



fluidity.
nonstop

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING



Chemical Process

 **AxFLOW**



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About AxFlow

Part of Axel Johnson AB with sales of over 7 billion euro and 20,000 employees worldwide, the AxFlow Group is one of Europe's largest suppliers of process pumps with offices a presence in 26 European countries and employing nearly 500 people in total.

In the UK AxFlow has over 50 years history operating from 5 locations across the country from which it supplies a large range of process pumps and a comprehensive pump service and repair package.



AxFlow has developed *fluidity.nonstop* a concept through which we provide products and services that encompass all aspects connected with the smooth running of process pumps.

The most comprehensive portfolio of process pumps in the UK

Our chemical process pump range isn't just limited to centrifugal pumps but includes numerous positive displacement pumps making it the largest range in the UK.

WILDEN

Wilden is one of the world's largest manufacturers of air operated double diaphragm pumps. Within Europe, Wilden has a history with AxFlow that goes back more than 40 years, making us the pre-eminent European experts in their products.

WERNERT-PUMPEN

Incorporated in 1920 Wernert Pumpen has always been at the forefront of pump innovation having developed the first plastic centrifugal pump back in 1927. Since then, Wernert have become word leaders in the manufacture of plastic lined pumps.

Gruppo Aturia

The oldest pump manufacturer in Italy tracing its routes back to 1889, Gruppo Aturia manufactures pumps for the utilities, process and oil/gas sectors and has recently absorbed the entire workforce of Caster Pumps.

LEDERLE Hermetic

Established in 1875 Hermetic have been manufacturing canned motors since 1951 and remain the leading European canned pump manufacturer having supplied over 180,000 units around the world.

Waukesha Cherry-Burrell

Now part of SPX, Waukesha Cherry-Burrell has established themselves as world leaders in specialized stainless steel pumps able to handle solids.

BUNGARTZ CENTRIFUGAL PUMPS

Since the 1930s, Bungartz have specialised in the design and manufacturer of problem solving pumps which can self regulate their flow and therefore cope with varying suction conditions and ultra low NPSHa.

realAx | hose pumps

Realax is a major force in the fluid handling industry. Bringing a comprehensive range of Peristaltic pumps to the market for handling an extraordinary range of media and drawing on vast industry and application experience.

Blackmer

Blackmer is the world's leading manufacturer of rotary-vane pumps. Blackmer's unique sliding-vane design is now recognised world-wide for handling industrial process fluids, volatile or organic compounds and viscous liquids.

ALMATEC

First established in 1984, Almatec has become the respected world leader in the field of pneumatic diaphragm pumps due to a combination of consistent innovation and German product quality.

PULSAFEEDER A Unit of IDEX Corporation

Pulsafeeder has been a leader in fluid handling technology since the early 1940's, when they pioneered the hydraulically actuated diaphragm metering pump principle. Following this they have also become experts in magnetically driven gear.

OBL

Established in 1975, OBL has one of the largest metering pump portfolios including plunger, mechanical diaphragm and hydraulic diaphragm types.

MUVEX

Mouvex, was founded in 1906 and has remained an innovator in the manufacture of positive displacement pumps since then. Of particular interest to the chemical process market are their eccentric rotating and vane pumps for problematic applications and delicate liquids.

Experts in pumps associated with the Chemical Process Industry

AxFlow has been supplying pumps to the Chemical Process Sector for over 50 years so we understand that it's about reducing down time, safe liquid handling and lowering life cycle costs. With the largest range in the UK, we believe that we can always offer the most suitable solution for every application.

Acids and Alkalis

Chemical processes involve countless acidic, alkaline and solvent liquids; in response to this diversity we have the ability to offer products with wetted parts constructed from an extremely wide range of chemically resistant materials. This range of materials includes several grades of stainless steel, hastelloy, Monel, titanium and Alloy 20 and plastics such as polypropylene, PVDF, ETFE, PE and PVC. In addition to this, we have several ranges of pumps including mag drive and canned models that offer extremely high levels of containment.

Abrasives and Solids

Abrasive particles and solids are not unknown in chemical process liquids and as a result we have included several wear resistant pump ranges that can handle them. These include our Wernert lined centrifugal pumps, Relax hose pumps, eccentric disc pumps from Mouvex and AOD pumps. Wherever possible we aim to reduce wear at source by handling the solids in a gentle way.

Tanks and Sumps

The AxFlow range includes a number of vertical pumps that can be fitted in or out of tank, many of which can cope with high temperatures or solids. In addition to this, we also have several pump types that can dry prime and can cope with suction lifts of up to 5 metres allowing them to be sited next to tanks and sumps.

Tanker off Loading

AxFlow offer the largest choice of pumps suitable for tanker off loading, these range from self priming centrifugal pumps, vane pumps through AOD to eccentric disc pumps. Many can run dry, can be automatically controlled, will clear the line and be used as part of vapour recovery systems with our range of process compressors.

Dosing

The definition of dosing varies from industry to industry as different applications require different levels of accuracy, reliability and repeatable flow. Consequently, we offer a range of pumps capable of dosing to different levels of flow and accuracy. These range from AOD and peristaltic pumps to precise gear and diaphragm metering pumps.

Extreme Temperature Liquids

Due to the size of our product range, we have many pumps that can handle liquids at temperatures from - 160 °C to 450°C. This includes magnetic drive and canned pumps that offer additional levels of liquid containment.

Refrigerants and Liquid Gases

Handling refrigerants and liquid gases can involve many technical challenges including high vapour pressures and super critical viscosities. At AxFlow we understand these problems and have a range of pumps from vane to centrifugal pumps that have been specifically designed to handle these liquids.

Viscous Liquids

Due to our expertise in the Food and Beverage Sector we are experts in the challenges posed by viscous liquids. We can analyse viscosities in house and then offer pumps capable of transferring liquids with viscosities of over 1 million cP.



Range Summary

	Material	Seal Type	ATEX	Solids	Self Priming	Max		Max bar	Max °C	Page Nos
						m	m ³ /hr			
AOD										
Original/Advanced	Wilden	PP PVDF				80	35	8	107	6
Original/Advanced	Wilden	SS AL DI				200	55	20	176	6
E series	Almatec	PE PTFE				70	18	7	176	7
Chemisor	Almatec	SS				70	26	7	176	7
Centrifugal										
ND	Aturia	SS DX				140	1700	14	250	8
NDM	Aturia	SS DX HST				100	200	10	300	8
NE-NM	Wernert	PE PVDF PTFE PP				140	180	14	165	9
SP	Aturia	PE				47	4000	4.7	90	9
SDM	Aturia	SS				20	27	2	200	10
PCM	Aturia	PP PVDF				45	100	4.5	80	10
NKPF	Wernert	PP PVDF				125	700	12.5	115	11
VKPF	Wernert	PP PVDF				125	650	12.5	115	11
CN-CNF	Hermetic	SS HST DX				250	1600	25	360	12
CAM	Hermetic	SS HST DX				1200	300	12	360	12
CNP	Hermetic	SS HST				290	1000	29	425	13
BZ Horizontal	Bungartz	SS HST DX				140	1600	14	300	13
K/SMKM	Aturia	SS HST DX				370	1500	37	450	14
SDTM	Aturia	SS HST DX TI				180	12	18	300	14
UC Series	Waukesha	SS				150	650	15	200	15
Turbine & Eccentric Disc										
PTM	Aturia	PP PVDF				60	15	6	80	16
STM	Aturia	SS HST DX TI				90	10	9	300	16
C & SLS	Mouvex	SS DI				170	38	17	80	17
Vane										
NP-SNP-HXL	Blackmer	SS CI				140	250	14	260	18
P Series	Mouvex	SS CI				120	100	12	250	18
SVM	Aturia	SS				130	1.8	13	300	19
Rotary Lobe										
Universal II	Waukesha	SS				350	100	35	148	19
Peristaltic										
APY	Realax	SI SOL NR HYP				20	90	2	100	20
IP	Realax	TYG NOR EPDM NBR				80	25	8	120	21
ISI	Realax	TYG NOR EPDM NBR				80	1.5	8	120	21
RP	Realax	TYG NOR EPDM NBR				150	50	15	120	21
Metering										
Mech Diaphragm	OBL	SS PP PVDF PTFE				120	2	12	45	22
Plunger	OBL	SS PVC PVDF				4000	5.5	400	280	22
Hydraulic Diaphragm	OBL	SS PVC PVDF PTFE				1400	3.7	140	100	23
PULSA	Pulsafeeder	SS Alloy C Monel HST				3450	6.6	345	350	24
PULSA pro 900	Pulsafeeder	TI PVC Viton PTFE				3010	62	301	370	24
PULSAR	Pulsafeeder	CSM PFA				2200	0.4	220	110	25
Gear										
Isochem & Eco	Pulsafeeder	SS HST				170	13.6	17	232	26
Eclipse	Pulsafeeder	PTFE PVDF				138	7.5	13.8	93	27
Envirogear	Maag	SS CS DI				138	45.4	13.8	260	27

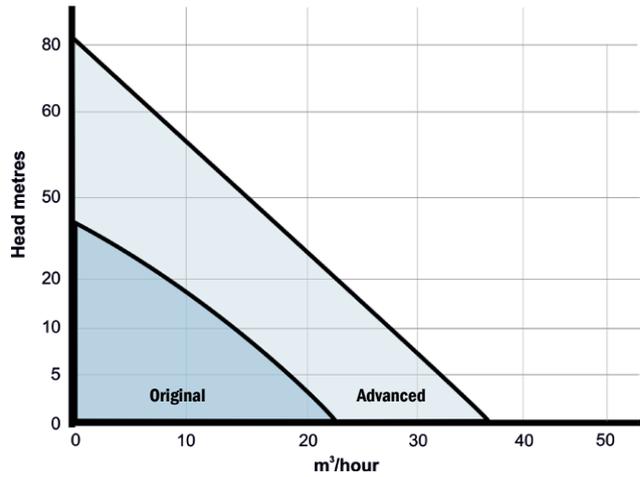
SS	Stainless Steel	HC	Hi Chrome Steel	PP	Polypropylene	SI	Silicone	HYP	Hypalon
DX	Duplex Stainless Steel	TI	Titanium	PVDF	Polyvinylidene Fluoride	TYG	Tygon	NOR	Norprene
HST	Hastelloy	DI	Ductile Iron	PTFE	Polytetrafluoroethylene	SOL	Solva	NBR	Nitrile
CI	Cast Iron					NR	NR	NR	Natural rubber
CS	Carbon Steel								

Please note all technical information is approximate, please consult AxFlow GB before specifying any product.

