

fluidity.
nonstop

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING



Oil and Gas

 **AxFLOW**



fluidity. nonstop

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING

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.



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

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.

- Food and beverage
- Chemical process
- Off shore and petrochemical
- Pharmaceutical
- Water treatment
- Municipal authorities
- Power generation
- Building services
- Marine and dockside.

AxFlow has had a pump centre in Aberdeen for over 40 years giving us an intimate knowledge of the North Sea offshore industry and the ability to react quickly when required.

The most comprehensive portfolio of process pumps in the UK

Our process pump range covers AOD pumps, centrifugal pumps and numerous positive displacement pumps making it one of the largest ranges available to the UK offshore and petrochemical sector.



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.



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.

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.



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.



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



Recently acquired by Gruppo Aturia Finder is one of the leading pump suppliers to the Oil and Gas sector with an impressive range of API 610 pumps.



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



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 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.



Since their introduction in 1884 FMC Technologies' piston and plunger pumps have remained at the forefront of high pressure reciprocation pump technology.



APV invented the plate heat exchanger in 1923 and have remained a dominant force in process plate heat exchangers ever since. AxFlow have recently become the exclusive UK distributor for their products in the Chemical Process and Offshore markets.



Since 1972, Hydra-Cell's seal-less, diaphragm pumps have proven reliability in lowering the total cost of ownership in low and high pressure applications handling liquids of all types from thin non-lubricants to abrasive slurries, chemicals and contaminated mixes. Metering & dosing, transfer, pressure injection.

Experts in pumps associated with the offshore and petrochemical industries

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

Produced Water Pumps

There are many different types and approaches to the separation of the well fluid components and because of this, a myriad of pump types are used. At AxFlow we understand the challenges of separation processes and the transfer of produced water such as the high temperatures, high pressures, gritty solids, low NPSH and the need in many instances for low shear solutions. This understanding is supported by our extremely wide product range that allows us to offer API 610 centrifugal pumps, vertical pumps and many types of API 675 positive displacement pumps boasting low shear characteristics.

Seawater Lift Pumps

Having teamed up with Gruppo Aturia, AxFlow is able to offer many types of vertical seawater lift pumps including semi submersible multi-stage mixed flow and fully submersible multi-stage radial and mixed flow pumps. They are available in stainless steel, Duplex and Super Duplex materials, can be constructed to lengths well in excess of 50 metres and are both Factory Mutual and NFPA approved. Lastly, we provide comprehensive and experienced support for the installation of the pumps in offshore applications.

Separated Oil Pumps

Slops Tanks are often located in the lower sections of the rig and because of this Recovered Oil Pumps may need to cope with high heads, higher than normal viscosities and offer low shear pumping actions. AxFlow are in an almost unique position to offer both centrifugal and positive displacement pump solutions.

Closed Drain Pumps

Closed drain pumps can see a wide range of liquids containing hydrocarbons, corrosive chemicals and solids. AxFlow have numerous pumps that can be fitted on closed drain tanks from air driven AOD pumps and vertical pumps through to large API 610 units and rotary lobe models capable of handling liquid sludge.

Chemical Injection Pumps

The definition of chemical injection varies greatly across the offshore and petrochemical sectors as different applications require different levels of accuracy, reliability and pressure. Consequently, we offer a range of pumps capable of dosing to different levels of flow and accuracy. These range from AOD and precise metering pumps through to high pressure piston and plunger pumps.

Heating and Cooling

Heating and cooling systems come in many guises from heat transfer used in well fluid separation processes to HVAC systems used in accommodation blocks. Axflow have pumps suitable for all of these different systems including cast iron water pumps, API 610/API 685 pumps along with turbine and rotary lobe pumps for low flow high head duties.

General Purpose Transfer Pumps

In addition to our very wide range of centrifugal and PD transfer pumps, AxFlow are the UK offshore sector's leader in the supply and hire of air driven AOD pumps and specialize in the supply of ATEX complaint vane pumps for fuel transfer.



Range Summary

		API ISO/DIN	Material			Seal Type	ATEX	Solids	Max m	Max m ³ /hr	Max bar	Max °C	Page Nos
AOD													
Metal High Pressure	Wilden		SS			Seal-less			200	22	20	176	6
AH	Almatec		PE	PTFE		Seal-less			160	22	16	176	6
Original/Advanced	Wilden		PP	PVDF		Seal-less			80	45	8	107	7
Original/Advanced	Wilden		SS	AL	DI	Seal-less			80	70	8	176	7
E series	Almatec		PE	PTFE		Seal-less			70	35	7	176	8
Chemisor	Almatec		SS			Seal-less			70	26	7	176	8
Centrifugal													
SMKM	Aturia	610 OH2	SS	HST	DX				380	1500	50	450	10
KSMKM	Aturia	610 BB2	SS	HST	DX				400	2000	50	450	10
ND	Aturia	ISO 5199	SS	DX					140	1700	16	250	11
NDM	Aturia	ISO 5199	SS	DX	HST				140	470	25	300	11
SMKM - M	Aturia	685 OH2	SS	HST	DX				380	1500	25	300	12
CNP	Hermetic	685 OH2	CS	SS	HST				220	1000	50	425	13
CN		ISO 2858	CS	SS	HST				180	1600	1200	400	13
CAM			CS	SS	HST				1000	300	500	360	13
VAB - PAG	Aturia	610 VS1, VS6	CI	SS	DX				200	6000	16	60	14
ELV	Aturia	610 VS3, VS7	CI	SS	DX				15	30000	16	60	14
Submersible	Aturia		SS	HST	DX	TI			700	900	70	60	15
NA and NE	Aturia	DIN 24255	CI	BR	SS				130	1000	10	60	16
AquaRange	Aturia	DIN 24255	CI	BR	SS				100	250	10	60	16
TK - VTK	Aturia		CI	SS	C Steel				640	800	65	60	17
PD - VPD	Aturia	610 BB1	CI	SS	C Steel				170	3500	17	60	17
Turbine													
STM	Aturia	685	SS	HST	DX	TI			90	10	300	300	12
SDTM	Aturia	685	SS	HST	DX	TI			180	12	300	300	12
Metering													
Plunger	OBL		SS	PVC	PVDF	Seal-less			4000	5.5	400	280	18
Hydraulic Diaphragm	OBL	675	SS	PVC	PVDF	PTFE	Seal-less		1400	3.7	140	100	18
PULSA pro 900	Pulsafeeder	675	TI	PVC	Viton	PTFE	Seal-less		3010	62	1000	370	19
PULSAR	Pulsafeeder		SS	CSM	PFA	PTFE	Seal-less		2200	0.4	260	110	19
Hydra-Cell	Wanner	675							3500	350	350	150	20-21
Rotary Lobe													
Universal	Waukesha		SS						350	133	35	148	22
Borger	Borger		CI	CS	SS				350	133	12	100	22
Vane													
NP-SNP-HXL	Blackmer	676	SS	CI					140	250	14	260	23
SVM	Aturia	676	SS	HST	DX	TI			130	2	300	300	23
Piston/Plunger													
FMC	FMC	674	CI	SS	DX				6900	340	690	150	21

SS	Stainless Steel
DX	Duplex Stainless Steel
HST	Hastelloy
CI	Cast Iron
CS	Carbon Steel

