



The **Saniflo™** Series pump line is specifically designed to meet the strict cleanliness guidelines established for sanitary process applications. Saniflo™ pumps incorporate a straight flow-through design, allowing large solids passage and easy drain down in CIP processes.



### Wilden® Velocity Series compact pump.

Featuring the industry's first detachable mounting foot, the Velocity Series air-operated double-diaphragm (AODD) pump has adaptable mounting capabilities, is competitively priced and is the complete package for all small-dosing applications.

#### Multiple mounting options

- 1/4": 4.3 m (14.2') of dry suction lift for better priming
- 1/2": 5.1 m (16.9') of dry suction lift for better priming
- Startup pressures as low as 1.03 bar (15 psig)
- Bore-seal design eliminates leaks that result from torque decay
- Interchangeable footprint with previous Wilden designs (P.025, P25 and P1, P100)

## Wilden Product range

*Air Operated Double Diaphragm pumps from the worlds largest manufacturer.*

Wilden's revolutionary **Advanced™** Series pumps were specifically designed to maximum performance and efficiency. The bolted configuration of these pumps ensures total product containment while the redesigned liquid path reduces internal friction to maximise output.

**Flow rate: up to 60 m<sup>3</sup>/h**  
**Suction lift: up to 9.5 m**  
**Pump sizes: from 1/4" up to 4"**

**Atex models available**  
**3A and EHEDG options available**



SANIFLO



PRO-FLO SHIFT

**Available in Wilden's Advanced™ and Original™ Series air-operated double-diaphragm (AODD) pumps, the Pro-Flo SHIFT:**

- Achieves up to 60% savings in air consumption
- Delivers more yield per SCFM versus competitive AODD pumps
- Costs 50% less than electronically actuated ADS
- Has fewer operating parts, meaning less downtime and simplified maintenance
- Is available in a single-point exhaust option (for submersible applications)



## Air Operated Double Diaphragm Pumps

### Almatec Product range

The **ALMATEC™** series manufactured by Almatec GmbH includes a complete line of versatile pumps made for nearly any process application. With machined sealing surfaces and superior product containment, the ALMATEC™ pumps will exceed your expectations about how an air-operated double-diaphragm pump should perform.

The **E-Series** represents the latest generation of plastic air-operated double diaphragm pumps made in solid design.

**Flow rate: up to 48 m<sup>3</sup>/h**  
**Suction lift: up to 9.5 m**  
**Pump sizes: from 1/4" up to 3"**  
**ATEX available**



E-SERIES



E-Series pumps made of PE conductive and PTFE conductive meet the ATEX requirements of the directive 94/9/EG.



C-SERIES



The **ALMATEC™** C-series range of Air Operated Double Diaphragm (AODD) Pumps is a reliable solid-design with increased pump safety due to innovative ring-tightening structures. The C-Series range is cost-effective and has different connection options available to suit existing installations. The good suction head, self-priming and dry run capability and the absence of drives, rotating parts and shaft seals are further features.

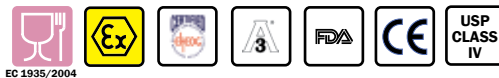
- Manifolds as separate housing parts
- Wear parts compatible with other Almatec pumps
- Flows up to 32 m<sup>3</sup>/h
- Pressures to 7 bar



## Air Operated Double Diaphragm Pumps



BIOCOR



The **Biocor™** Series pump line offers high purity pumps designed to meet the ever increasing demands of pharmaceutical and biotech processes. Designed by Almatec GmbH these pumps are at the leading edge of AODD pump technology.

**Flow rate: up to 17 m<sup>3</sup>/h**  
**Suction lift: up to 9 m**  
**Sized in DN20, DN32 & DN40**

## Blacoh Pulsation Dampeners

*Cure pulsation, vibration, water hammer & surge problems.*

Wherever vibration, pressure fluctuation, non-steady flow, noise, or rapidly wearing pump components are a problem or a significant disadvantage in the application, Blacoh can solve those problems to improve both the efficiency of the pump and the longevity of its components.

Blacoh is the leader and foremost expert in the manufacture of fluid control products for virtually every application from the harshest chemicals to the most delicate cosmetics. They serve many of the largest oil, pharmaceutical, food, chemical, and petrochemical companies in the world.



- Suitable for Pumps with discharge connection from 1/8" up to 6"
- Simple, reliable design and quick installation
- Easy in-line maintenance
- Pressure ranges up to 10,000 psi available
- Temperature ranges from -51 °C to +205 °C
- Custom models, larger sizes and higher pressure ratings available on request.
- Bodies available in a full range of chemically resistant materials
- Bladders available for even the most corrosive applications

**BLACOH™**  
FLUID CONTROL



## Progressive Cavity Pumps

# Mono EZstrip™ Family

*Keeps your process running with minimal down time.*

EZstrip has revolutionised the way in which progressing cavity pumps and associated products are maintained. The main feature of the EZstrip is the ability to ‘Maintain-In-Place’ (MIP), making a day-long maintenance operation of a PC pump into a 30 minute job.



BY SIMPLY REMOVING A FEW SCREWS, THE SUCTION CHAMBER IS EASILY DISMANTLED, GIVING YOU ACCESS TO TAKE OUT ANY RAG BUILD-UP, A PROCESS THAT TAKES LESS THAN 2½ MINUTES.

	Performance	Build options
EZstrip Transfer Pumps	<ul style="list-style-type: none"> <li>Flows of 1 – 220 m<sup>3</sup>/h</li> <li>Up to 12 bar in all sizes</li> <li>24 bar available on some sizes</li> </ul>	<ul style="list-style-type: none"> <li>Cast Iron or SS</li> <li>Range of elastomers</li> <li>Alloy Steel / SS rotating parts</li> </ul>
EZstrip Cake Pumps	<ul style="list-style-type: none"> <li>Flows of 0.5 – 49 m<sup>3</sup>/h</li> <li>Up to 24 bar discharge pressure</li> <li>Sludge Cake up to 30% DS</li> <li>Can be used for lime blending /BLI</li> </ul>	<ul style="list-style-type: none"> <li>Cast Iron casing</li> <li>Range of Elastomers</li> <li>Alloy Steel or SS rotating parts</li> <li>Auger &amp; inlet hopper variations</li> </ul>
EZstrip Munchers	<ul style="list-style-type: none"> <li>Up to 440 m<sup>3</sup>/h (untreated WW)</li> <li>Up to 330 m<sup>3</sup>/h on 4%DS</li> <li>Reduces solids to 5.5 mm or 8 mm</li> </ul>	<ul style="list-style-type: none"> <li>Inclined Cutter stacks</li> <li>Trash trap</li> <li>IP55 or IP68</li> <li>ATEX Zone 1</li> </ul>

## Mono EZstrip makes pump maintenance fast and easy



*County Council engineers were spending hours repairing their press feed pumps which were constantly blocking. They realised Mono’s EZstrip technology was the perfect solution.*

With its maintain-in-place technology, the pumps could be de-ragged without disconnecting any pipework. The split suction chamber gave the fitters quick, immediate access to the blocked pump internals. De-ragging the pumps or changing out the worn rotor/stator became an easy job. Mono EZstrip pumps replaced both the old pumps, alleviating the pressure on the fitters to keep the plant running.