Original/Advanced Plastic

Wilden's Original Series AODD pumps are designed for utilitarian applications that require a robust construction. The Advanced Series AODD pumps are constructed with bolts to give a better diaphragm seal to cope with varying discharge pressures. They both utilise ProFlo Shift which automatically optimizes air consumption and eliminates overcharging of the air chamber.

- PP
- PVDF
- PFA
- Buna
- EPDM
- Viton
- Neoprene
- Santoprene
- Hytrel
- Polyu'thane
- PTFE



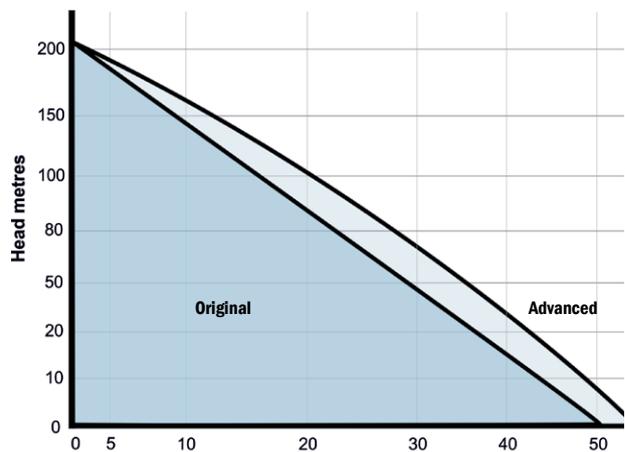
- Reliable and robust.
- Dry priming and dry running.
- Single-point exhaust option.
- Can be dead headed without damage.
- Will deliver variable flow and pressure.
- Sizes 1/4" to 3".



Original/Advanced Metal

Wilden's Original Series AODD pumps are designed for utilitarian applications that require a robust construction. The Advanced Series AODD pumps are constructed with bolts to give a better diaphragm seal to cope with varying discharge pressures. They both utilise ProFlo which automatically optimizes air consumption and eliminates overcharging of the air chamber.

- St Steel
- Aluminium
- Cast Iron
- Buna
- EPDM
- Viton
- Neoprene
- Santoprene
- Hytrel
- Polyu'thane
- PTFE



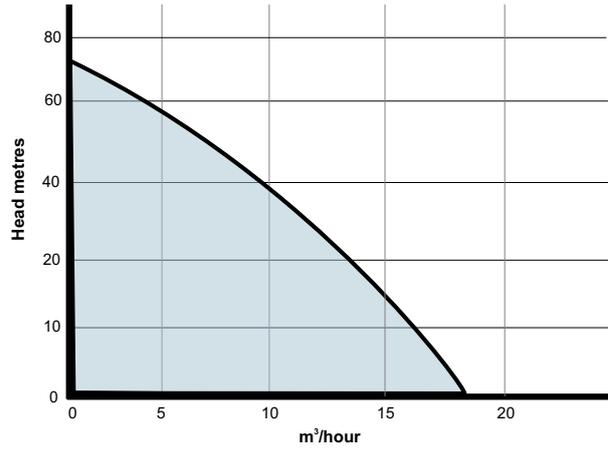
- High discharge pressures.
- Reliable and very robust.
- Improved product containment.
- Dry priming and dry running.
- Single-point exhaust option.
- Can be dead headed without damage.
- Will deliver variable flow and pressure.
- Sizes 1/2" to 4".



E Series

The E-Series represents the latest generation of plastic air-operated AOD pumps. They are machined from solid blocks of plastic and all housing bolts are tightened against a diaphragm ring allowing for an extremely secure unit. They are ATEX rated and their bodies can be made from PE or PTFE.

- PE
- PTFE
- EPDM
- PTFE
- NBR



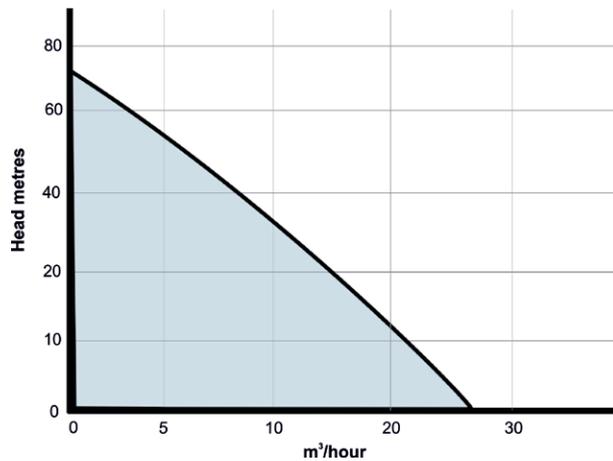
- Reliable and robust.
- Dry priming and dry running.
- High levels of liquid containment.
- Extremely resistant to aggressive chemicals.
- Will deliver variable flow and pressure.
- Sizes 1/2" to 3".
- NPT, DIN or ANSI flange connections.



Chemisor

These metal pneumatic diaphragm pumps feature soft contours, smooth flow channels and no dead spaces. CHEMICOR pumps contain a central block made of PA or conductive PE.

- St Steel
- EPDM
- PTFE



- Reliable and robust.
- Dry priming and dry running.
- Can be dead headed without damage.
- Will deliver variable flow and pressure.
- NPT or BSP connections.
- Sizes 3/4" to 2".



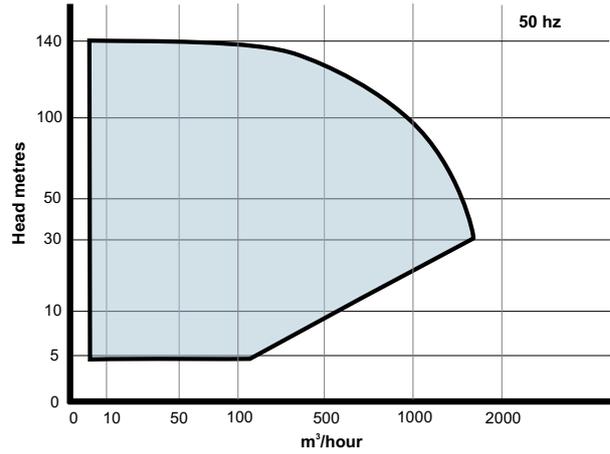


Centrifugal

ND

High quality ISO 2858 - ISO 5199 process pumps refined over many years service life to offer an efficient and balanced pump design. Most components are stocked resulting in short lead times.

St Steel
Dup st st



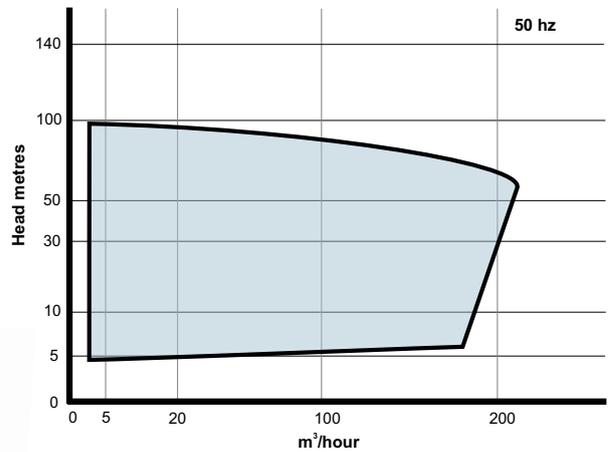
- Dynamically balanced impellers.
- Oil lubricated ball bearings.
- Back pull out design.
- Labyrinth seals on bearing supports to negate external contamination.
- Single, double and flushed seals.
- Optional Refrigerated seal chamber.
- SS with DX or Hastelloy options.



NDM

High quality magnetically driven ISO 2858 pumps. NDM pumps have hydraulically and hydro-statically balanced pump chambers and Hastelloy rear housings, Samarium Cobalt magnets and Silicon Carbide bearings as standard. They are available as either a long or close coupled construction.

St Steel
Hastelloy
Dup St St
SiC



- No mechanical seals to leak or service.
- Oil lubricated ball bearings.
- Incoloy or Hastelloy constructions available.
- Back pull out design with screw-on impeller.
- Available with self cleaning filters.



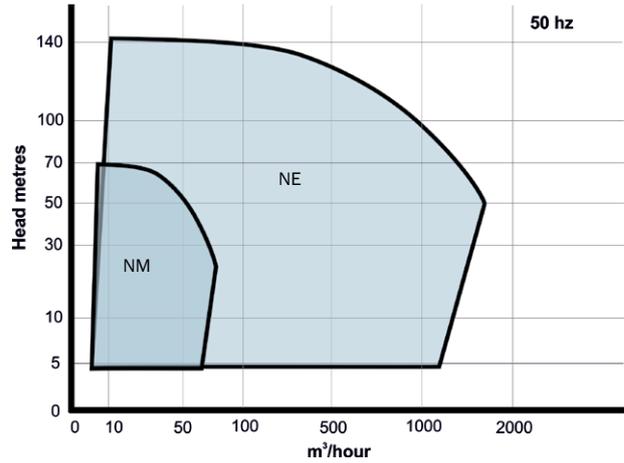


Centrifugal

NE - NM

ISO 2858 plastic lined pumps designed to convey aggressive, solid laden and toxic liquids. They are designed around a solid pump casing which results in a particularly robust construction. The mechanically sealed pumps are also able to handle abrasive liquids when manufactured in PE.