HC	Hi Chrome Steel
TI	Titanium
DI	Ductile Iron

PP	Polypropylene
PVDF	Polyvinylidene Fluoride
PTFE	Polytetrafluoroethylene

SI	Silicone
TYG	Tygon
SOL	Solva
NR	NR

HYP	Hypalon
NOR	Norprene
NBR	Nitile
NR	Natural rubber

Mechanical seal

Magnetically Driven

Canned pump

ATEX compliant

Solids handling

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



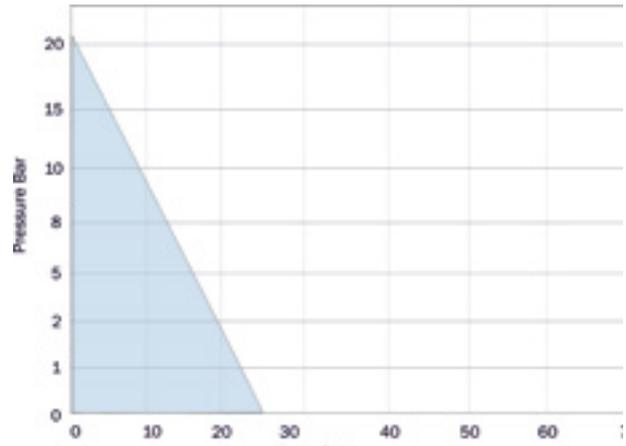
AODD

High Pressure

Wilden's High Pressure Series AODD pumps are designed for utilitarian applications that require higher pressures and can deliver up to 20 bar discharge pressure.

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

- Solids
- Self Priming
- Corrosive Liquids
- Abrasive Liquids



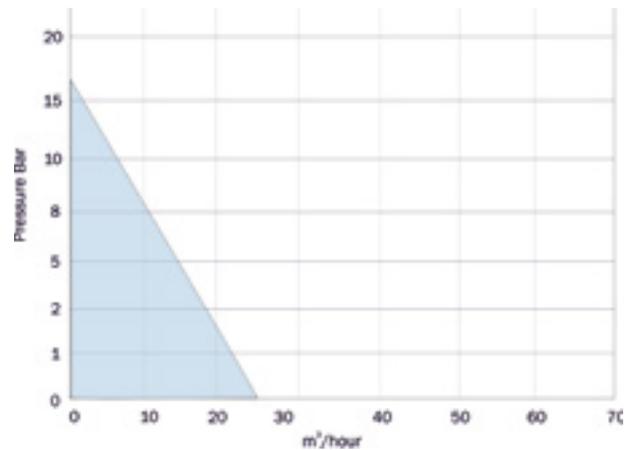
- High discharge pressures.
- Reliable and very robust.
- Improved product containment.
- Dry priming and dry running.
- Single-point exhaust option.
- Can be dead headed without damage.
- Will deliver variable flow and pressure.
- Sizes 1/2" to 4".



AH Series

Almatec's high-pressure plastic diaphragm pumps made of PE UHMW, which is seven times more resistant to abrasion than PP, and is more resistant to wear than aluminium, iron or steel.

- PE
- PTFE
- EPDM
- PTFE
- NBR



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





AODD

Original/Advanced Plastic

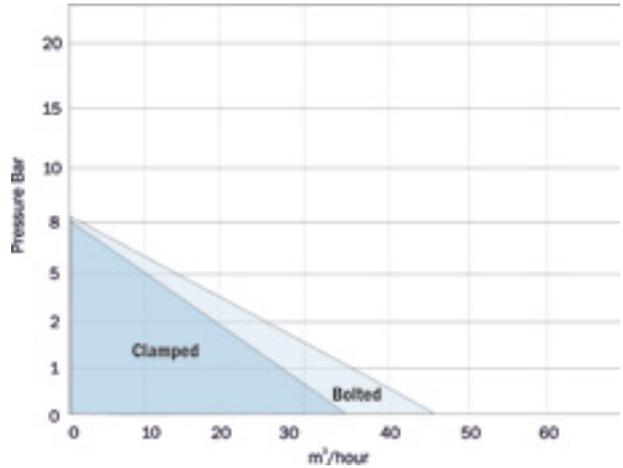
Wilden's Original Series AODD pumps are designed for utilitarian applications that require a robust construction. The Advanced Series AODD pumps are constructed with bolts to give a better diaphragm seal to cope with varying discharge pressures. They both utilise ProFlo Shift which automatically optimizes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

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

- Solids
- Self Priming
- Corrosive Liquids
- Abrasive Liquids



- 8 bar
- Viscous
20,000 cP
- +107 °C
-40 °C



- 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

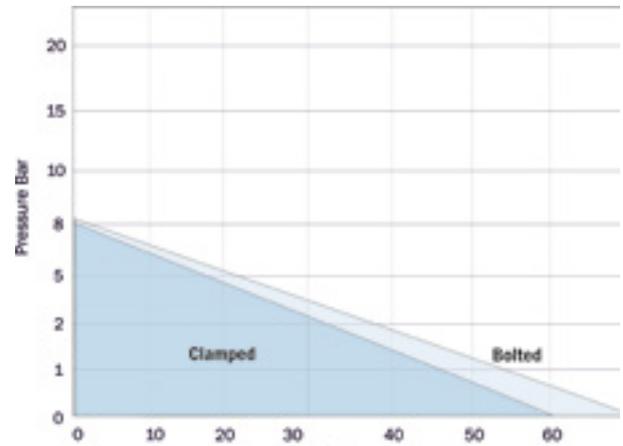
Wilden's Original Series AODD pumps are designed for utilitarian applications that require a robust construction. The Advanced Series AODD pumps are constructed with bolts to give a better diaphragm seal to cope with varying discharge pressures. They both utilise ProFlo which automatically optimizes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

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

- Solids
- Self Priming
- Corrosive Liquids
- Abrasive Liquids



- 8 bar
- Viscous
20,000 cP
- +107 °C
-40 °C



- 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".





AODD

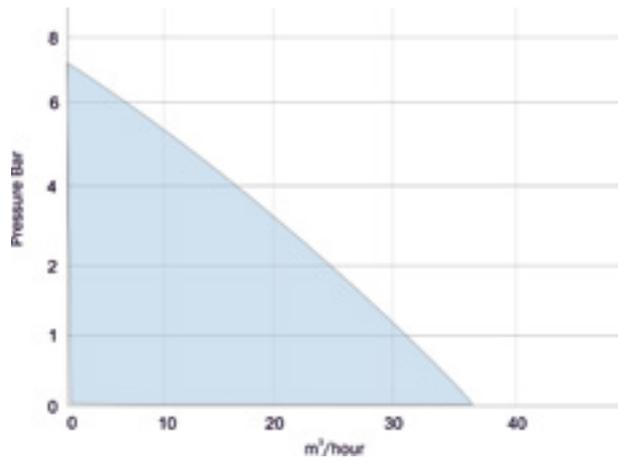
E Series

Almatec's 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



- Solids
- Self Priming
- Corrosive Liquids
- Abrasive Liquids



- 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.

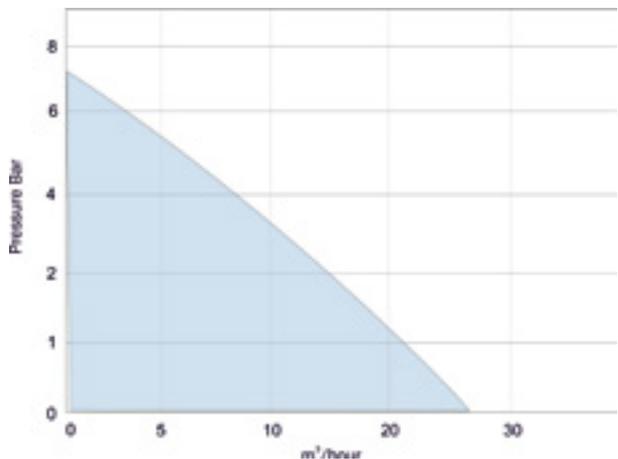
Chemisor

Almatec's 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



- Solids
- Self Priming
- Corrosive Liquids
- Abrasive Liquids



- 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".