Commenting on their success, the Senior Engineer: *“I welcome this new innovation in PC pump technology and have seen a major benefit in replacing other PC pumps on various sites with the Mono EZstrip pump because of the ease of maintenance and savings on costly down time”.*

Duty details:		AxFlow Solution:
Liquid	Dissolved Sludge	Model: EZstrip Z15AC with <ul style="list-style-type: none"> <li>2.2 kW inverter rated geared motor reduced to 356 rpm at 50 Hz</li> <li>Cast iron casing, Hard Chrome plated Alloy steel rotor, nitrile stator and single mechanical seal</li> <li>Port size is 65 mm PN16 Flanges</li> </ul>
Dry Solids	2% DS	
Capacity	4 – 10 m <sup>3</sup> /h	
Pressure	1 - 2 bar	





## Munchers & Screens

# Mono Pump Station / Inlet Works Protection

- Equipment to handle macerating, screening or a combination of both
- Munchers save hours in maintenance by preventing pumps from blocking
- Discreens are dynamic, self-cleaning and don't need regular maintenance/cleaning
- Discam units efficiently handle high flows, combining two proven technologies
- Local support with short lead times on equipment and spares



	Performance
Mono Munchers	<ul style="list-style-type: none"> <li>• Low speed, High Torque macerating</li> <li>• Installed in channels, sumps or pipelines</li> <li>• Handles flows of 1 180 m<sup>3</sup>/h</li> <li>• Solids reduced to 5.5 mm or 8 mm</li> </ul>
Mono Discreens	<ul style="list-style-type: none"> <li>• Intermeshing rotating discs pass solids to one side</li> <li>• 3 – 10 shafts, 200 – 1 750 mm high</li> <li>• Discs spaced at 2.5, 5, 9, 13, or 18 mm</li> <li>• Flows up to 13 400 m<sup>3</sup>/h</li> </ul>
Mono Discams	<ul style="list-style-type: none"> <li>• Flow rates up to 16 000 m<sup>3</sup>/h</li> <li>• All solids reduced to 5.5 mm or 9 mm</li> <li>• 1 m, 1.5 m or 2 m heights</li> </ul>



### Genuine Mono Parts & Mono Universal Parts Family

- We supply wearing parts for almost all main PC pumps – Seepex, Netzsch, Allweiler, PCM
- All Parts are high quality, manufactured by Mono
- **Large range of stock held between the AxFlow and Mono UK stores means short lead times**
- We have the capability to keep your process going with minimal down times

### Mono EZparts

- Available for all Mono EZstrip pumps
- Preassembled in relevant sections
- Ready to install for faster turn-around times



## Process Equipment

### ABO Butterfly Valves

The ABO Series 900 Butterfly Valves are of premium quality with a resilient seat designed for use in industrial applications. Whether it is potable, sewage, sea or industrial water, light chemicals, pharmaceuticals, oil or oil derivatives, sugar juice, as well as applications in the food processing industry, ABO Series 900 will provide long-term reliability and low maintenance requirements.

- Body type options include Wafer, Lugged and Double Flanged
- Options for disc material for brass, Aluminium bronze, Stainless Steel, Ductile Iron Epoxy Coated, Hastelloy, Titanium and Halar or Rilsan Coating.
- Manufactured in accordance to ISO 9001, EN12266-1, ISO 5208
- Seat Material options include NBR, EPDM, Viton, Silicone, Epichlorohydrin and Hypalon
- Top flange manufactures according to ISO 5211



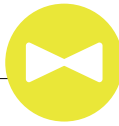
 **ABO** valve



### ISV Butterfly Valves

The ISV Butterfly Valve is a cast iron epoxy coated valve manufactured in accordance to ISO 5211 and is commonly used for flow isolation and regulation for industrial and commercial applications. Butterfly valves provide low pressure loss and leak free operation and are available with manual, electric or pneumatic actuation depending customer requirements.

- **Body: Ductile Iron 0.7040 Epoxy Coated**
- **Seat: EPDM -25 °C to +125 °C**
- **Sizes: 50mm – 300mm**
- **Disc: Ductile Iron epoxy coated or Stainless Steel 1.4308 CF8M**
- **Dimensions: According to EN558 Series 20, ISO5752 Series 20**
- **Flanges: Wafer or fully lugged pattern to suit flanges PN6/10/16**



## Process Equipment

### Auma Actuators

Auma actuators are one of the industry's leading manufacturer in Electric quarter and Multi Turn valve automation solutions, available for duties from simple ¼ turn On/Off to Fully Modulating Multi turn actuators with various control options – Profibus, Modbus, analogue Position control and more.

With options such as Ex Rating, IP68 environmental protection, Non-intrusive / Bluetooth setup and UPS supply.



- Quarter Turn (SQ) and Multi Turn (SA)
- Available in 110v/220v 1phase or 380/400 v 3phase
- IP67 – IP68
- Supplied as standard with "Matic" control unit, for selectable Local / Remote control, with Reversing Contactors, Push Button Control
- Indicator lamps for Fully Open / Fully Closed, Running and Fault Display
- Adjustable Torque and Limit switches
- Manual Override via De-Clutchable Handwheel
- Paint Specification – C5M Marine Grade
- ISO Standard Valve Mounting Pad
- Visual Position Indication
- Available up to 1500 Starts per hour

**auma**<sup>®</sup>  
Solutions for a world in motion

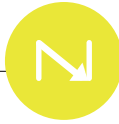


### Airpower Pneumatic Actuators

The air power actuator uses the same dimensions for double and single acting actuators with a 90° or 180° pivoting angle. This means that a double acting actuator can easily be converted to a spring return actuator by adding springs and vice versa. The aluminium housing is hard anodised and powder coated. The caps are manufactured die cast aluminium and is likewise powder coated allowing for deployment possibilities in almost all situations especially critical environments meaning that the Air Power Pneumatic actuator will suit all your needs for 90° - 180° valve actuation.

- **Housing:** Aluminium alloy, hard anodised, outside PE Coated
- **Interface:** Namur VDI/VDE 3845
- **Ambient Temperature:** -35° - +80° C
- **Torque range:** 2 Nm to 13,022 Nm
- **Control Pressure:** 2 – 10 Bar
- **Control Media:** Filtered air minimum acc to DIN/ ISO 8573-1 Class 4

**airpower**  
europe gmbh 



## Process Equipment

### Noah Actuators

The Noah Series of Electric  $\frac{1}{4}$  Actuators are particularly suitable for Ball, Butterfly and Plug Valves. Options are available to suit most application environments and industry types. Its compact and simple design will assure reliability and quality for customers even in hazardous locations. The Noah Series of Electric Actuators give the best automation solutions, long life, low maintenance and reliable service.

- Torque ratings from 30Nm up to 3,500Nm.
- Open/Close operation or Modulating by 4-20mA control signal.
- IP67 as standard.
- Operating voltage of 24VDC, 110VAC, 220VAC or 380VAC.
- Epoxy Coated Aluminium Body

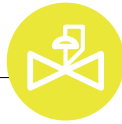


### Duckbill Valves

ISV Duckbill check valves require minimal maintenance. The simple one-piece design and reinforced rubber construction eliminates the mechanical and metal components that can wear over prolonged periods of time (particularly in Maritime/ Storm Water applications). The flexible construction will allow large objects to pass without blockage yet offers exceptional back flow prevention.