PTFE
PE
PP
PVDF



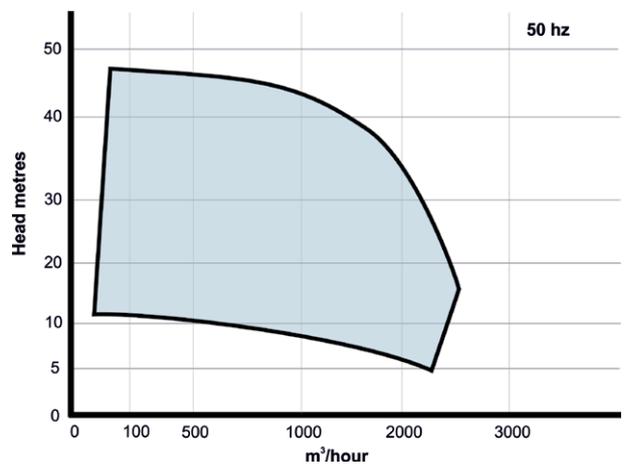
- Thick-Walled casing and liners.
- Fully metal clad enclosure.
- Sealed for life roller bearings.
- Semi-open or closed impeller.
- PE - PVDF - PP - PTFE.
- Single, double, flushed mechanical seals and mag drive.



SP

Polyethylene lined pumps designed to convey aggressive, solid laden and toxic liquids for flows up to 2,500 m³/hr. SP pumps are fitted with closed impellers specially designed for high abrasion applications.

PE



- Thick-walled and interchangeable parts.
- Grease or oil lubricated bearings.
- Single, bellows, or double acting mechanical seals.
- True slurry design impellers.



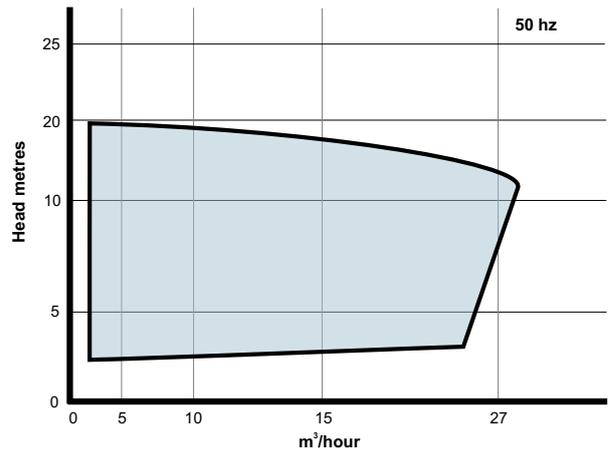


Centrifugal

SDM

Compact, sturdy and simple centrifugal transfer pumps made from 316 stainless steel designed to handle a wide range of acids, solvents, alkalis and refrigerants. Fitted with Samarium Cobalt magnets, SDM pumps can be configured to handle liquids up to 200°C.

- St Steel
- PTFE
- Carbon
- EPDM
- Viton
- FEP



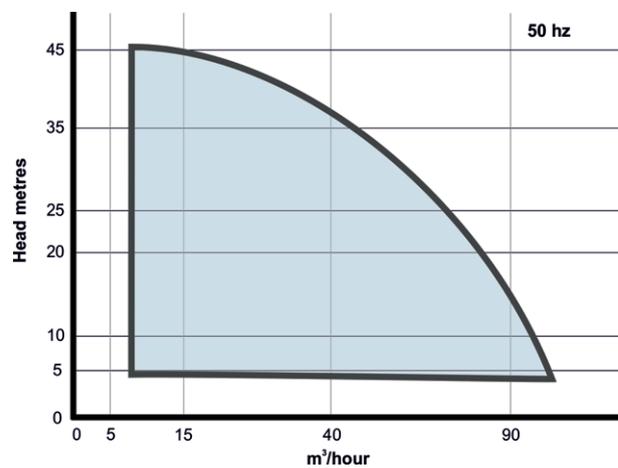
- No mechanical seals to leak or service.
- BSP, NPT, PN or ANSI connections.
- Can be mounted vertically.
- Vacuum welded internal magnets available.
- Can be constructed to suit off shore applications.



PCM

Robust mag drive pumps machined from solid blocks of plastic. Being magnetically driven, PCM pumps have no drive seals to leak and their solid construction offers an alternative to lined pumps.

- PP
- PVDF
- PTFE
- Carbon
- EPDM
- Viton
- FEP



- No mechanical seals to leak or service.
- Chemically resistant.
- PN10 or ANSI 150.
- Can be mounted vertically.
- PP - PVDF.



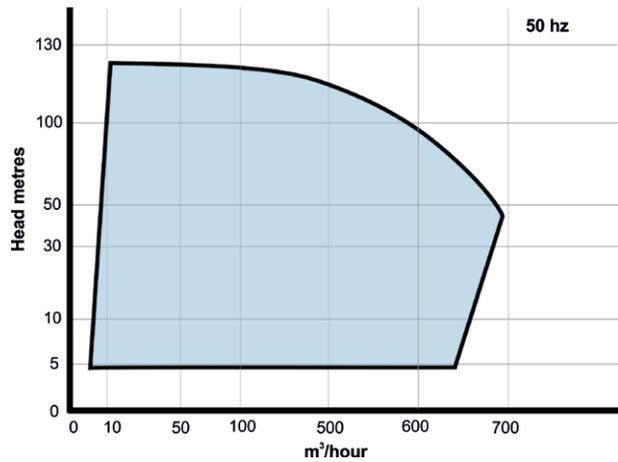


Centrifugal

NKPF

Seal-less side tank mounted vertical plastic lined pumps for aggressive and solid laden liquids. NKPF pumps offer the same stability as a metal pump due to the outer metallic construction. Having no bearing or shaft seal makes them suitable for liquids with a high suspended solids content.

PP
PVDF



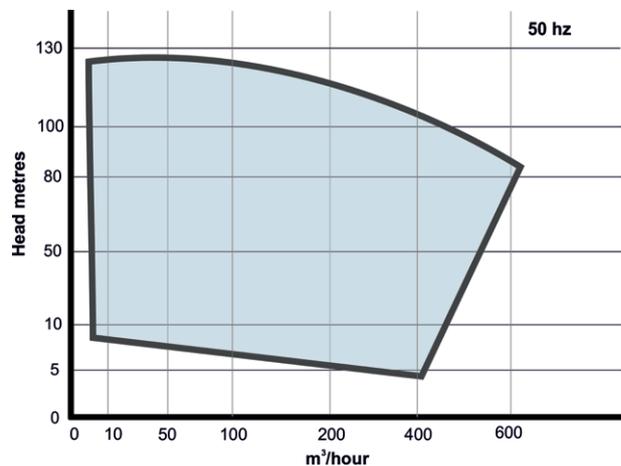
- Thick-Walled metallic casing parts.
- Sealed for life roller bearings.
- PE - PVDF - PP - PTFE.
- Can run dry for short periods.
- True cantilever design with no bearings in the liquid.



VKPF - VKKF

Low maintenance, heavy duty vertical plastic lined sump pumps designed to convey aggressive, solid laden liquids. They have no seals to leak or maintain and no bearings in the liquid.

PP
PVDF



- Thick-Walled casing parts.
- Bearings positioned above mounting plate.
- Semi open impellers.
- Sealed for life roller bearings.
- PVDF - PP.
- Can run dry for short periods.
- True cantilever design with no bearings in the liquid.



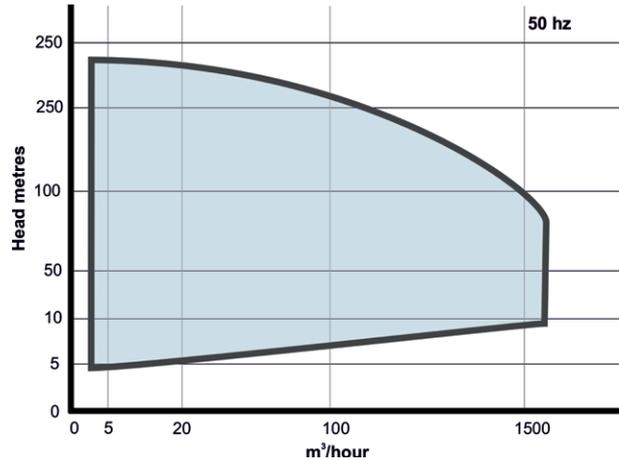


Centrifugal

CN-CNF-CNK

Canned pumps to ISO 2858 for liquids that require high containment. Primary containment is provided by the stator can with secondary containment provided by the stator housing and terminal box. Having only one hydro-dynamically balanced rotor, experience has shown that operation periods well in excess of 5 years without maintenance are considered normal.