Hire Pumps

AxFlow offers the largest fleet of AOD hire pumps in Aberdeen. This includes chemically resistant plastic, high pressure and ATEX compliant models.

All of our hire pumps are fully serviced using only approved manufacturers' parts. Our core hire products consist of Wilden's air operated double diaphragm (AODD) pumps and Wanner's Hydra-Cell pumps.

Why hire a pump?

- No capital cost of purchase.
- Hire pumps can satisfy urgent requirements with shorter delivery times.
- A practical solution for equipment that may only be used occasionally.
- No concerns regarding maintenance.
- Try before you buy.

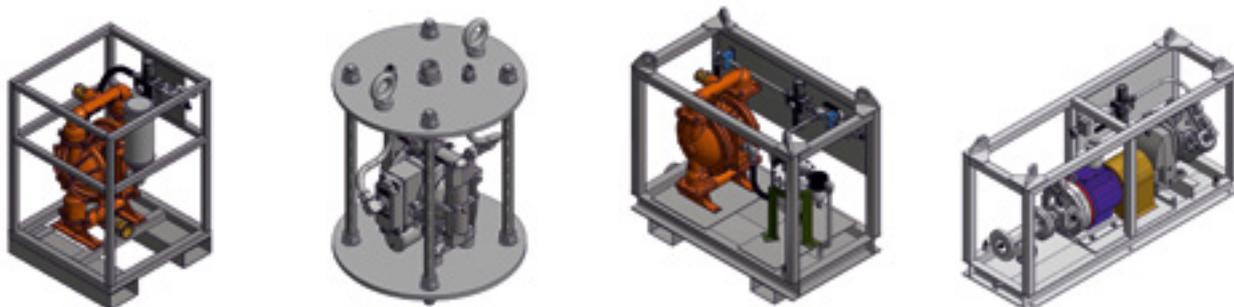
Wilden AODD Pumps

- Flows to 60 m³/hr
- Pressures to 17 bar
- Ideal for general transfer duties, hydrocarbon condensate and waste water removal.



HydraCell Pumps

- Pressure greater than 17 bar
- Where no compressed air is available.





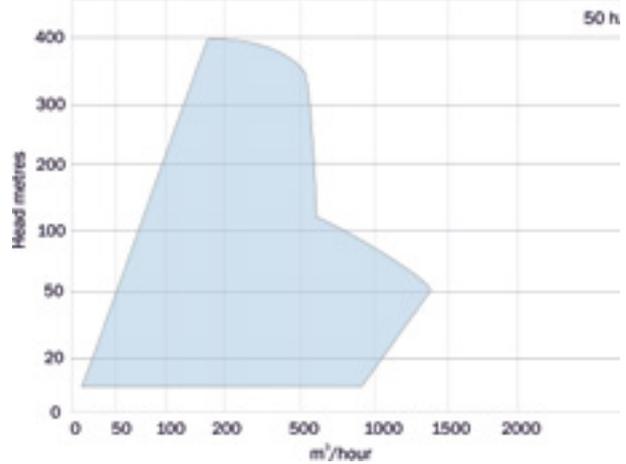
Centrifugal

SMKM

A range of API 610 and OH2 process pumps. SMKM pumps have seen decades of successful use around the globe and for all major producers. SMKM pumps are available in an extremely wide variety of materials.

- Carb Steel
- St Steel
- Hastelloy
- Duplex
- S Duplex
- Titanium

- Corrosive Liquids
- Refrigerants



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

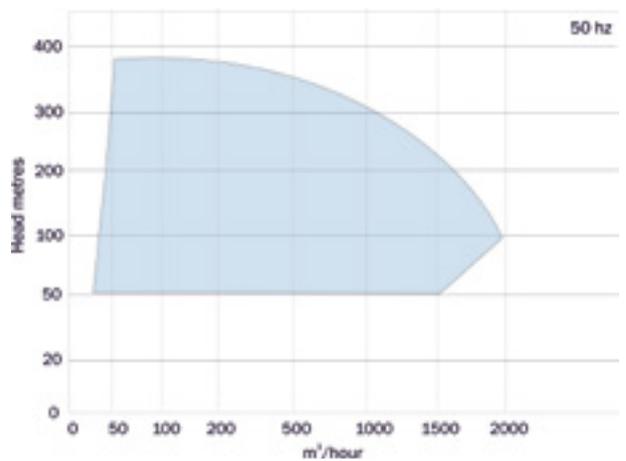


KSMKM

A range of split case bearing process pumps to API 610 (BB2). KSMKM pumps can be constructed as two stage units. Also available as mag drive API 685.

- C Steel
- St Steel
- Duplex
- S Duplex
- CA6NM

- Corrosive Liquids
- Refrigerants



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





Centrifugal

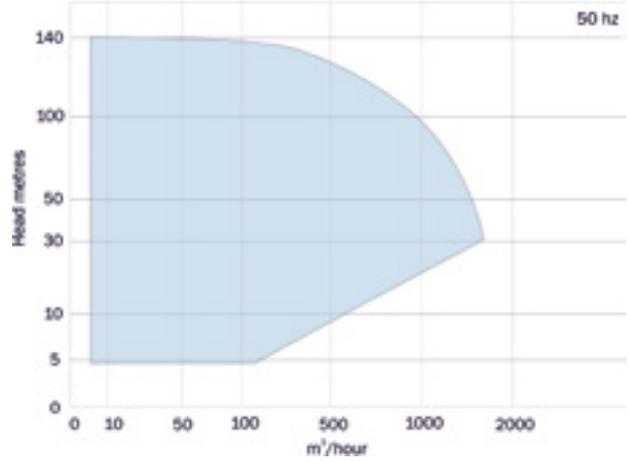
ND

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. ND pumps can be fitted with seals to API 682.

- St Steel
- Dup St St
- S Dup St St
- Hastelloy
- Titanium
- Carb St
- Monel



✓ Corrosive Liquids



- 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.



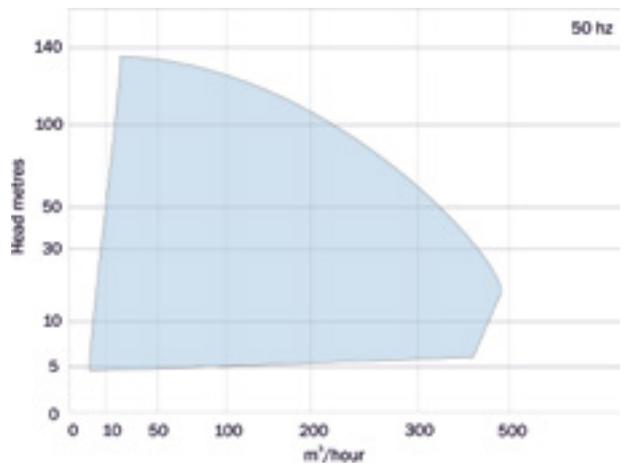
NDM

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

- St Steel
- Hastelloy
- Dup St St



✓ Corrosive Liquids



- 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.