- Slip on, Flanged or Insertable Duckbill Valve.
- Available from 50mm-3000mm (Slip On)
- 50mm-1200mm (Flanged)
- Option available for PN10 or PN16





## Process Equipment

### Gate Valves

The ISV range of Gate Valves are designed and manufactured in accordance with BS5163. Primarily for Water, Waste Water, Neutral Liquids, and Industrial Applications. All valves are Shell Tested to 24bar prior to leaving works, have a WRAS approved two-part Epoxy Blue Coating inside and out, Stainless Steel Shaft and Replaceable EPDM Seals.

- Ductile Iron Body
- Available in Sizes from 50mm to 2000mm
- ISO Pad and Keyed Shaft for Direct Actuation
- Flanges to Suit PN6/10/16
- Clockwise or Anti-Clockwise closing
- Gearbox, Handwheel or Cap Top Operation



### Swing Check Valves

The ISV range of Swing Check Valves with Resilient Seats features a unique Body and Disc Design, to allow 100% Flow Area. Designed to reduce the effects of Water Hammer whilst offering a Fast-Acting Closure and eliminating the need for External Levers and Weights. Designed primarily for Water and Waste Water applications. All valves are Shell Tested to 24bar prior to leaving works, have a two-part Epoxy Blue Coating.

- Ductile iron body and bonnet
- Available in Sizes from 50mm to 600mm
- Flange drillings: PN10, PN16, ANSI
- External backflush device
- Fully moulded disk assembly
- Nylon reinforced hinge
- Temperature rating - (EPDM) 10°C - 120°C

### Dual Plate Check Valves

Zetkama Wafer type Dual Plate Check Valves are manufactured in accordance with the most severe product norms and in conformity with the quality requirements of EN ISO 9001. The maintenance free, light and economic self-acting Non-Return Valve is available for a broad range of applications and allows installation in all positions.

- Grey Cast Iron or Stainless Steel body.
- Available in sizes from 40mm to 600mm.
- Flanges drilled in accordance to EN 1092-1 & EN 1092-2; PN10, PN16, ANSI.
- Minimal Opening Pressure
- EPDM or NBR Seals

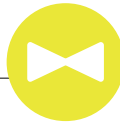


- Grey Cast Iron Body, Stainless Steel strainer, EPDM gasket
- Available from sizes 40mm to 300mm
- Flanges drilled acc EN 1092-2, PN16
- Epoxy Painted Body

### Foot Valves

Zetkama Cast Iron Foot valves are maintenance free, environment-friendly and suitable for operation in any position. With excellent sealing properties even on low head applications, and low headloss characteristics, these valves are ideally suited to water supply and pumping systems.





## Process Equipment

### Penstock Valves

Orbinox penstocks are suitable for different types of applications with a highly versatile flow control for water and wastewater treatment plants, irrigation, reservoirs, hydraulic works and hydro-electric power plants. Orbinox penstocks are available as wall mounted 4 side sealing, channel mounted 3 side sealing and weir penstocks. Orbinox can also offer a range of aluminium stop logs specific to site requirements.

- Cast Iron, Stainless Steel Bodies available
- Available from 50mm to 1200mm as standard (other sizes available upon request)
- PN10, PN16 ANSI 150 Flanges available
- Options for UNI or Bi-Directional
- Gate Materials options of AISI 304 & AISI 316 Stainless Steel
- Rising and Non-Rising Stem
- Operation options for Gearbox, lever, handwheel, Pneumatic and Electric actuation.
- Seat material options for EPDM or metal.

- Sealing: Uni or bi directional
- Sizes: 200x200 to 4000x4000mm (other sizes are available on request)
- Frame & Slide: AISI 304L / AISI 316L
- Guides: Polyethylene (HMWPE)
- Seal: EPDM / Nitrile
- Stem: Rising / Non-rising
- Operation: Manual, electric, Pneumatic



### Orbinox Knife Gates

The Orbinox EX & EB model Knife Gate Valves are UNI or Bi-Directional valves designed for general industrial service applications. The design of the body and seat assures non-clogging shut off on suspended solids in industries.



### Pressure Relief and Reducing Valves

Goetze KG Armaturen is a world leading German Manufacturer of Safety Valves, Pressure Relief and Pressure Reducing Valves. Their comprehensive range covers most duty applications. Whether for Air, Water or chemicals.

- TUV and ISO quality certified,
- Options for preset, calibrated and certified, or can be supplied for user setting.
- ATEX rating is optional for all products.
- Material options such as Gunmetal, Stainless Steel and Spheroidal Graphite Cast Iron





## Metering Pumps

### Blue-White

Blue-White Industries is a leading manufacturer of chemical metering pumps (diaphragm, peristaltic), flowmeters (variable-area, paddlewheel, ultrasonic), and water treatment accessories.

#### Blue-White Flex-Pro

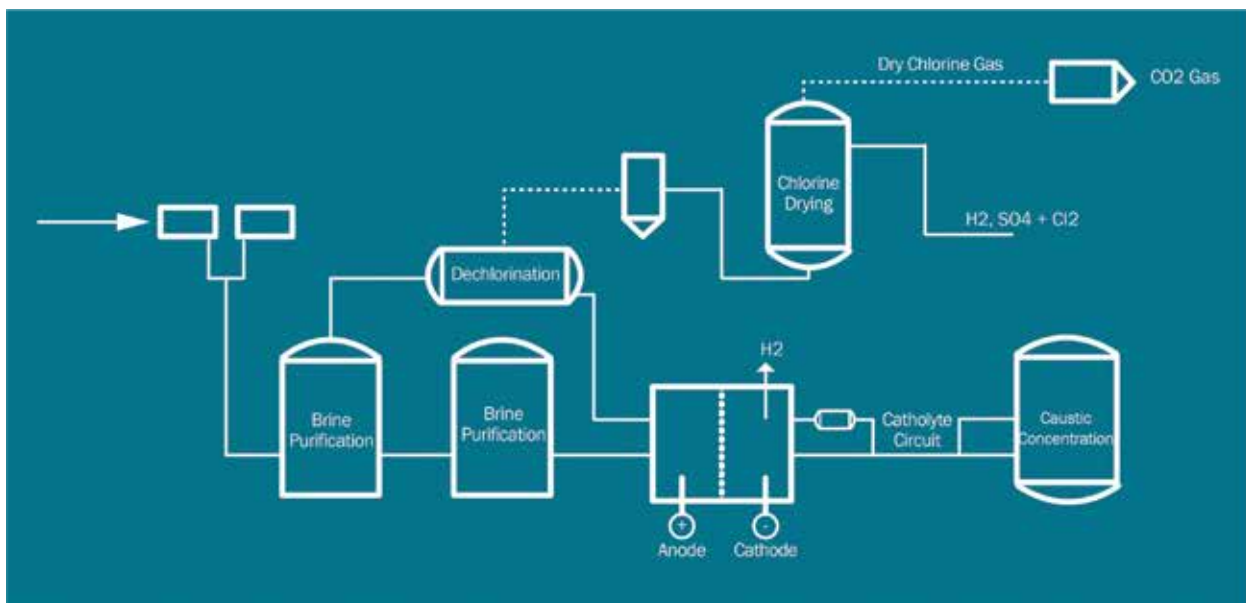
The compact Blue-White ProSeries hose dosing pumps can be widely used in general Chemical Dosing applications as well a wide range of applications in the water and waste water treatment sector. The pumps are ideal for accurate dosing and injection of aggressive and viscous chemical with a low dosing capacity. The design of the Flex-Pro ensures that the pump is self-priming and the medium only comes into contact with the hose.