- Cast Iron
- Steel
- St Steel
- Hastelloy
- Dup St St



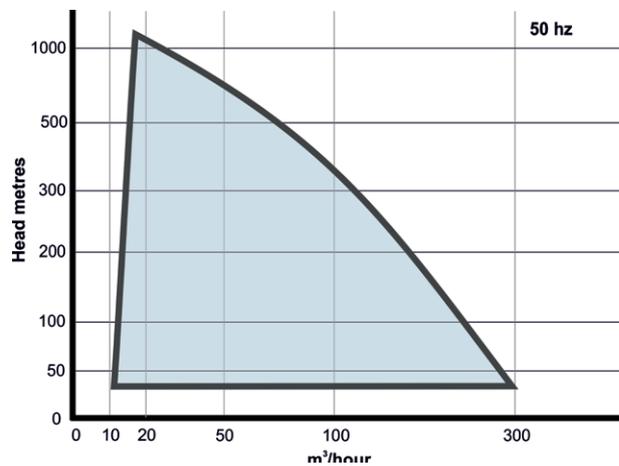
- Double containment of liquid.
- No mechanical seals to leak or service.
- 180 month mean time before failure.
- Reduced footprint and easy installation.
- ATEX certified up to T6.
- CNF Axillary Impeller for high vapour pressures.
- CNK (cooled motor) design.
- System pressures up to 1200 bar



CAM

The CAM range of canned pumps utilise are multi-stage, canned pumps that provide a high containment solution to low flow high head applications.

- Cast Iron
- Steel
- St Steel
- Hastelloy
- Dup St St



- Double containment of liquid.
- No mechanical seals to leak or service.
- 180 month mean time before failure.
- Reduced footprint.
- Easy installation.
- ATEX certified up to T6.



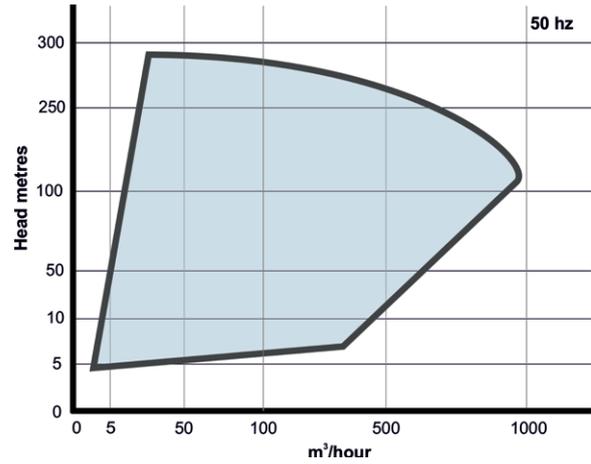
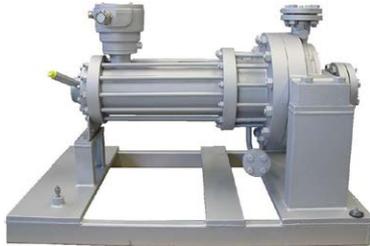


Centrifugal

CNP

The CNP range of canned pumps utilise API610 hydraulics, combined with canned pump technology to provide a fully compliant API685 seal-less pump. As they provide high levels of containment and an integral pump/motor construction, they offer a trouble free API solution without the complex seal systems.

- Steel
- St Steel
- Hastelloy
- Dup St St



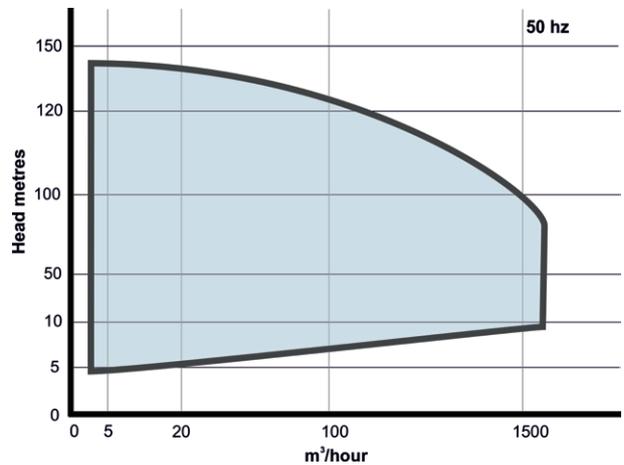
- Double containment of liquid.
- Extremely long service life.
- Reduced footprint.
- Simplified installation.
- ATEX certified up to T6.
- Reduced instrumentation.



Bungartz Pumps

Process pumps designed around a unique hydrodynamic seal for ultra low and varying NPSH applications. Bungartz pumps are available in both horizontal and vertical configurations and are adaptable to the most difficult of applications including boiling liquids and can save significantly on the overall system build cost.

- St Steel
- Hastelloy
- Dup St St
- Cast Iron



- Dry running seal.
- Leak free.
- Will handle solids.
- Suitable for boiling liquids.
- Removes the need for level controls in ATEX applications.
- Available with magnetic drives.



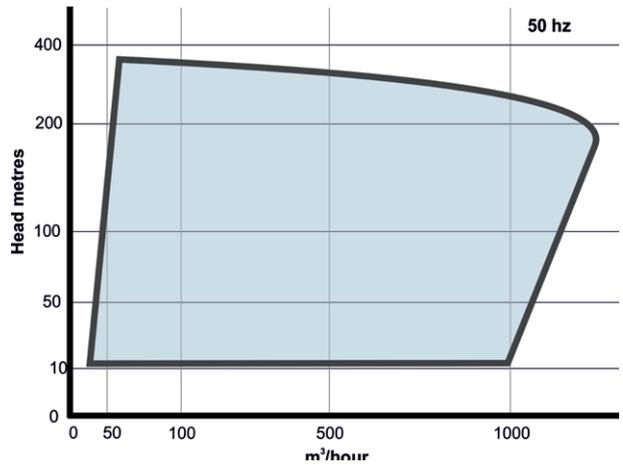


Centrifugal

K/SMKM

A range of split case overhung process pumps to API 610 (OH2). SMKM are the single stage version while KSMKM pumps can be constructed as two stage units.

- Carb Steel
- St Steel
- Hastelloy
- Dup St St
- SiC



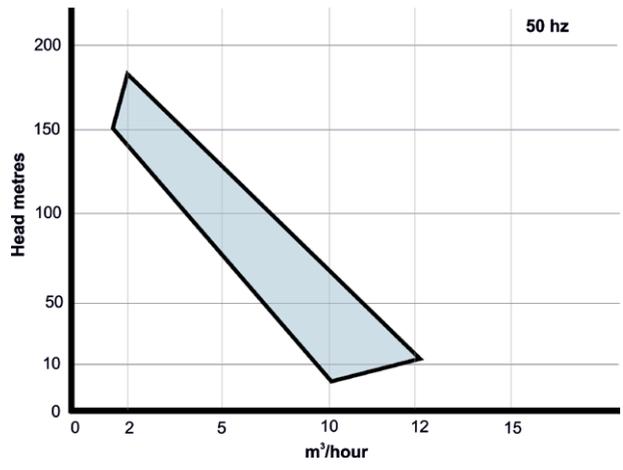
- Statically and dynamically balanced impellers.
- Compartmentalized approach to axial thrust.
- Double angular contact ball bearings.
- Single, double and balanced seals.

- Mechanical Seal
- Magnetic Drive
- Corrosive Liquids
- ATEX
- Maximum 450 °C

SDTM

SDTM magnetic drive process pumps have been especially designed for liquefied gases such as NH₃, CO₂, LPG and butane. They particularly suit refrigeration applications due to their ability to cope with thin liquids and the containment provided by the magnetic coupling.

- St Steel
- Hastelloy
- Dup St St
- Titanium
- PTFE
- Carbon
- EPDM
- Viton
- FEP



- Statically and dynamically balanced impellers.
- Compartmentalized approach to axial thrust.
- Double angular contact ball bearings.
- Single, double and balanced seals.

- Magnetic Drive
- Corrosive Liquids
- Refrigerants
- Surface Ra 1.3 µm
- ATEX
- Maximum 300 °C

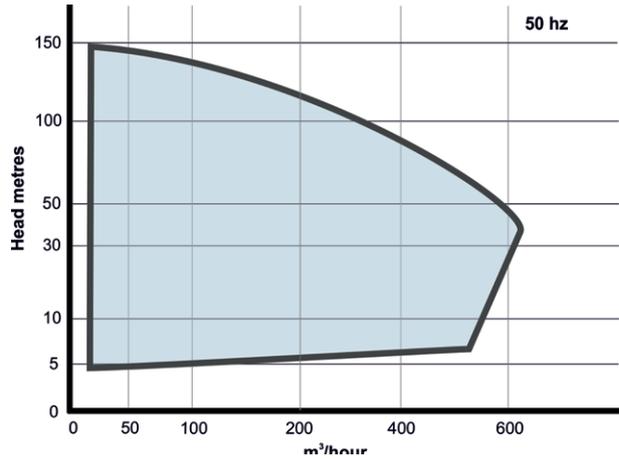


Centrifugal

UC Series

The UC Series is a modular, high specification hygienic product range with a variety of alternative construction types. Based around the patented SPX spiral shaped rear flange which results in reduced turbulence leading to gentle product handling and increased efficiency.

- St Steel
- EPDM
- Viton
- PTFE



- Fully CIP compatible.
- Tri-Clamp, I-Line, Bevel Seat connections.
- Flow directed to seal to assure sanitation.
- Seal spring external to liquid product.
- Constructed for easy maintenance.
- Designed to offer minimal turbulence and vibration.
- Interchangeable single, balanced and flushed seals.



UCi with integral inducer

- 50 to 70% reduced NPSH requirement.
- Operates with fluids close to boiling.
- Extends the operational viscosity range of the pump to 500 cP.
- Can handle gas laden liquids.



UCh high pressure construction

- For system pressures up to 60 bar.
- Higher external torsional loads.



UC Multi-stage

- Can deliver differential heads up to 150m.
- CIP friendly.
- Long coupled for easy maintenance.



UCs self priming construction using a unique eccentric air screw design.

- Reduced noise levels.
- 3A and EHEDG compliant.
- Can handle particulates.