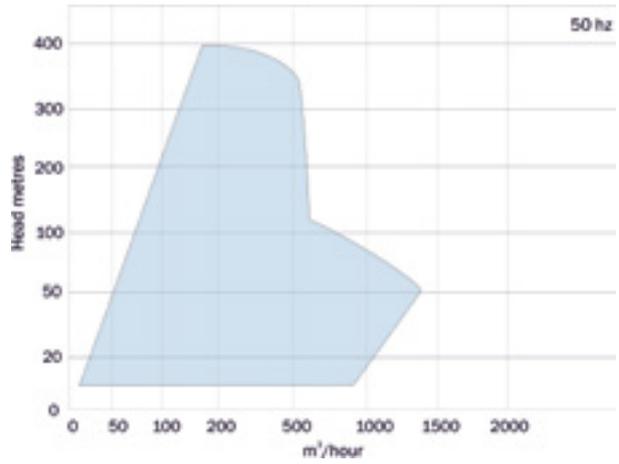


Centrifugal

SMKM-M

A range of API 685 OH2 process pumps. SMKM-M pumps can be made from a wide range of materials and have seen many years successful service. The SMKM-M is centre line mounted making it more stable and capable of withstanding higher temperatures.

- Carb Steel
- St Steel
- Hastelloy
- Duplex
- S Duplex
- Titanium



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

- Corrosive Liquids
- Refrigerants

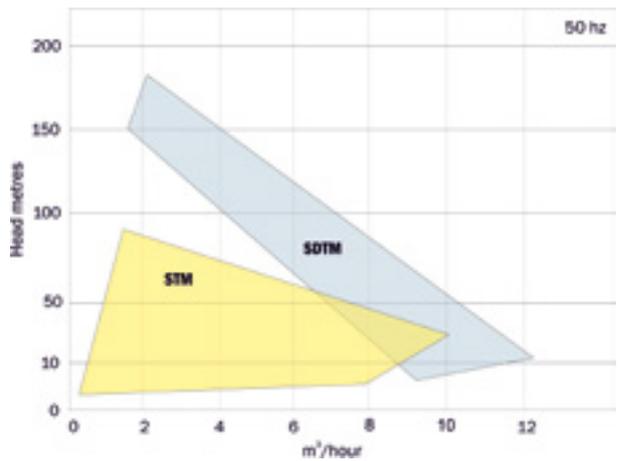


Turbine

STM – SDTM

High specification regenerative turbine pumps for high heads/ low flow applications. Because STM and SDTM pumps are machined from solid metal, they offer an extremely wide range of design options and construction materials. Comply to API 685.

- 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.



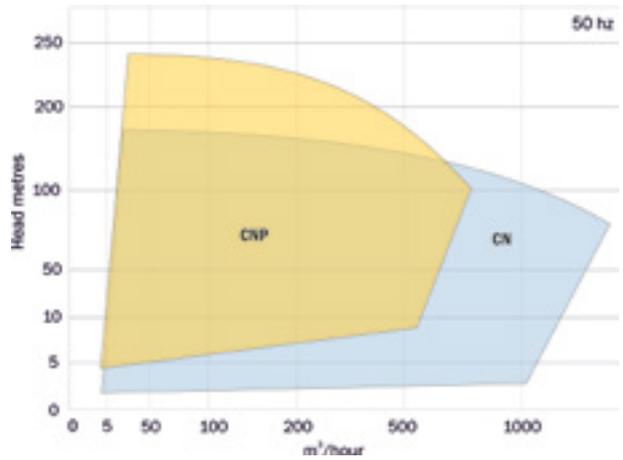


Centrifugal

CNP – CN

The CNP range of canned pumps utilise API 610 hydraulics, combined with canned pump technology to provide a fully compliant API685 seal-less pump. The CN range conforms to ISO 2858. Both provide high levels of containment and a integral pump/motor construction, they offer a trouble free solution without the complex seal systems and system pressures up to 1200 bar (CN).

- Steel
- St Steel
- Hastelloy
- Dup St St



- Corrosive Liquids
- Refrigerants

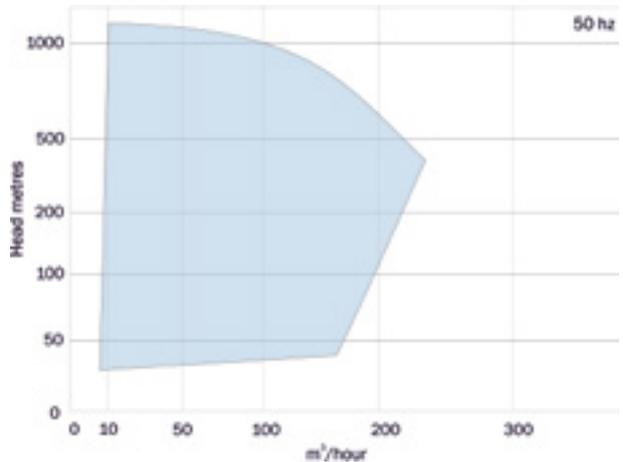
- Double containment of liquid.
- Extremely long service life.
- Reduced footprint.
- Simplified installation.
- ATEX certified up to T6.
- Reduced instrumentation.



CAM – CAM Tandem

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.





Axial Flow



Centrifugal

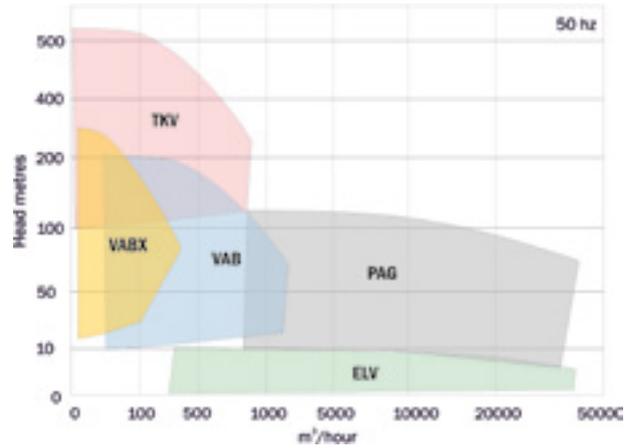


Mixed Flow

Gruppo Aturia Semi-Submersible Pumps

Gruppo Aturia have been making vertical pumps since the 1890's and remain at the forefront of the industry. The Aturia range of vertical pumps includes semi-submersible cantilever pumps and submersible pumps and utilises centrifugal, mixed flow (turbine pumps) and axial flow pump technologies.

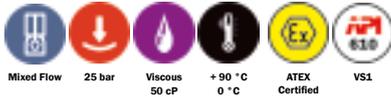
Applications for our Aturia vertical pumps include: Seawater lift pumps, borehole pumps, fire fighting pumps and drainage pumps.



VAB – VABX

The VAB and VABX ranges are multi-stage mixed flow (turbine) pumps to API 610 VS1 and VS6 when barrel pumps.

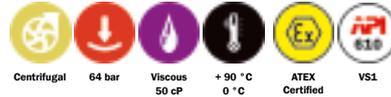
- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



TKV

The TKV range are multi-stage radial flow (centrifugal) pumps to API 610 VS1 and also VS6 when barrel pumps.

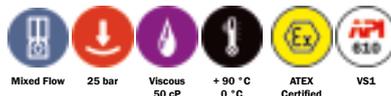
- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



PAG

PAG pumps are high flow mixed flow (turbine) pumps to API 610 VS1, VS2 and VS6 when barrel pumps.