- PVDF Hose Connection
- Patented Tube Fail Detection (TFD)
- Flows up to 600 l / h
- Pressures to 8.6 bar
- SCADA & Pulse inputs 4-20mA, 0-10Vdc, 0-30 VDC
- Digital touch pad with backlit LCD display
- Advanced serial and Ethernet communication



Blue-White  
Industries, Ltd



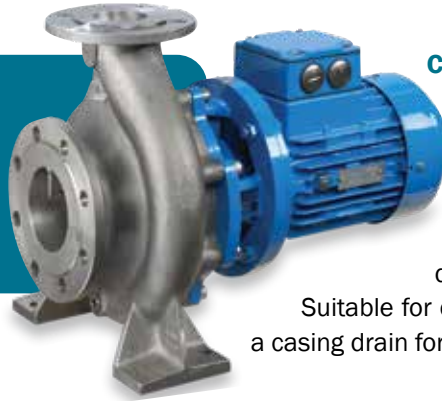
A chlorine production line



## Centrifugal Pumps

### Johnson pumps

- Flows up to 850 m<sup>3</sup>/h
- Pressures to 10 bar
- Adjustable axial impeller position
- Shaft seal: mechanical bellows to EN12756
- Easy and low cost maintenance



#### CombiBloc from Johnson Pump

These closed coupled centrifugal pumps are designed for optimal suction capabilities with minimal flow distortion. The hydraulic balancing of the closed impeller gives extended bearing life & high efficiencies.

Suitable for clean & aggressive liquids, it includes a casing drain for rapid emptying.

**Johnson Pump®**



#### CombiNorm from Johnson Pump

Johnson Pump's family of long-coupled horizontal centrifugal pumps maximise interchangeability of parts. The great variety in materials, flexible choice in bearings & shaft seals give this range a large field of application. Suitable for clean & slightly contaminated liquids.

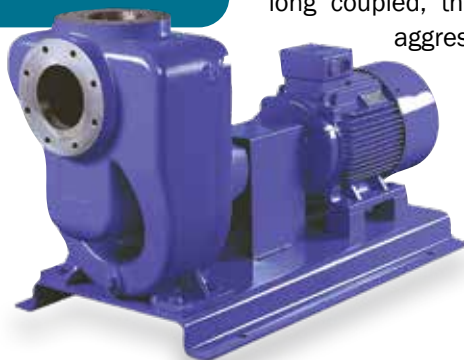
- Flows up to 1500 m<sup>3</sup>/h
- Pressures up to 10-16 bar
- Suitable for temperatures up to 200 °C
- Simple maintenance with standard components and Back-Pull-Out principle
  - Magnetic Drive versions available



- Flows up to 300 m<sup>3</sup>/h
- Pressures up to 8 bar
- Self-priming up to 7 m
- Oil bath for mechanical seal prevents dry running
- No need for non-return valve on inlet

#### FreFlow from Johnson Pump

Self-Priming centrifugal pumps with a high performance & easy operation. The robust design ensures a durability to the pump lifespan. Suitable for low viscosity liquids (150 cPs) & liquids with entrained gasses. Close or long coupled, the pumps will handle contaminated, aggressive or corrosive liquids.







## Specialist Pumps

### Griswold from PSG

*Griswold's line of 811 ANSI Pumps is engineered for flexibility and durability.*

The 811 is available in a wide range of sizes, capacities and materials to fit virtually any process fluid application. With over 30 selections and multiple design options, we've got your application covered – for abrasive and corrosive substances.

Challenge your existing equipment quality, delivery and costs with Griswold's ready-to-ship inventory of 811 pumps and parts. Our 811 pump line and wearing parts



interchange quickly and seamlessly with a variety of ANSI pump models and brands – without piping, baseplate or coupling changes. All at a significant cost saving.

**Flow rate: 1 to 1 700 m<sup>3</sup>/h**

### Gruppo Aturia Pumps

*Several years ago Gruppo Aturia incorporated the workforce and production facility of Caster Pumps.*

As a consequence, Gruppo Aturia offers one of the most comprehensive portfolios of magnetically driven pumps in Europe; many of which directly replace the original Caster models.

This range includes:

- PTM PP and PVDF regenerative turbine pumps.
- PTM-SP Self priming PP and PVDF regenerative turbine pumps
- PCM PP and PVDF centrifugal pumps
- PCM-SP Self Priming PP and PVDF centrifugal pumps
- STM Stainless steel regenerative turbine pumps
- NDM ISO 5199/2858 centrifugal pumps
- SVM Stainless steel rotary vane pumps
- SMKM API 685 process pumps

Gruppo Aturia is the oldest Italian pump company with 5 manufacturing plants and over 4,500 pumps operating in nuclear power plants around the world.



- Flows 0.1 to 1,800 m<sup>3</sup>/hr
- Heads to 300 m
- Temperatures -150 to 400 °C
- System pressures to 350 bar





## Centrifugal Pumps

# SPX Flow - Centrifugal Pumps

*Engineering excellence to meet the highest international standards for hygiene.*

### W+ Series from APV

The W+ design focuses on maximising performance efficiency with the highest hygienic standards. The unique volute in the backplate increases efficiency & reduces turbulence which ensures gentle product handling. W+ pumps are designed for simple maintenance and inspection of seals.



APV®

- Problem free operation and long life cycle
- 17 sizes cover up to 800 m<sup>3</sup>/h / 15 bar
- Very low noise and vibration levels
- Options include: Inducer version, 3A version, electro-polishing



### Ws+ Series from APV

The Ws+ uniquely combines the abilities of most liquid ring pumps with the efficiencies of the W+ series. The result is lower power consumption & less noise for entrained air and suction lift applications. The pumps can be configured to a specific duty point to produce efficiencies previous unobtainable with LR pumps.

APV®



- Ideal for CIP return
- 3 sizes cover up to 90 m<sup>3</sup>/h / 6.5 bar
- Particle friendly design
- Options incl: 3A version, electro-polishing, casing drain

# Verdermag

### Global Magnetic Drive Pumps.

A combination of the latest materials and engineering practices, coupled with Verder's experience in manufacturing synchronous magnet-driven seal less pumps, has created a flexible range of pumps ideally suited to modern requirements. Tried and trusted designs have been updated and developed to allow modular construction, with many interchangeable components. The pumps can be assembled from stock components to give quick response times, whilst spares requirements are kept to an absolute minimum.

**Materials: Cast iron, Stainless steel, Hastelloy C, Polypropylene, E.T.F.E and E.T.F.E. lined**

**Flow rate: up to 300 m<sup>3</sup>/h**

**Max Head: 110 m**

- No leaking seals
- Environmentally friendly
- Dry run protected
- Simple to maintain
- Long life silicon bearings and many other materials
- Atex models available



**Applications:** High/low Temperature, Thermal oils, Refrigeration use, Toxic liquid containment, Hazardous liquid transfer, Chemical processing.