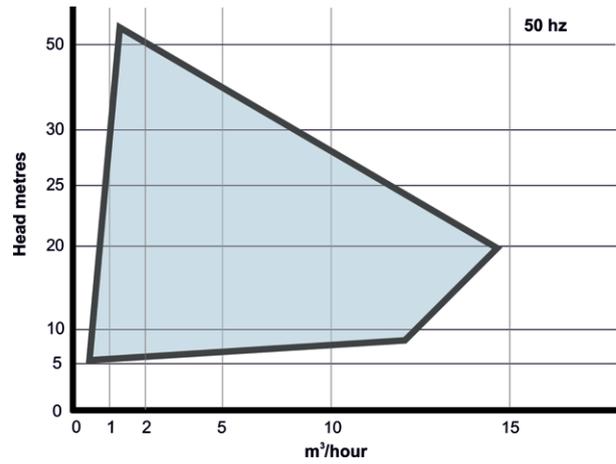
UCa aseptic construction

- Seals can be sterile flushed.
- Hygienic fittings as standard.
- Can be used with barrier media.

PTM

Magnetically driven regenerative turbine pumps for low flow - high head duties. PTM pumps offer an extremely cost effective alternative to multi-stage pumps and are available with self priming chambers. Being magnetically driven the liquid is contained within a seal-less chamber that cannot leak.

PP
PVDF
PTFE
Carbon
EPDM
Viton
FEP



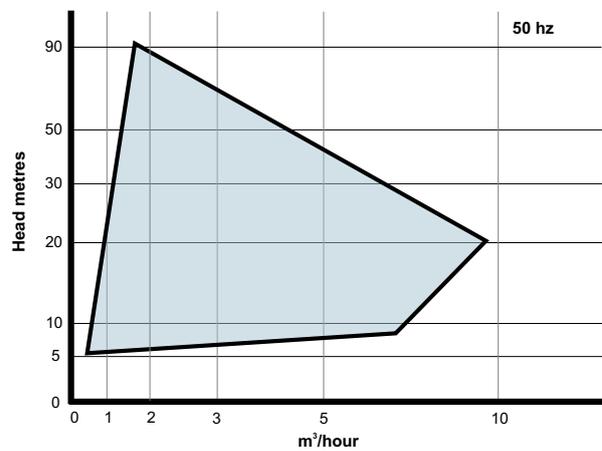
- No mechanical seals to leak or service.
- Chemically resistant.
- Threaded or flanged.
- Can be mounted vertically.
- Will pump 20% entrained gases.
- PP - PVDF.



STM

High specification regenerative turbine pumps for high heads/ low flow applications. Because STM pumps are machined from solid metal, they offer an extremely wide range of design options and construction materials.

St Steel
Hastelloy
Dup St St
Titanium
PTFE
Carbon
EPDM
Viton
FEP



- No mechanical seals to leak or service.
- High system pressure capability up to 200 bar.
- Will pump up to 20% entrained gasses.
- Can be vertically mounted.
- Polished internal surfaces available.
- Threaded, Tri-Clamp, PN or ANSI flanges.





Eccentric Disc

C & SLS Series

Shear sensitive materials are safe when pumped with the C-Series. The unique eccentric disc concept provides gentle handling and high-volume efficiency. The C-Series is particularly suited to problematic sealing applications. Consistent performance over time is achieved due to an automatic disc/cylinder adjustment.

- St Steel
- Ductile iron
- Viton
- FEP



- Seal-less
- Self priming.
- CIP Capability.
- High product recovery.
- Pumped product constantly renewed.
- Output not affected by viscosity variation
- Low linear speed.



Your production process is marked by critical control points where different fluids are pumped, mixed, injected and filtered. Too often the role these points play in process performance is underestimated.

To get the very best from your process, all the individual parts should work in harmony. 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.

It's so much easier when you can interact with a fluid handling specialist.

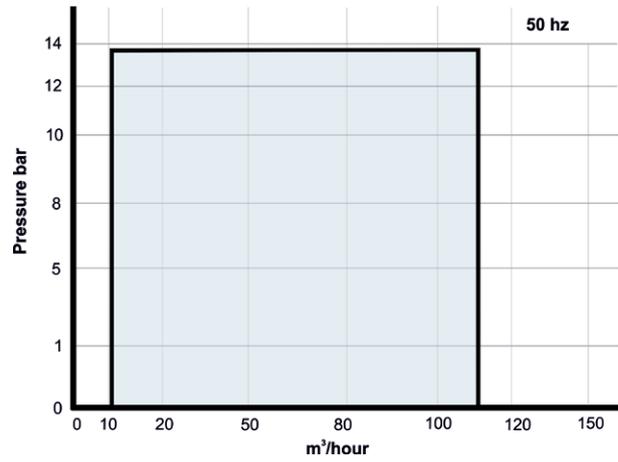


Vane

NP - SNP - HXL Series

Blackmer NP pumps are specifically designed to offer maximum versatility for handling a wide variety of liquids. The NP pump is ideal for applications that have varying fluid viscosities and temperatures. NP pumps can be fitted with double mechanical seals. SNP denotes stainless steel and HXL high flows.

- Cast Iron
- St Steel
- Duravane
- EC Laminate
- Bronze
- Viton
- PTFE



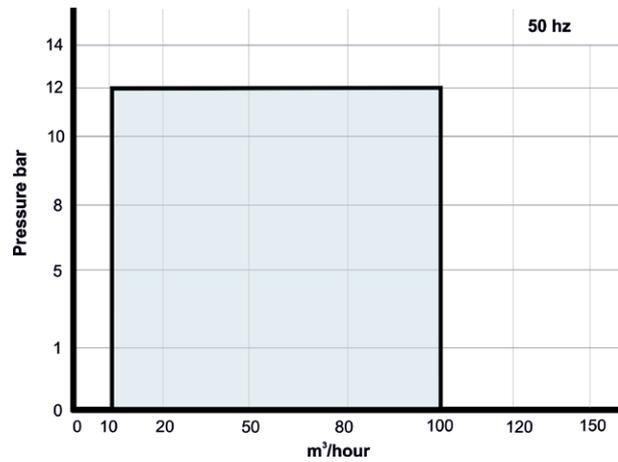
- Jacketed pump heads available.
- Excellent self-priming and dry run capabilities.
- Symmetrical bearing support assures even loading and wear for long life.
- Adjustable relief valve protects pump against excessive pressures.
- Vanes can be replaced without removing the pump from the piping system.

- Mechanical Seal
- Self Priming
- ATEX
- Viscous 22,000 cP
- Refrigerants
- Maximum 260 °C

P Series

The MouveX P Series vane pump cover a large range of industrial applications, from thin fluids to very viscous products, whether they are non-lubricating, abrasive or corrosive.

- St Steel
- Cast Iron
- Viton
- Nitrile



- CIP and SIP compatible.
- Performance remains constant over time.
- Dry-run capability.
- Can be supplied with built-in heating or cooling jackets.

- Mechanical Seal
- Self Priming
- ATEX
- Viscous 22,000 cP
- Maximum 250 °C

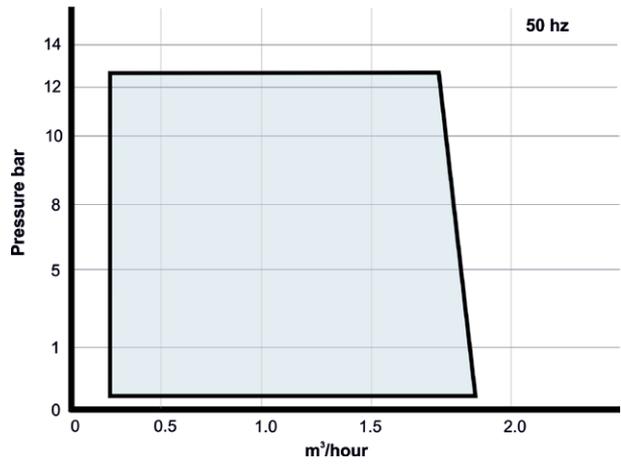


Vane

SVM

Robust, high specification mag drive rotary vane pumps designed with a flow path which produces no pulsation. SVM pumps can be configured to a range of different applications and will pump fluids up to 300 °C.

- St Steel
- Carbon
- SiC
- EPDM
- Viton



- High heads - low flows.
- Viscous or thin liquids.
- Available with metallized graphite.
- Dry running capability.
- Threaded, PN, Tri-Clamp or ANSI flanges.
- SS plus options of Duplex and Hastelloy.

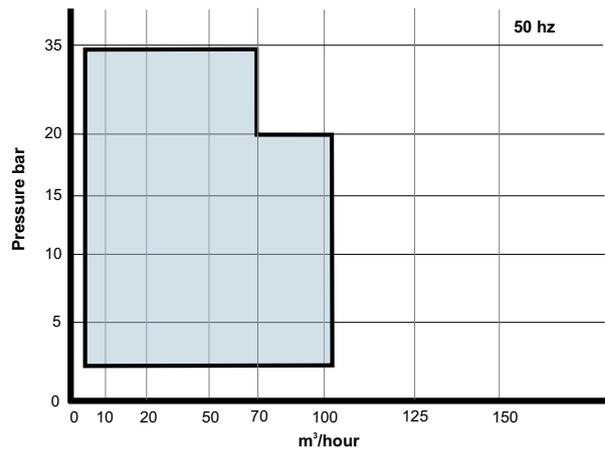


Rotary Piston

Universal

Built around Waukesha arc shaped rotor wings resulting in a long sealing path, the Universal 2 Series offers the same low pump slippage, easy maintenance, low service life and the ability to pump liquids with both high and low viscosity as the Universal 1 but at higher flows and pressures.