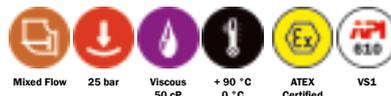
- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



ELV

ELV are single or two stage axial flow pumps to API 610 VS3 and VS6 barrel pumps.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex





Centrifugal

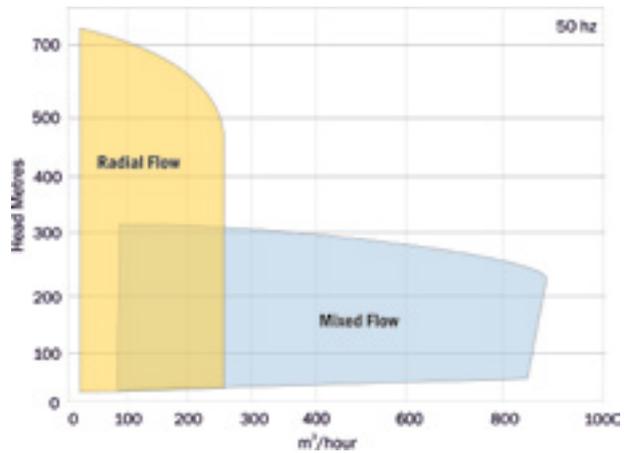
Gruppo Aturia Submersible Pumps

An extremely comprehensive range of fully submersible pumps including both mixed and radial flow models. They are available in sizes from 6 to 14”.

- Designed with the minimum number of wearing components.
- Impellers are dynamically balanced and splined to the shaft.
- The shafts are driven by coaxial bearing bushes and protected by sleeves.
- All the pumps are provided with NRVs.



Mixed Flow



Mixed Flow

Mixed flow submersible pumps can be fitted with standard Aturia 400v and 690v motors or purpose made MV and HV motors.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Radial Flow

Radial flow (centrifugal) models are available in sizes from 6” to 12” for low flow high head applications.

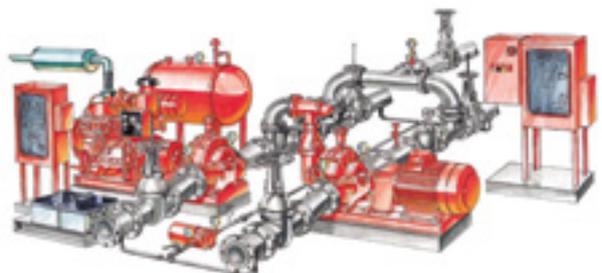
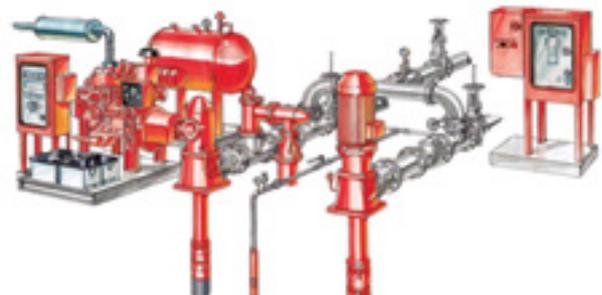
- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Fire Fighting Systems

Audoli & Bertola” is a division of Gruppo Aturia and operates exclusively in the fire fighting field as supplier of water fire fighting packages in compliance with the European Standards (EN 12845 e EN 12259-12) and the American Standards (NFPA 20).

Audoli & Bertola is the only Italian pumps manufacturer to have obtained from “Factory Mutual” the approval for its vertical turbine pumps and split case pumps for a range of capacities from 500 USGPM to 3500 USGPM, at 50 ÷ 60 Hz and Diesel Driven. ATEX: Packages and Pumps for Atex Classified area are available for Electrical Pump and Diesel Engine Driven Pump Fire-Fighting services.



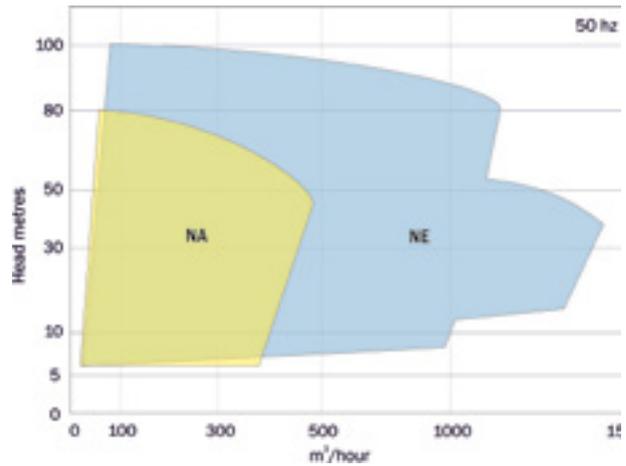


Centrifugal

NA and NE

The NA and NE ranges are long coupled pumps to DIN24255-EN733-UNI 7467. They have oversized shafts with oil lubricated ball bearings along with balanced impellers. The NE range offers ATEX approval.

Cast Iron
Bronze
St Steel



- Many sizes ex-stock.
- High efficiency & low NPSHr.
- CI with optional SS and Bronze impellers.
- Available with a range of seals.



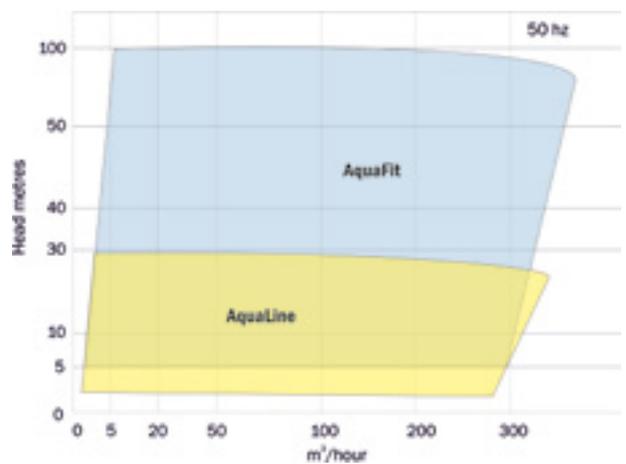
AquaRange

The AquaRange of mono block pumps is made up of :

- **AquaFit** single stage end-suction pumps to DIN 24255.
- **AquaLine** inline vertical pumps available as either a single or double construction.

All pumps meet the required efficiencies of the **ErP** Directive.

Cast Iron
Bronze
St Steel



- Dynamically balanced impellers.
- Cast iron, bronze or stainless steel impellers.
- Low NPSH requirements.
- High quality castings.
- Compact construction.
- Designed and manufactured to ISO 9001.
- Short delivery times.
- A choice of connection types.



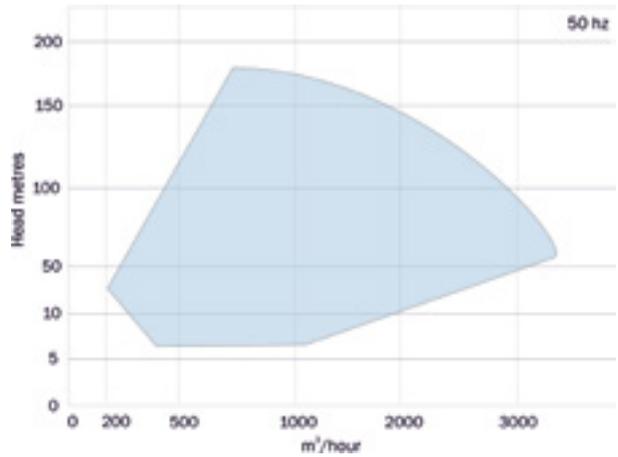
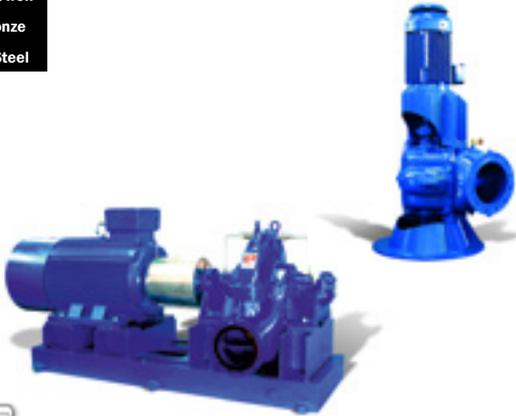


Centrifugal

PD

Robust split case, double suction pumps available in either horizontal or vertical configurations. The position of inlet and outlet nozzles (in the lower half case of PD horizontal pumps or in the rear half case of PDV vertical pumps) allows inspection and repair without removing the pump from its position.