## Rotary Lobe / Circumferential Piston Pumps

# SPX Flow - Positive Displacement Pumps

*Known for exceptional quality and precision made components.*

### Universal Series from WCB

The world famous Waukesha Cherry-Burrell 'Universal' brand out performs all lobe & wing type rotary pump technologies. It is sought after in all industries from general chemical to food and pharmaceutical. The non-galling Waukesha Alloy 88 rotors have tighter running clearances giving the best energy efficiencies.

- Flows up to 102 m<sup>3</sup>/h, max pressures of 13.8 or 34.5 bar
- Temperature range from -40 °C to 149 °C
- Both single & double mechanical seals or O-ring type seals
- Pump head in 316LSS as standard, gear casing in 304SS
- Rotor/shaft connection zone sealed from the product
- Large diameter shafts have a greater strength & stiffness
- Options include: Seal flush, CIP holes, aseptic & Free-drain profile, PRV cover, heating jackets, rectangular inlets



WAUKESHA UNIVERSAL I & UNIVERSAL II



WAUKESHA UNIVERSAL III STAINLESS STEEL

**Waukesha Cherry-Burrell®**



**APV®**



### DW Series from APV

Designed for ultra-hygienic applications, with minimal internal clearances. The result is low-slip and increased efficiency even on low viscosity fluids. Gentle product handling reduces risk of damage on sensitive duties. A low NPSH requirement gives improved suction capability.

- 26 sizes cover flows of 370 m<sup>3</sup>/h & pressures to 30 bar
- All models are CIP/SIP cleanable
- Easy maintenance of wearing parts
- Build variations: rotors, seals, heating jacket, integral PRV, rectangular inlet, port types.

# Industrial Rotary Lobe Pumps

*with rubber coated rotors in stainless steel  
AISI-420 or AISI-316*

Different types of connections available, large solids pass and wear-resistant plates easily replaceable.

- Self-priming
- Reversible
- Flow up to 120 m<sup>3</sup>/h
- Pressure up to 8 bar
- Viscosities up to 100.000 cPs
- Maximum solids size up to 50 mm
- Axial wear plates
- Abrasion resistance

**hoyser**





## Eccentric Disc Pump

### PSG products

*Mouvex - over a Century of Innovation and Performance.*

“This unique Mouvex technology provides extraordinary self-priming up to 9 meters and may run dry for short periods of time. This design has a compressor effect which helps to clear pipelines, therefore reducing waste. Additionally, eccentric disc pumps are very low shear for shear sensitive liquids such as sauces, silicon emulsions, cosmetics, food, etc.

Performance tests show shear rates are lower than circumferential piston pumps, lobe and gear pumps. Designed without mechanical seals, packing or magnets, the Mouvex sealless pump means no leaks. The stainless steel models are ideal for sanitary applications, carry 3A approval certification and are designed per EHEDG.

The unique **Mouvex principle** eccentric disc pump produces the pumping performance of a rotary positive displacement pump by oscillation alone. The wetted pumping elements do not rotate and the pump is totally sealless.

An extremely gentle pumping action enables the pump to handle shear sensitive liquids.



Mouvex Eccentric Disc Pumps feature product recovery capabilities that significantly reduce waste from hygienic food and beverage, pharmaceutical and cosmetic manufacturing while increasing your return on investment.

- Flow rate: up to 65 m<sup>3</sup>/h**
- Self-priming: up to 9 m**
- Pressure: up to 16 bar**
- Viscosity: up to 10 000 cps**



SLS - HYGIENIC



SLC - CHEMICAL



MICRO C

The **sealless Micro C** pump is ideal for handling low flow rates and can be used for metering/dosing applications.

- Flow rate: up to 760 l/h**
- Pressure: up to 15 bar**
- Accuracy: 0.5%**





## Screw Pumps

# Waukesha

### *Twin Screw series from Waukesha*

The Waukesha Universal Twin Screw Series Pump range offers reliability, process flexibility and smooth operation. The twin screw pump offers gentle product handling as it pumps large particulates without degradation. With front loaded access to product side seals, the pump can be easily maintained.



- 17-4PH reinforced stainless steel shaft
- Alloy 88 non-galling screws
- 316L stainless steel body and cover
- Flows up to 277 m<sup>3</sup> / h
- Pressures to 25.5 bar
- Sealing options with single and double mechanical seals
- No heat emission
- Ease of maintenance
- Hygienic EHEDG Certification
- Ideal for low inlet pressure applications



**Waukesha  
Cherry-Burrell®**

## NOV Mono Hygienic pump

### *Reliable & well-proven design for hygienic applications*

Progressive cavity pumps provide the gentlest pumping action on the market for solids handling, offering minimal product degradation in shear-sensitive applications such as salad dressings and salsas while being able to move suspended solids with minimal damage to products such as diced fruits, vegetables, and soups.

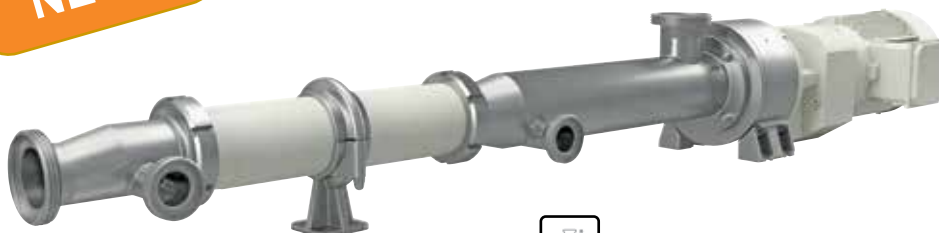
## Why choose a PC pump?

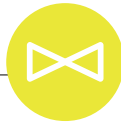
- Gentle pumping action for solids handling
- Pulsation free flow
- High pressures possible
- Viscous products possible
- Pumping solids in suspension possible, with minimal product degradation
- Relative low speed, gentle flow
- Minimal product degradation in shear-sensitive applications.

**Max Flow rate: 107m<sup>3</sup> per hour**

**Max pressure: 12 bar**

**NEW!**





## Process Equipment

# APV Process Equipment

*Engineering excellence to meet the highest international standards for hygiene.*

### APV Process Valves

APV's extensive valve range includes valves built to the highest hygienic and aseptic standards and are designed for CIP use. From simple shut-off valves to aseptic diaphragm valves, mix-proof valves and control valves, APV has an extensive offering.

- Sized 1-4" / DN25-100 and larger across most ranges
- Designed for easy maintenance, valves are modular and adaptable.
- Operated either manually or pneumatically,
- CU4 control top brings precision control, clarity and reliability to your process.
- Some valves available with ATEX / Ehedg / 3A approval



SPX D4 - DOUBLE SEAT MIXPROOF



DELTA SW4 - SINGLE SEAT



SD4 - DOUBLE SEAL MIXPROOF



DELTA RG4/RGE4 REGULATING VALVES



DKR - DOUBLE SEAT BALL VALVE



BUTTERFLY - DELTA SV/SVS VALVES



**APV®**



### Plate Heat Exchangers

APV's Plate Heat Exchangers (PHE) minimise energy consumption through more efficient process heat recovery, reducing operating costs. Plate technologies such as the Energy-saver, Duraflow, Easyflow and others ensure a PHE optimised for your requirements. Innovations such as the Duo-Safety system allow for early leak detection and preventative maintenance.