- St Steel
- EPDM
- Viton
- Silicone
- PTFE
- FEP
- Buna



- Bi-directional flow.
- Gentle pumping action.
- Free draining pump housing.
- Dry running with flushed seal.
- Can pump large solids.
- Can pump a wide range of viscosities.



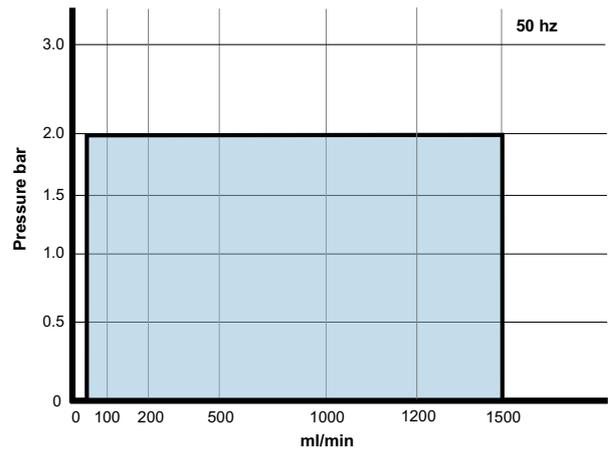


Peristaltic

APY

APY industrial tube pumps are ideal for lower pressures and low flow applications, providing accurate dosing quantities up to 90 l/h and up to 2 bar pressure. The three roller design cuts vibration and tube replacement is quick and easy.

- Silicone
- Norprene
- Tygon
- Solva



- Electronic equipment for batch applications.
- Plastic baseplate with leakage container.
- Reversible rotation.
- High dosing accuracy.
- Corrosion resistant.
- Sanitary tubes to FDA.



Tubes and Hoses



SILICONE widely used for food and laboratory applications chemically resistant with high temperature capabilities.



NORPRENE is an excellent all round tubing with very good chemical resistance, and low absorption rates.



SOLVA food grade PVC tubing compatible with oils, fatty products, some hydrocarbons and good for viscous products.



NORPRENE A60G offers an extremely long life time, good chemical compatibility and 120°C maximum temperature.



NR abrasion resistant and mechanical strength. Generally resistant to diluted acids, alcohols and alkaline products.



NORPRENE A60F is the food grade version of A60G resistant to CIP.



HYPALON has excellent resistance, to oxidizing products such as nitric, chornic, and hydrochloric acid as well as oxygen generating liquids such as hydrogen peroxide.



EPDM has good chemical resistance, specially used for concentrated acids, ketones and alcohols.



TYGON is plasticizer free with low absorption/adsorption properties, this minimizes the risk of fluid alteration making it particularly suitable for pharmaceutical and medical applications.



NBR shows excellence compression and abrasion resistance although it's temperature and chemical resistance capabilities are limited.



NBR-A is the FDA approved NBR material.

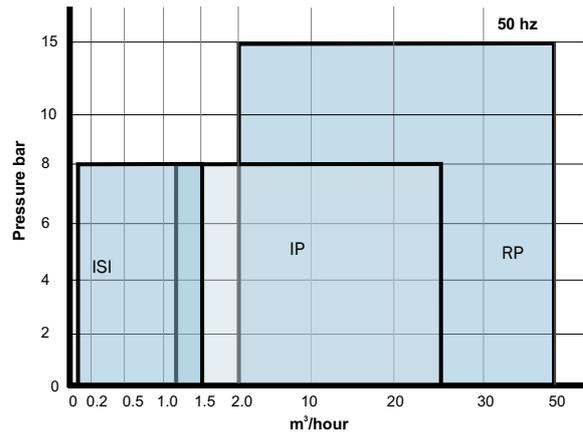


Peristaltic

ISI - IP - RP

A range of industrial high quality hose pumps that utilise either rollers (ISI, IP) or shoes (RP). They can be fitted with inverter driven motors and have sturdy reinforced hoses.

- NR
- NBR
- EPDM
- Silicone
- Norprene
- HYPALON



- Suction lift to 9 metres.
- Reversible rotation.
- Hose leakage detector available.
- Can be accompanied with pulsation dampeners.
- Electronic equipment for batch.
- FDA materials available.
- Available with Tri-clamp, DIN 11851, NPT, PP, PVDF connections.



Shoes or Rollers



Rollers

Mounted on bearings, rollers compress the surface of the hose during rotation. This design generates less friction and can support pressures up to 8 bar.



Shoes

Fixed shoes are used on RP models which move across the surface of the hose during compression. Shoes spread the pressure over a greater area and make a firmer seal than rollers. Typically they are preferred for higher operating pressures (up to 15 bar) and more viscous liquids.

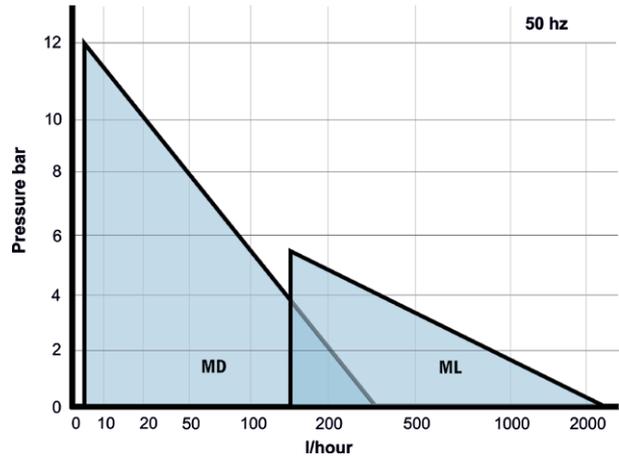


Metering

OBL Mechanical Diaphragm

Mechanically actuated diaphragms which offer a chemically resistant, seal-less option for low pressure applications. The OBL's unique (patented) mechanical diaphragm design ensures linearity between flow rate and percentage of stroke. The flow rate is virtually unaffected by the working pressure variations.

- St Steel
- PP
- PVC
- PVDF
- PTFE
- Viton



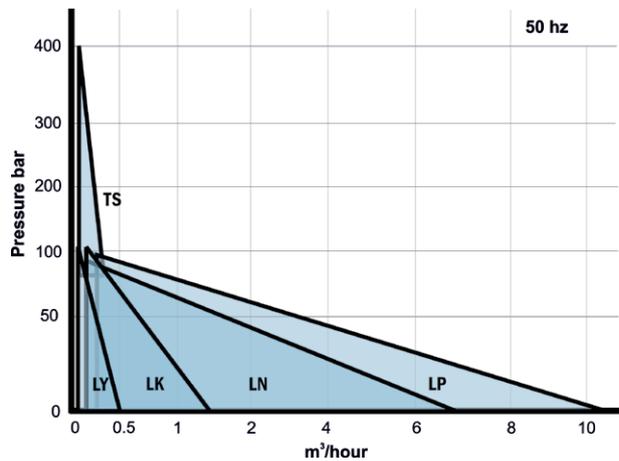
- Simple and robust spring return plunger pump.
- Low maintenance costs due to small number of components.
- Suited to aggressive fluids.
- Single and multiple head arrangements possible.
- Spring or positive return.
- Available with a stroke length actuator.



OBL Plunger

A comprehensive range of plunger metering pumps with ceramic plungers that comply with API 675 for high pressure applications. They can be used singularly or in multiple head units and feature a simple linear adjustment dial.

- St Steel
- PVC
- PVDF
- Viton



- Simple and robust plunger metering pump.
- Low maintenance costs due to small number of components.
- Available with a stroke length actuator.
- Single and multiple head arrangements possible.



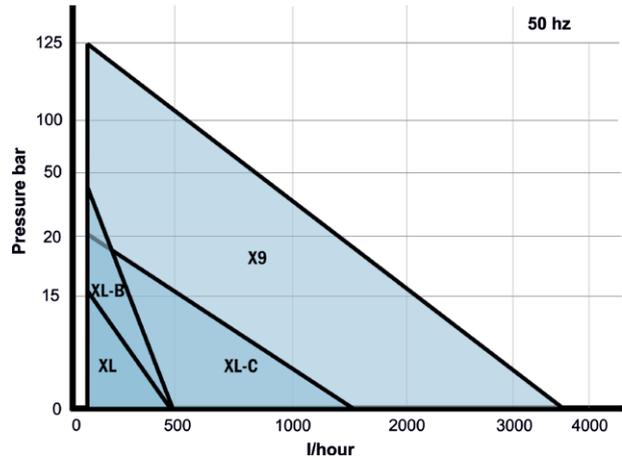


Metering

OBL Hydraulic Diaphragm

Hydraulically actuated diaphragm pumps which offer the product containment of mechanical diaphragm units and the high pressure capabilities of plunger type pumps. They feature built-in relief valves, air purge valves and mechanically actuated replenishing diaphragms that guarantee a constant hydraulic balance.

- St Steel
- PVC
- PVDF
- PTFE
- Viton



- Longer diaphragm life.
- Suited to aggressive fluids.
- Single and multiple head arrangements possible.
- Available with a range of actuators.
- Comply with API 675.
- Available with a double diaphragm construction.



Using the right pumps for your process? Or just the ones you've always used?

Pumps matter to the performance of your processes and choosing the right ones is critical - to productivity, profitability, reliability and to safety.

On the face of it, making the right choice should be easy - the necessary dimensions, output, material and safety standards are all given. What is harder to determine is the optimal choice of fluid handling technology.