Cast Iron
Bronze
St Steel



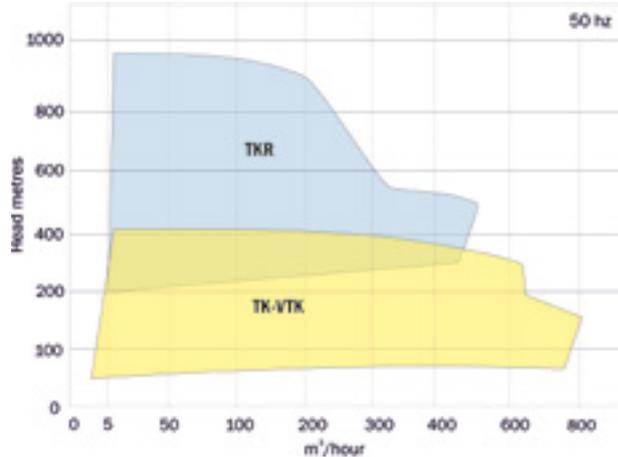
- Replaceable shaft sleeves.
- Pump body in CI optional steel or ductile iron.
- Impellers CI optional DI and SS.
- Grease or oil lubricated roller bearings.
- Gland packing or a range of mechanical seals.
- Many models available to API 610.



TK-VTK

A comprehensive range of horizontal and vertical multi-stage boiler feed pumps designed to ISO 9908 and ISO 9906 deg 2. All models can conform to the latest ErP directive requirements.

St Steel
Carb Steel
Cast Iron



- Oversized shaft.
- Double, oil lubricated ball bearings.
- Dynamically balanced impellers.
- High efficiency & low NPSHr.
- CI with optional SS and Bronze impellers.
- Available with a range of seals.





Metering

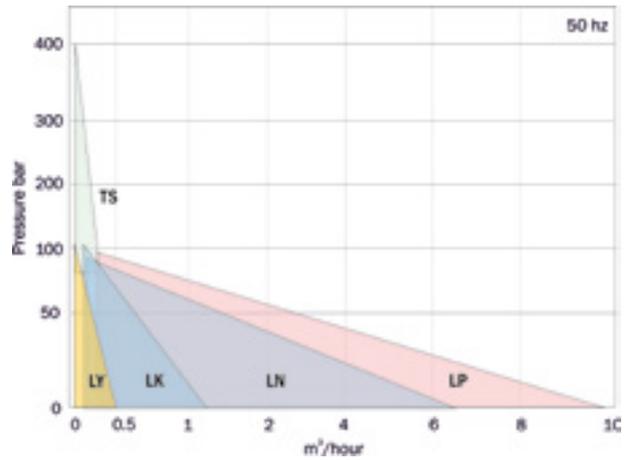
OBL Plunger

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



- Self Priming
- Corrosive Liquids



- 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.



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.

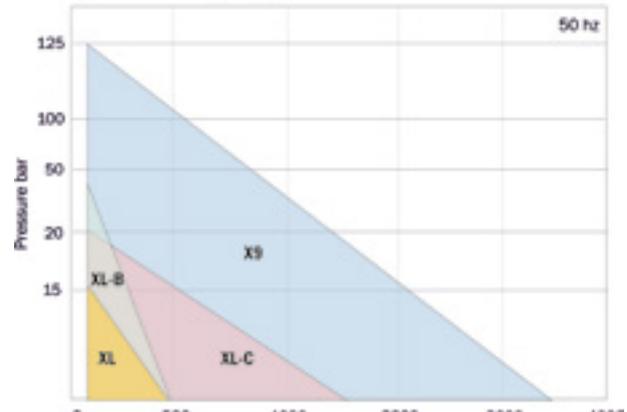
- St Steel
- PVC
- PVDF
- PTFE
- Viton



- Self Priming
- Corrosive Liquids



OBL Hydraulic diaphragm



- 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.





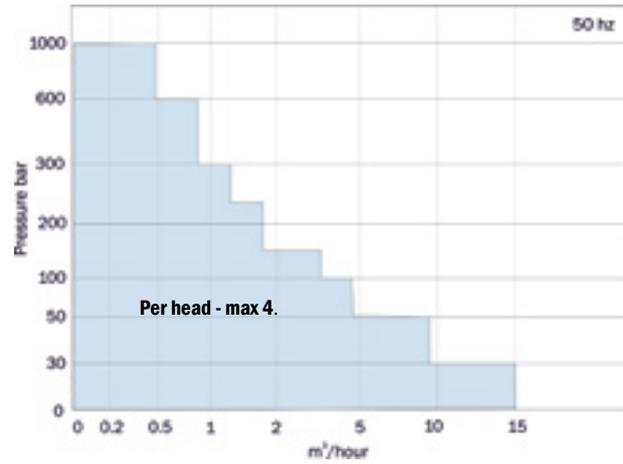
Metering

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

- Self Priming
- Corrosive Liquids



- 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.

Pulsar

Pulsar Pumps are high specification API 675 metering pumps available with three different designs:

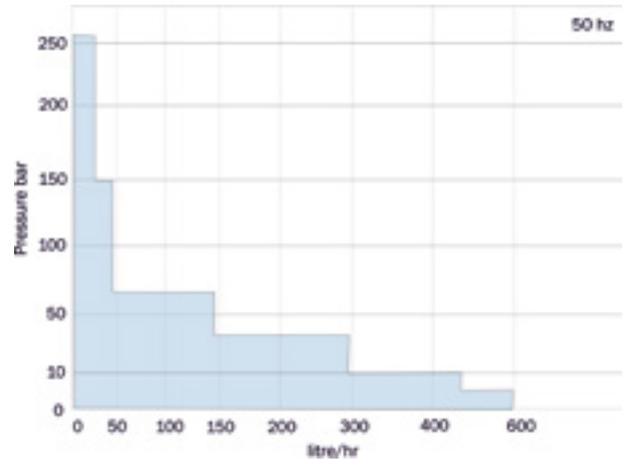
Pulsar for flows up to 450 l/min and 250 bar.

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

- Self Priming
- Corrosive Liquids



- 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.



Metering

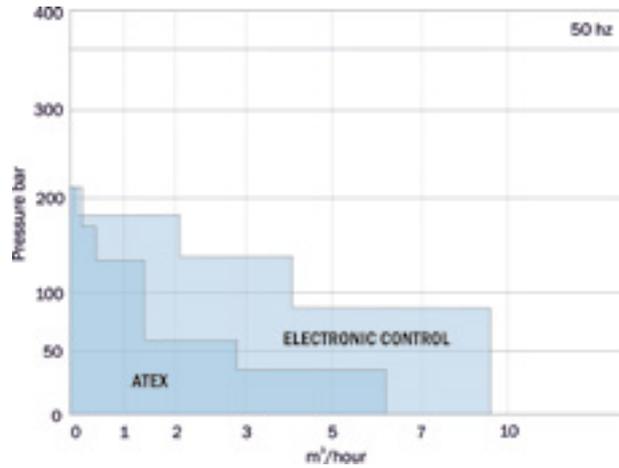
Pulse-less metering with Hydra-Cell®

Hydra-Cell Metering Solutions product range incorporates multiple diaphragms which are not conventional and enable you to exceed API 675 performance standards, and meet ATEX compliance, with virtually pulse-less, linear flow. Hydra-Cell Metering Pumps offer the advantages of conventional metering pumps with additional benefits.