- Extensive range of plate areas; 0.01 m<sup>2</sup> – 4.6 m<sup>2</sup> /plate
- Most ranges span -35 °C to 180 °C, with further temperatures available
- Pressure ratings of 0-16 bar standard, reaching 35 bar on some.
- Gaskets designed for very quick, easy installation.
- Hygienic and Industrial Frames available
- Welded PHE for very high temperatures and pressures





## Process Equipment

### Tubular Heat Exchangers

Excellent for Food & Beverage applications, with their high resistance to fouling. Tubular Heat Exchangers are perfect for liquids sensitive to texture changes, higher viscosities & containing solids. THEs can be configured with multiple inner tubes, or with concentric inner shells. Welded THEs are designed for steam duties – no gasket seals to break down.

- Modular design allows for units in series/parallel
- Can be installed vertically or horizontally
- 3A and FDA approved
- Handling temperatures to 285°C & pressures of 60 bar



- Designed for temperatures from -10 °C to 150 °C
- Pressures up to 25 bar if required
- Upto 0.8 m<sup>2</sup> heat exchange surface per cylinder
- Service media include Steam, Glycol, Brine Hot or Cold water
- Modular units are easy to maintain with low downtime

### Scraped Surface Heat Exchangers

APV's VT+ /HT+ units are specifically designed for hygienic processing of medium to high viscosity products as well as liquids containing particles or solids. They can be installed horizontally or vertically to minimise the footprint. Floating scrapers are installed in a staggered configuration with three optional rotor diameters. The units are highly efficient due to a large product area/volume ratio. Different material options, build variations and customisation options allow for optimised product handling, heat transfer and service life across a large range of applications.



### SPX Flow Cavitator – The Next Generation in Mixing and Heating Technology

This patented technology offers breakthrough benefits for both the heating and mixing applications. The heart of this technology is the rotor with specifically machined radial holes, spinning in a liquid chamber. The spinning action generates internal liquid frictions (disk friction) and the holes create hydrodynamic cavitation.

The disk friction heats the liquid, away from the metal surfaces. This ensures heating without scale build-up and fouling on the surfaces.

The hydrodynamic cavitation creates high shear, resulting in an efficient homogenisation effect at the microscopic level. This improves product quality and functional performance. It mixes liquids with liquids, gasses or solids.

The potential applications of the unique APV Cavitator technology are numerous.



Flow rate up to 20m<sup>3</sup>/hr.



- Improved process efficiencies (time, operating costs, and/or capital costs)
- Enhanced product quality, yield and/or raw material savings
- Extended process run times related to scale-free heating
- Elimination or reduction of process downtime from maintenance requirements
- Smaller footprint than traditional technology
- Designed for easy disassembly and fully capable of CIP.
- Makes high quality emulsions at the desired particle size



## Process Equipment

### In-line mixers

The DAR inline mixer is a multi-stage rotor/stator type mixer. It provides continuous mixing of different liquid combinations, high viscosity products and inline emulsification. Ideal for butter or similar products requiring a homogenous, liquid free, blended end product.

- Alternating stator rings and rotating wheels create a tangential shear.
- Two sizes – 3" and 4" rotors
- Flow rates up to 6000 kg/h
- Close coupled IEC design
- Sanitary design, made from 316L and FDA approved gaskets



**APV®**

### Static mixers

Characterised by low energy consumption, the TPX static mixers are used for continuous mixing of different combinations of liquids, gasses and particles. It also ensures an equal mixing of different temperatures. The four helical mixing elements separate, spread, rotate and whirl fluids so that they are properly mixed.



- Flow rates up to 110 m<sup>3</sup>/h
- Lines sizes 1.5" – 4"
- Connections available in ISO, Clamp, DIN type
- Sanitary design, made from 316L and FDA approved gaskets

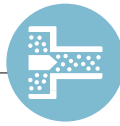
### Homogenisers

Rannie. Gaulin. Brands synonymous with Homogenisation for over 100 years. Valve technology options & experience Emulsion, disruption, dispersion. Reliable, low maintenance, precision liquid ends. Engineered power ends for minimal noise and vibration whilst maximising efficiency.

- Pressures - Rannie 1 500 bar, Gaulin 600 bar
- Flow rates - Rannie 45 m<sup>3</sup>/h, Gaulin 50 m<sup>3</sup>/h
- Homogenisation valves and type - SEO, XFD, LW Universal, patented Micro Gap
- Actuation - manual or hydraulic (optional Automated HMG Valves)







## Process Equipment


### Laboratory homogenisers

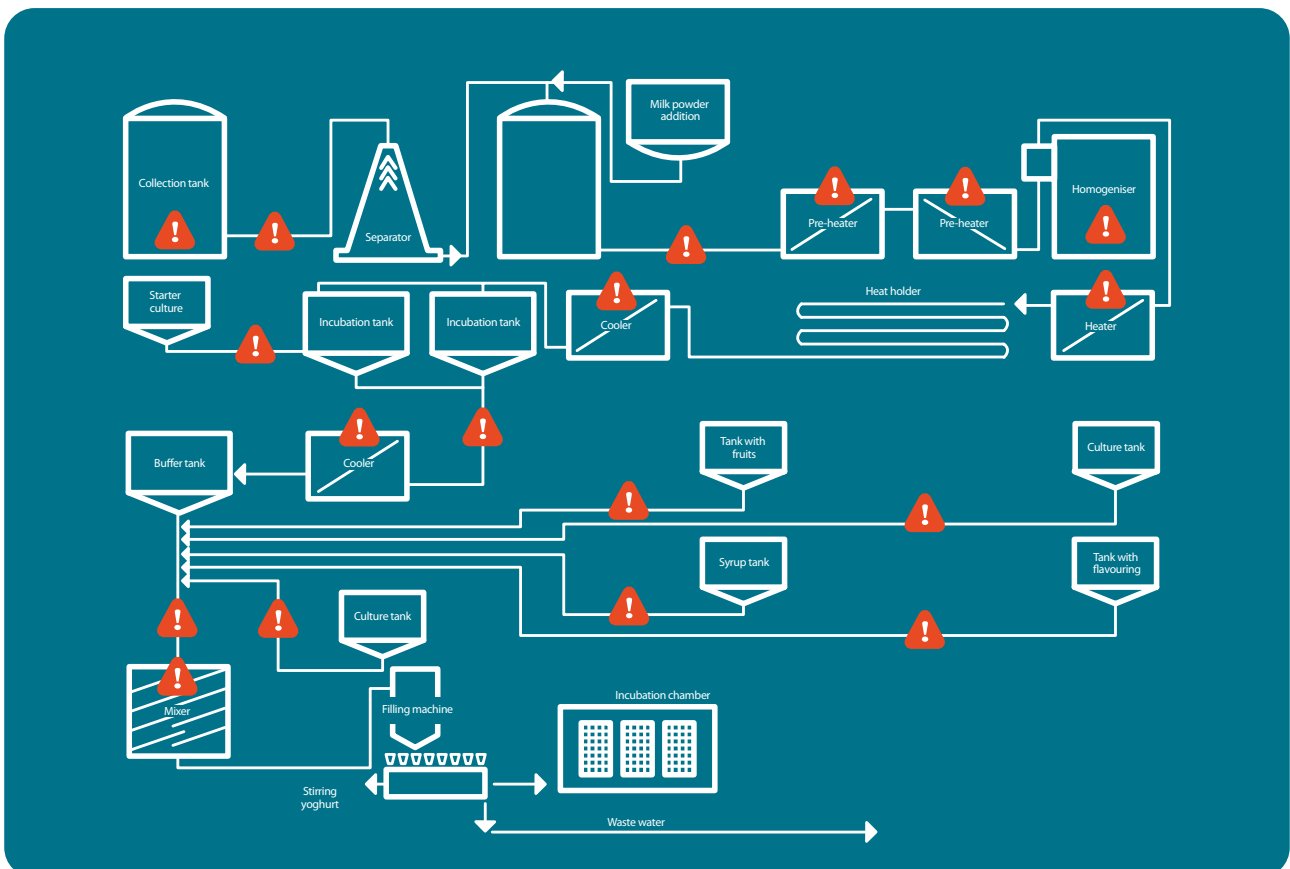
Designed for small scale testing or pilot plant use, these units are manually fed through a funnel. The homogenising pressure can be manually adjusted and there is a digital pressure display. There is the option of a 2nd stage homogenising valve.