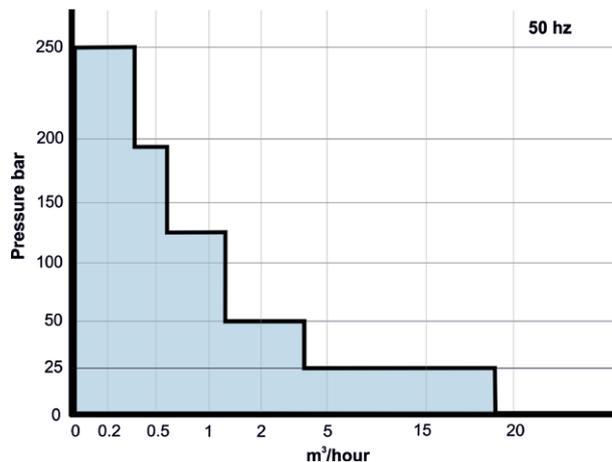
Metering

Pulsa

Pulsa Series are high specification metering pumps available with three different diaphragms designs:

- Flat** with dish plates to prevent over deflection,
- Hydratube** for high viscosity liquids and
- Hydracone** for self priming applications.

- St Steel
- Alloy C
- Monel
- PVC
- PTFE
- Viton
- PTFE
- CSM
- PFA



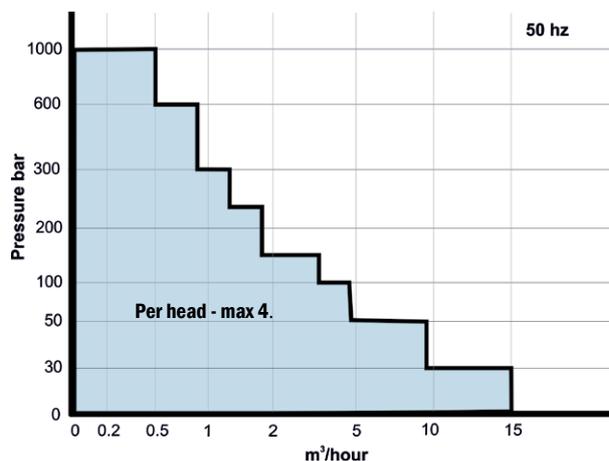
- Three component hydraulic valves.
- Hydraulically balanced diaphragms - no wear point.
- 1 yr warranty on wear parts, 5 on gear train
- Manual adjustment mechanism to $\pm 1\%$ accuracy.
- A wide range of control signal options.



PulsaPro 900

The PulsaPro 900 is a more rugged and large scale range for high flows and pressures. One of the most innovative features of the PulsaPro 900 is the unique gearbox design which allows for up to four heads.

- St Steel
- Alloy 20
- Hastelloy
- PTFE
- PTFE



- Vertical or horizontally mounted motors.
- Hydraulically balanced diaphragms - no wear point.
- 1 yr warranty on wear parts, 5 on gear train
- Manual adjustment mechanism to $\pm 0.5\%$ accuracy.
- A wide range of control signal options.
- Dual scale % and flow units.
- API 675.





Metering

Pulsar

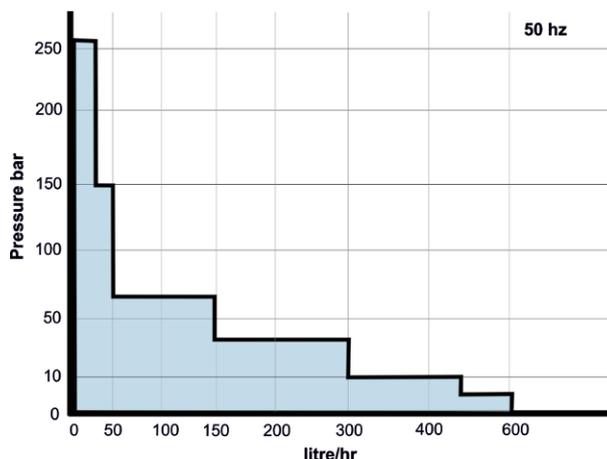
Pulsar Pumps are high specification metering pumps available with three different designs:

Pulsar for flows up to 450 l/min and 250 bar.

Hypopump for Sodium Hypchloride 420 l/min and 10.4 bar.

Shadow for flows up to 640 l/min and 21 bar.

- St Steel
- Alloy 20
- Hastelloy
- Titanium
- Monel
- PVC
- PTFE



- Balanced diaphragm to give prolonged life.
- 4 bolt tie bar provides rigidity to the 3 component check valves and eases their quick removal.
- Diagnostics give hydraulic operation, system over-pressure, diaphragm integrity and hydraulic oil fill level.
- 1 yr warranty on wear parts, 5 on gear train.



Mean Time Between Failure? Life Cycle Cost? Capital cost? Are you asking the right questions?

It's not just about acceptable expected life of equipment, seals, filters and other components, it's about looking at those factors in the context of your process. How easy is it to schedule maintenance within your plant? What are the cost-implications of down-time and bottlenecks? How quickly and readily can you get replacement parts and consumables? How frequently, and how rapidly do you need to change lines? How valuable is residual product in your lines and how easily can you extract it?

Looking at the process as a whole, and the role of your pumps and mixers within that process, enables you to look at the real cost of ownership.

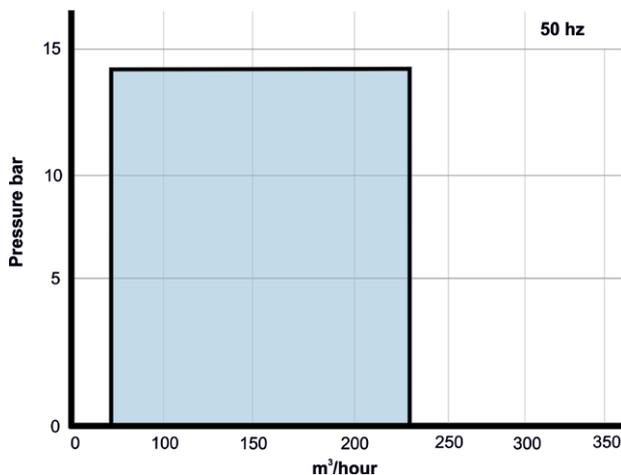
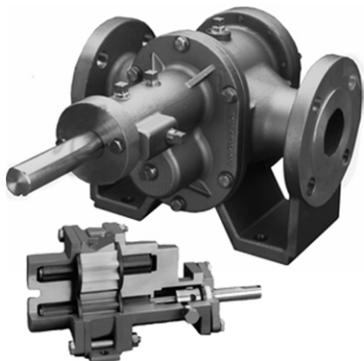


Gear

Eco Chemgear

External gear pumps, available in various materials and designed for the handling of low and high viscosity liquids – even in continuous or cyclic operations. They are self priming and bi-directional and can be fitted with internal or external mechanical seals or packing.

- St Steel
- Alloy 20
- Hastelloy
- PEEK
- PTFE



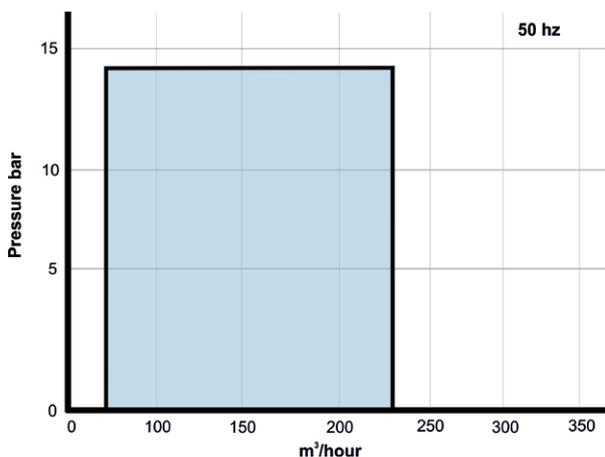
- Bi-directional.
- Lubricated by process fluid.
- Self priming.
- Can handle non lubricating fluids.
- Accuracy of +/- 5%.



Isochem

Magnetically driven external gear pumps available in various materials and designed for the handling of low and high viscosity liquids – even in continuous or cyclic operations. They are self priming and bi-directional and offer additional product containment and a leak free seal-less design.

- St Steel
- Alloy 20
- Hastelloy
- PEEK
- PTFE



- Additional product containment.
- Seal-less leak free construction.
- Bi-directional.
- Lubricated by process fluid.
- Self priming.
- Can handle non lubricating fluids.
- Accuracy of +/- 5%.



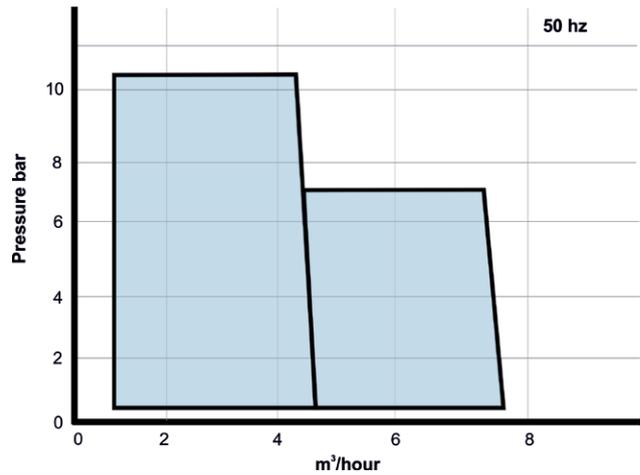


Gear

Eclipse

Magnetically driven external gear pumps available in various techno-polymer materials and designed for the handling of low and high viscosity liquids. Based on a simple 16 component design they offer additional product containment and a leak free seal-less construction.