- St Steel
- Hastelloy
- PVDF
- Viton
- Buna-N
- EPDM
- PTFE
- Neoprene



- ✓ Solids
- ✓ Self Priming
- ✓ Corrosive Liquids
- ✓ Abrasive Liquids

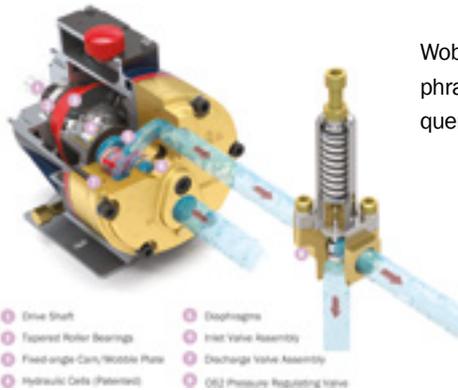


- No need for pulsation dampeners – saving installation and maintenance costs.
- Higher efficiencies.
- No pipe strain – no leakage.
- Smaller footprint, lower acquisition and maintenance costs.
- Superior valves for abrasives, viscous and solids containing fluids.
- More control over the accuracy and consistency of flow rate.
- Non-lost motion design.

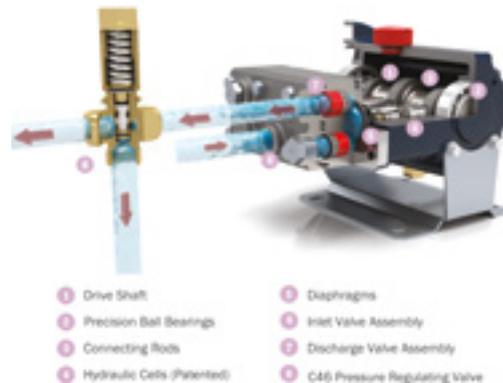


Wobble Plate Design

Wobble plate pumps can have up to five diaphragms, and each diaphragm has its own pumping chamber the diaphragms operate sequentially to provide consistent, low-pulse flow.



- 1 Drive Shaft
- 2 Tapered Roller Bearings
- 3 Fixed-angle Cam/Wobble Plate
- 4 Hydraulic Cells (Patented)
- 5 Diaphragms
- 6 Inlet Valve Assembly
- 7 Discharge Valve Assembly
- 8 C45 Pressure Regulating Valve



- 1 Drive Shaft
- 2 Precision Ball Bearings
- 3 Connecting Rods
- 4 Hydraulic Cells (Patented)
- 5 Diaphragms
- 6 Inlet Valve Assembly
- 7 Discharge Valve Assembly
- 8 C45 Pressure Regulating Valve

Diaphragm Position Control (DPC)

Hydra-Cell's DPC is a patented system which is designed to stabilize the diaphragms and virtually eliminates the possibility of an incidental diaphragm failure caused by adverse system conditions.



Crank-Shaft Design

Each piston contains a patented hydraulic cell (4) that is moved sequentially by the crank-shaft. The Hydra-Cell maintains the precise balance of oil behind the diaphragm (5) regardless of the operating conditions of the pump.

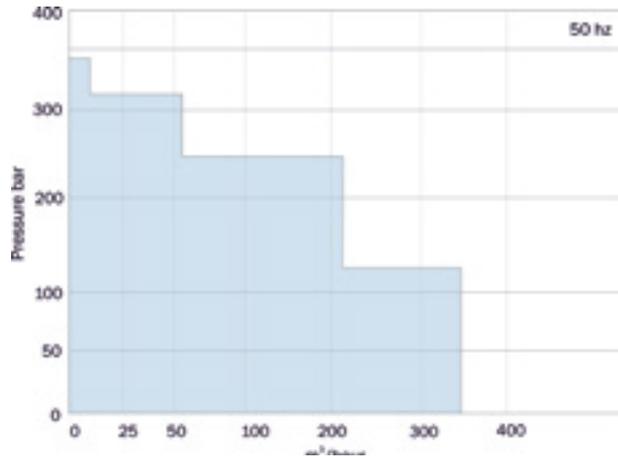


Metering

Hydra-Cell Transfer Pumps

Hydra-Cell Industrial Process pumps feature a seal-less, packing-free API674 design that eliminates leaks, hazards and the expense associated with seals and packing maintenance, lowering the cost of ownership and giving an extensively longer service life. These Hydra-Cell pumps can operate with a closed or blocked suction line and run dry indefinitely without damage.

- St Steel
- PVC
- PVDF
- PTFE
- Viton



- ✓ Solids
- ✓ Self Priming
- ✓ Corrosive Liquids
- ✓ Abrasive Liquids

- Seal-less design eliminates leaks.
- Unique diaphragm design handles more abrasives with less wear reducing maintenance, eliminating unplanned downtime and costs.
- Smaller footprint, lower acquisition and maintenance costs.

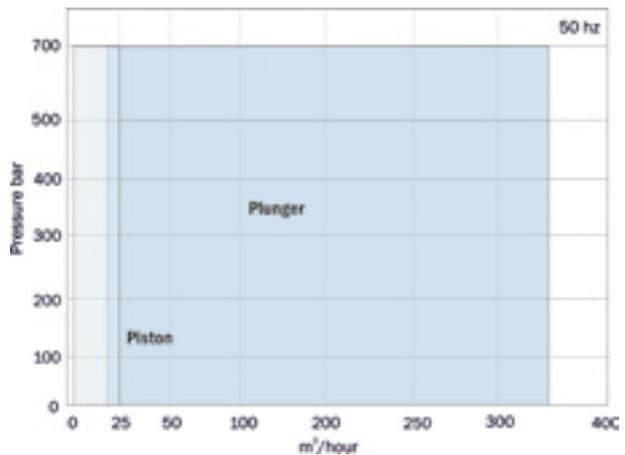


Piston/Plunger

FMC

FMC manufacture both piston and plunger pumps and by doing so can offer a cost effective solution for almost any application. Piston Pumps provide unsurpassed value for many low to medium pressure applications pumping undemanding fluids. Whereas FMC's plunger pumps cover higher pressure, flows and corrosive liquids.

- Duct Iron
- Carb Steel
- St St



- API 674.
- Vapour-less stuffing boxes.
- Controllable flows.
- Glycol, Methanol, MEG and IEG injection.





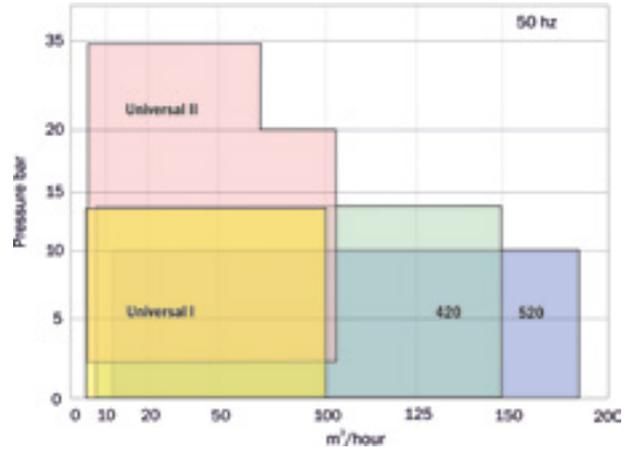
Rotary Piston

Universal

Waukesha circumferential piston pumps use arc shaped rotor wings resulting in a long sealing path. They have the ability to pump liquids with both high and low viscosities and at much higher heads than centrifugal pumps and with less shear. Their transfer rate varies less than centrifugal pumps when viscosities change.