- Two sizes – 1 000 bar & 2 000 bar
- Flow rates of 22 l/h and 11 l/h respectively
- Manually varied homogenisation pressure
- Both models driven by a 3 kW motor



## *fluidity*.nonstop in yoghurt production

A yoghurt production line best illustrates the critical control points where products are transferred, dosed and processed by our pumps, heat exchangers, mixers, valves and other process equipment. To get the very best from your process, all these individual parts should work in harmony. In the chart that follows, those critical fluid handling points are marked with a red  symbol. You may only need to consider performance, dimensions and material specifications of the pump; alternatively you might also need to evaluate the pumping technology, safety issues or compatibility with upstream and downstream systems as well as overall process control matters.





## Metering Pumps

# Bran+Luebbe

*Worldwide leader in metering, analyzing and processing liquids.*

Bran+Luebbe's strong position in international markets is based on the high precision and reliability of their products.

Typical applications in Oil and Gas, Chemical, Food and Beverage, Personal Care, Pharmaceutical, Pulp and Paper, Water Treatment.

Bran+Luebbe offers an unrivalled range of metering pumps for practically every situation in which liquids have to be measured and mixed together.

Turn-key metering and blending systems, the complete solution for higher productivity and product quality.

Bran+Luebbe process pumps feature the safety of seal less diaphragm technology and the reliability of robust, energy efficient modular crankcases.



**> Bran+Luebbe®**

### ProCam

**Flow rate: up to 3 000 l/h**

**Diaphragm Pump Pressure: up to 20 bar**

**Piston Pump Pressure: up to 80 bar**

**Up to 6 pump heads driven by one motor**



### NOVADOS Membrane pump

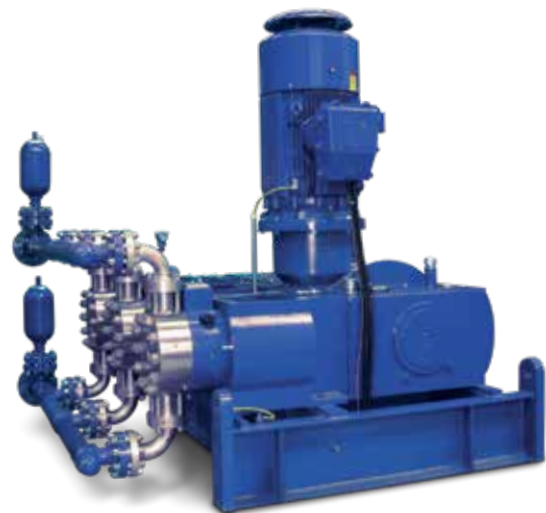
Metering Pump range up to 7 heads with one motor

**Flow rate: up to 22 600 l/h**

**Pressure: up to 1000 bar**



EC 1935/2004



### NOVAPLEX Integral pump

Process Pumps for high pressure, high flow applications

**Flow rate: up to 150 800 l/h**

**Pressure: up to 1 000 bar**





## Hose pumps

# Realax peristaltic hose pumps

*The widest model range in the market.*

Hose pumps, also called peristaltic pumps, are excellent for moving a wide variety of fluids efficiently and with great dosing accuracy. They work just as happily with viscous and abrasive media as they do with shear-sensitive fluids.

### The operating principle

The hose, which can be made from any of a variety of materials, is housed in the pump body. The pump rotor exerts pressure as it rotates on a set of rollers or shoes which, in turn, compress the hose. This forms a vacuum behind the roller or shoe drawing fluid into the



**realax** | hose pumps

hose while the next roller or shoe gently pushes the fluid forward through the hose. Pump wear is concentrated on the hose component which is quick and inexpensive to replace in situ.

**Flow rate: from 0 to 72 m<sup>3</sup>/h**

**Suction lift: up to 9 m**

**Pressure: up to 15 bar**



Rollers

### Shoes or rollers?

**Rollers** mounted on bearings compress the surface of the hose during rotation. This design generates less friction and mechanical stress on the hose and it can support pressures of up to 8 bar.

**Fixed shoes** move across the surface of the hose during compression. Typically this technology is preferred for higher operating pressures (up to 15 bar).



Shoes



PERISTALTIC DOSING PUMP  
SERIES APY



INDUSTRIAL HOSE PUMP  
SERIES ISI



INDUSTRIAL HOSE PUMP  
SERIES IP



INDUSTRIAL HOSE PUMP  
SERIES RP HIGH PRESSURE



## Gear Pumps

### Gear Metering pumps

#### Eclipse from Pulsafeeder

Pulsafeeder's Eclipse Series is a structurally rugged gear metering pump for medium to highly corrosive liquids. Magnetically driven, this seal-less pump gives a smooth, pulse free flow. Available in corrosion-resistant materials (plastic or metal) for chemical processing applications.

**Flow rate: up to 150 LPH**

**Pressure: up to 10 bar**

**Dry Run capabilities**



#### EnviroGear from PSG

By mounting the magnet directly to the motor, the E Series requires only a single fluid chamber, unlike traditional magnetically coupled PD pumps. The rotor & idler gears are supported in three places by the eccentric spindle, eliminating many effects of a cantilevered load.

**Flow rate: up to 45 m<sup>3</sup>/h**

**Pressure: up to 13.8 bar**

**Easily handles high viscosity fluids**



#### TopGear Pumps from Johnson Pump

The sturdy design of the TopGear series gives customers in industrial and hygienic high reliability & prolonged life. With an optimised teeth profile, either thin or high viscosity liquids can be handled. Small clearances mean reduced slip & high volumetric efficiency. Multiple shaft seal types available.