- ETFE
- PVDF
- EPDM
- Viton



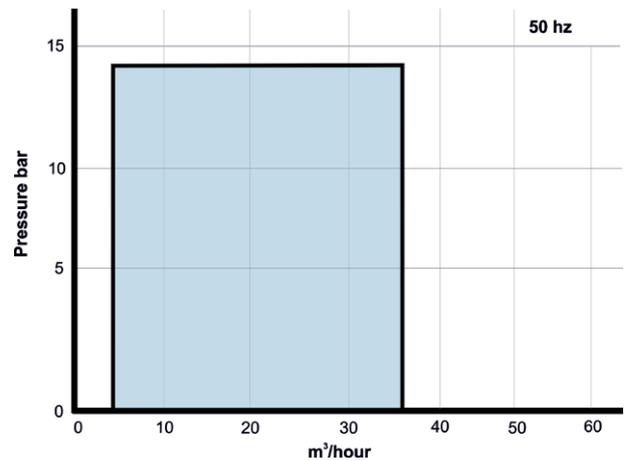
- Additional product containment.
- Seal-less leak free construction.
- Bi-directional.
- Lubricated by process fluid.
- Easy to maintain.
- Universal flanges with PTFE insert.



Envirogear

Magnetically driven internal gear pumps featuring a revolutionary support system that effectively eliminates leaks and mechanical wear. This makes them a solution for environmentally conscious fluid handling of both thin and viscous products.

- St Steel
- Carb Steel
- Ductile Iron
- SiC
- Carbon
- Viton
- FEP



- Patented between-the-bearing support system. High reliability and durability
- Bi-directional.
- Lowest overall cost of ownership
- Single-fluid-chamber seal-less design.





Heat Exchangers

Gasketed Plate Heat Exchangers

Having invented the plate heat exchanger, APV gasketed heat exchangers remain amongst the best designed and constructed heat exchangers in the world. They are available with port sizes from 3/4" to 20" and plate areas from 0.018 to 3.8 m².

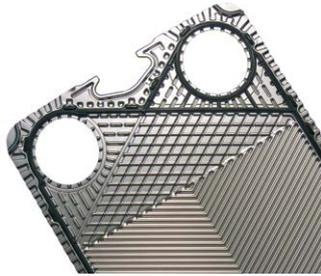
- Improved hanging system that eliminates plate flexing thereby prolonging product life.
- A unique clamping system designed into the plate profile.
- Adhesive free gasket retention system.



EnergySaver

For processing low-viscosity media. Designed for high thermal efficiency with a very close temperature approach.

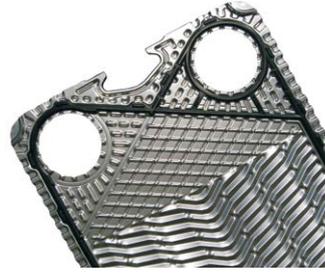
- St Steel
- Titanium
- NBR
- EPDM
- Viton



EasyFlow

For media containing fibres or pulp, requiring highest possible recovery without blocking.

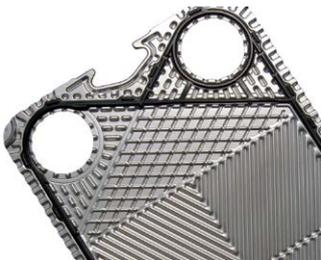
- St Steel
- Titanium
- NBR
- EPDM
- Viton



DuraFlow

For medium or high viscosity media. Designed for continuous process and long run time.

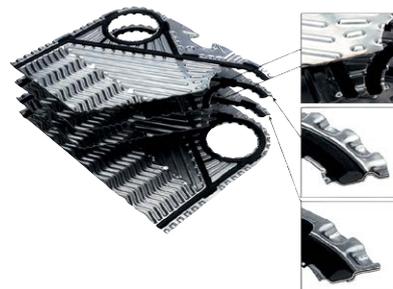
- St Steel
- Titanium
- NBR
- EPDM
- Viton



DuoSafety

The DuoSafety system is an adhesive free early warning system, designed to detect leakages at an early stage and enable the end user to take precautions against intermixing of the fluids.

- St Steel
- Titanium
- NBR
- EPDM
- Viton





Heat Exchangers

ParaBrazed

A comprehensive range of compact brazed plate heat exchangers without gaskets. ParaBrazed units are especially suited for water heater, district heating units, gas boilers, and solar heating.

St Steel

- No gaskets..
- Higher pressure rating.
- Higher temperatures.
- Higher viscosities.
- Stocked for short lead times.

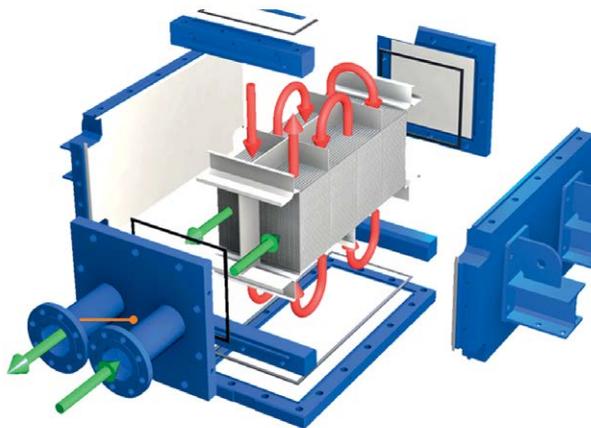


Hybrid

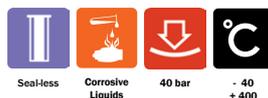
Fully-welded plate heat exchanger for heating, cooling, condensing and evaporating. Typically used for high temperature and high pressure duties, e.g. in power, chemical and sugar industries.

St Steel

Titanium



- Strong vessel construction.
- No gaskets.
- 4 different profiles.
- Higher temperatures.
- Higher viscosities.
- Display a low pressure drop.
- Fully cleanable.



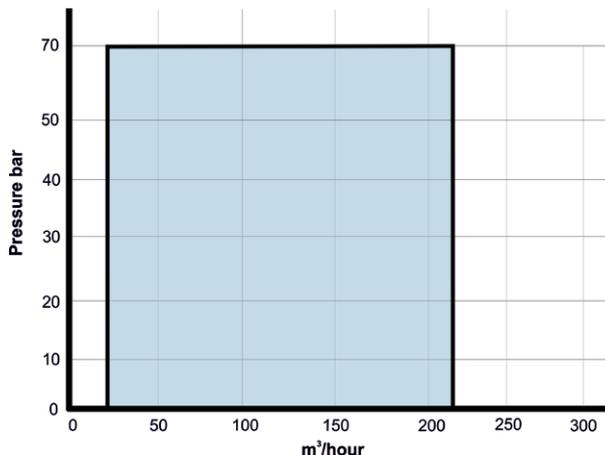


Compressors

Blackmer Compressors

Oil-free industrial piston compressors featuring high-efficiency valves which move more volume. Offering a compression ration of up to 9, they are ideal for LPG/propane, butadiene, hydrogen, natural gas, sulphur dioxide, and numerous other gases.

- St Steel
- Duct Iron
- NBR
- Viton
- PTFE
- Neoprene



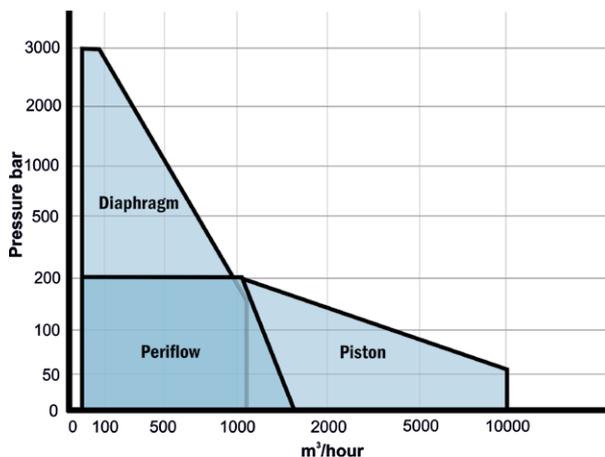
- Oil free.
- High efficiency valves move more volume
- Heavy-duty, precision-ground crankshaft.
- Pressure assisted piston rings for positive seating.
- Pressure lubricated bearings.
- Self-adjusting piston rod seals.



Burton Corblin

A comprehensive range of high specification piston, diaphragm and peripheral compressors to API 618 and 617. Piston models will handle flows up to 10,000 m³/hr and the Diaphragm construction offers higher degrees of containment while the Periflow peripheral range generates a pulse free output.

- St Steel
- Hastelloy
- Dup St St
- Titanium
- Cast Iron
- Monel
- EPDM
- Viton
- PTFE



- Bespoke construction.
- A range of gas containment options covering the most searching of gasses.
- Horizontally aligned cylinders with removable liners.
- Range of capacity control systems.
- Compression ratios of up to 1:15.
- Conform to both API 618 and API 617.





Installation

We can install and commission your pumps to ensure they work properly from the word “go” and identify any issues with your system that may adversely affect the pump.



Monitoring

We can monitor your pumps to check they’re working OK. By performing regular checks we can foresee problems and carry out planned maintenance work, therefore preventing pump failures and process stoppages.



Repair

We can undertake numerous types of work on-site or at one of our Service Centres. This work can range from simple maintenance, to completely rebuilding your pump by recreating key components.



PD Pump Repair

AxFlow are the acknowledged European leaders in the supply of positive displacement pumps.

This means that we truly understand positive displacement pumps and the special challenges that their repair can pose. We also hold large stocks of components in our European Distribution Centre that reduce our repair times.



Hygienic Pump Repair

As a result of our strength in positive displacement pumps and knowledge of the Food & Beverage Industry, we have become market leaders in the supply of hygienic pumps to a range of different industries across the UK.

To support this we have created clean assembly areas within our repair facilities and developed specific hygienic pump repair procedures.



Large Pump Repair

We have the ability to handle up to 40 tonnes, and test motors up to 30 kW which make us able to work with the very largest of pumps.





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