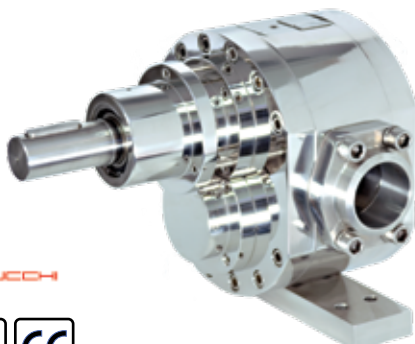
**Flow rate: up to 250 m<sup>3</sup>/h**

**Pressure: up to 30 bar**

**Reduced NPSH and improved priming**



**Johnson Pump**



#### Gear Pumps from Pompe Cucchi

Pompe Cucchi's five ranges of gear pump bring reliability & accuracy (<0.5%) to industrial & hygienic duties. Materials include a variety of metals & plastics. Shafts & gears thermo-chemically treated for surface hardness. Designed for simple inspection & maintenance.

**Flow rate: up to 80 m<sup>3</sup>/h**

**Pressure: up to 20 bar**

**Multiple seal types and build variations**





## Specialist Pumps

Specialised Pumps - AxFlow provide a wide range of pumps products from world leading manufacturers. Each pump is carefully selected to give the best solution - first time.

### Jabsco

*Flexible impeller pumps.*

This rugged flexible impeller pump series offers reliability and versatility together with a smooth, steady product flow. Suitable for viscous liquids as well as delicate fluids and particles in suspension. Hygienic models include stainless steel construction and CIP capability.



- Flow rate: up to 42 m<sup>3</sup>/h
- Pressure: up to 5 bar
- Self-priming with up to 5m lift
- Solids handling capabilities
- Excellent for shear sensitive products



### PIAB



*Vacuum conveyors and equipment.*

Vacuum is used with great advantage in order to convey dry powder products through dedicated pipe systems. PIAB's vacuum conveying systems are built of strong components of high quality. Our objective is to offer solutions that help our customers raise their productivity.

Production of food, pharmaceuticals and chemical products demands the highest possible degree of safety as to hygiene and operation. PIAB's C series of vacuum conveyors has been developed as an answer to the severe requirements of operational safety and hygiene in the food, pharmaceutical and chemical industries.

**Transfer rates of up to 4 000 kg/h with distances of up to 50 m achievable.**

- Compressed Air Drives
- Reliable
- High efficiency
- Atex models available
- Small size and weight
- Low noise
- 5 year Warranty
- No heat emission
- Ease of maintenance



**Applications:** Materials handling, Packaging, Lifting, Vacuum forming, printing.



### Flux

*Barrel, container, vertical immersion pumps.*

Manually portable pumps for IBC, drum & barrel emptying applications. Modular & adaptable with various tube lengths, materials & drive types. Available as an axial flow impeller design for smooth flows on thin liquids

or in a positive displacement type for thicker liquids. Options include flow meters or batching systems, hoses and more.



- Flow rate: up to 14.4 m<sup>3</sup>/h on centrifugal models
- Pressure: up to 8 bar on PD models
- Low shearing for sensitive liquids
- Self-priming and can empty containers.



# AxFlow Systems

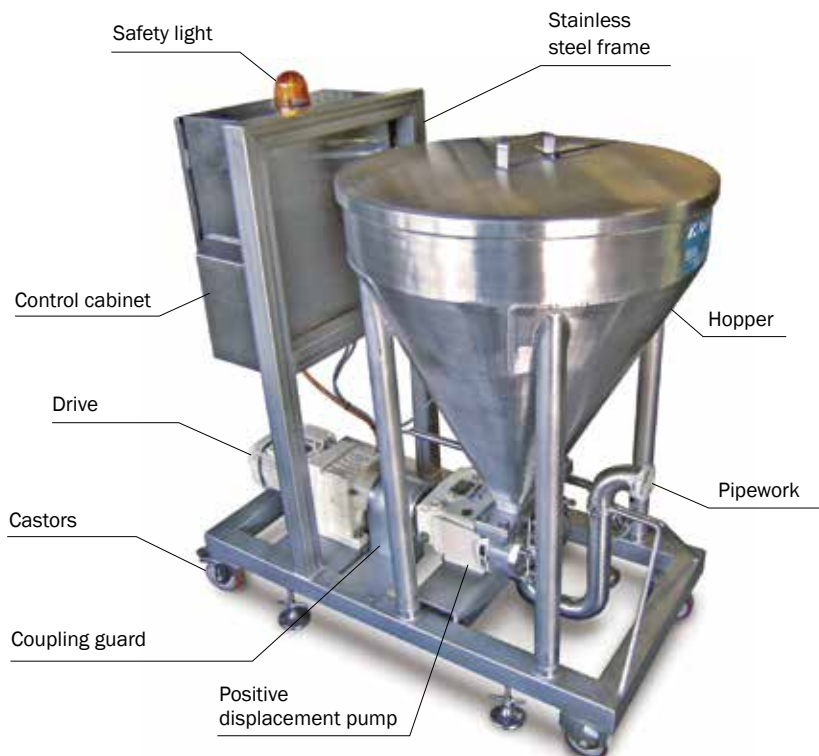
## Small, Medium, Large It's not about size, it's about the perspective!

We like to bring our engineering expertise and services to the table. Our systems range from pump assemblies, compact, skid-based systems that improve dosing performance within larger production processes, through comprehensive and mobile trailer-based mixing and delivery systems.

'System thinking' from AxFlow brings benefits whether you're planning a newbuild or evaluating your existing processes. With our expertise in fluid handling, we can readily identify critical points in your processes where

re-designing or streamlining could make a significant contribution before you commit to a final design. We're one point of contact, one source of documentation, design, installation, engineering and service team.

*Our systems have been installed and are in operation across virtually all areas of industry.*



**Mobile dosing systems** - Example: dosing fruit: *Our mobile, plug-n-play units for dosing various ingredients such as fruits in yoghurts and ice creams are made entirely from food-grade 316 stainless steel. They are designed for easy manipulation within the production process.*



# You get more than just pump repair

Its not just about selling pumps, at AxFlow we are committed to providing ongoing support to make sure our customers always think of AxFlow as their premier business partner for the supply of pumping equipment.



## Technical Advice

Whether it's a 'pump-in-a-box' or the design and manufacture of a complex custom built system, AxFlow specialist engineers provide a complete product and service package. Our team of experienced engineers offer the very best technical advice and support.



## Working Together

We have experienced Engineers located throughout Ireland ready to meet you and discuss your pumping needs. Be it troubleshooting or application expertise we are happy to help. If you are in doubt regarding a pump application we are often able to offer a trial pump to prove the solution.



## Training

Most companies would agree that product and maintenance training can bring many benefits, including improving production. Recognising this need, AxFlow has created a range of in-house and on-site training courses with flexibility to suit individual companies' requirements.



+ products +



= *fluidity*.nonstop

*fluidity.nonstop*<sup>®</sup> is about keeping your processes running. And it's our promise and our commitment to a level of service and a quality of product, performance and expertise that has never been bettered.

By its nature, fluidity.nonstop is never static, that promise is ever-evolving and improving. As needs and demands change, we work to meet those new challenges and try to surpass them. We are Europe's leading source of pumps and pump expertise for the process industry and we intend to maintain that position by working fluidly and ceaselessly to be the best.

For more information, please visit [www.axflow.ie](http://www.axflow.ie)

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