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

- Solids
- Self Priming
- Low Shear
- Abrasive Liquids



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

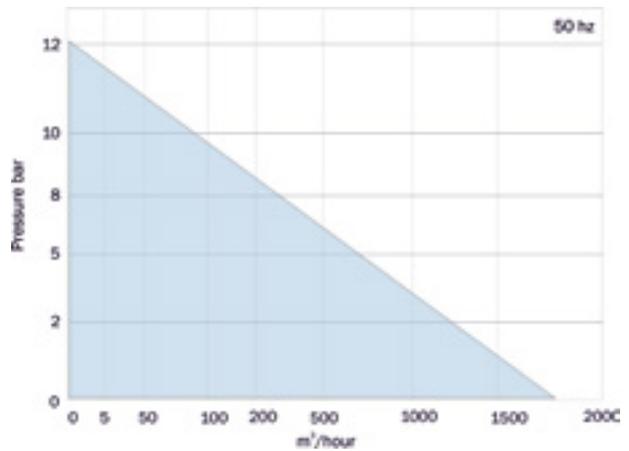
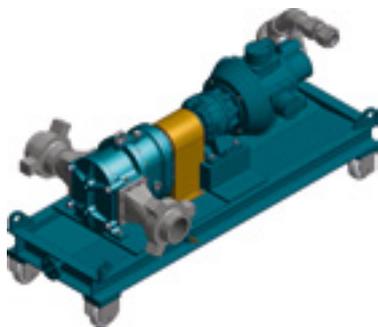


Börger

Simple and robust rotary lobe pumps that can handle large solids, are self priming and easy to maintain due to the low number of components. They are available in three different constructions Classic, Select and Protect which offer different types of mechanical seal.

- Cast Iron
- Cast Steel
- St Steel
- NBR
- EPDM
- Viton
- PTFE

- Solids
- Self Priming
- Low Shear



- Bi-directional flow.
- Self priming.
- Free draining pump housing.
- Maintenance in place.
- Can pump large solids.
- Can pump a wide range of viscosities.





Vane

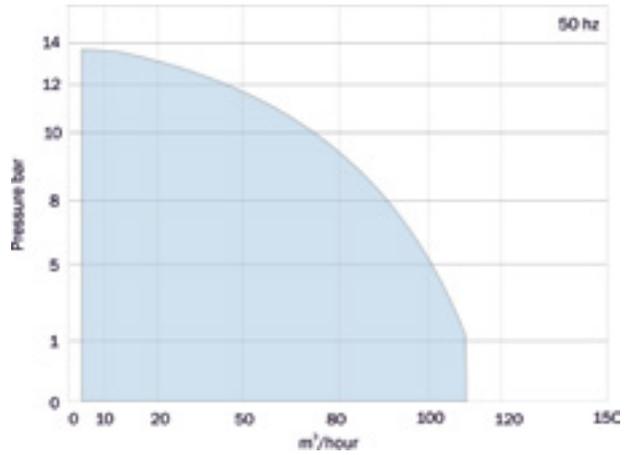
P Series

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. Blackmer vane pumps have proved particularly useful in fuel transfer duties.

- St Steel
- Cast Iron
- Viton
- Nitrile



- Low Shear
- Self Priming



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



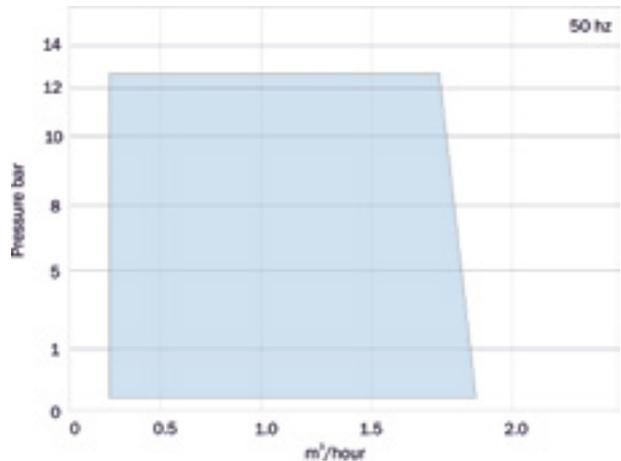
SVM-SVP

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
- Hastelloy
- Dup St St
- Titanium
- PP
- PVDF
- EPDM
- Viton
- FEP



- Self Priming
- Corrosive Liquids
- Refrigerants
- Low shear



- 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.

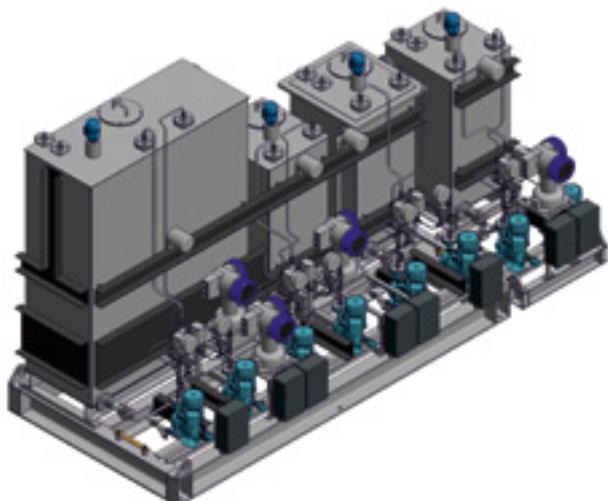


Offshore Skid Systems

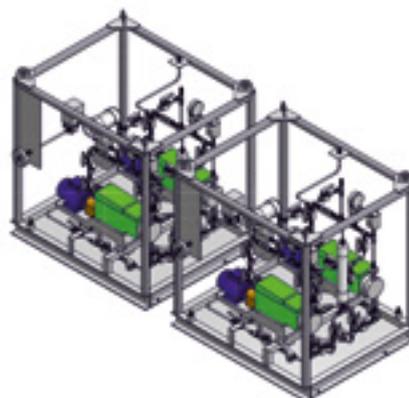
AxFlow pump skid packages are used for many different process requirements, including chemical injection, sea water filtration, fluid separation and treatment, effluent and sewage processing, cooling duties, product and chemical transfer, mud mixing, general sludge transfer and drain duties.



General purpose duty standby AODD pump skid.



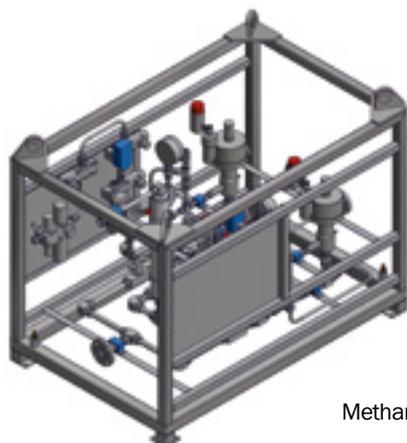
Chemical injection package for reverse osmosis system comprising 4 pump sets c/w tank and instrumentation, each configured duty and standby.



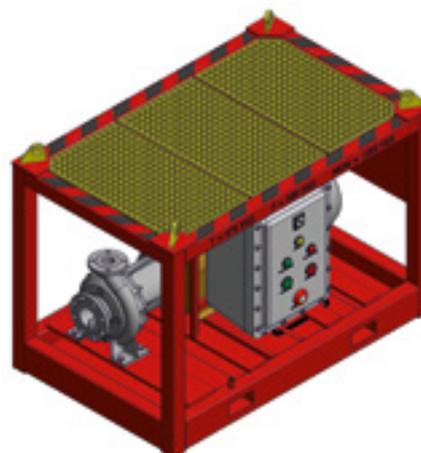
Magnetic drive centrifugal pump
Sulphuric Acid Transfer skid.

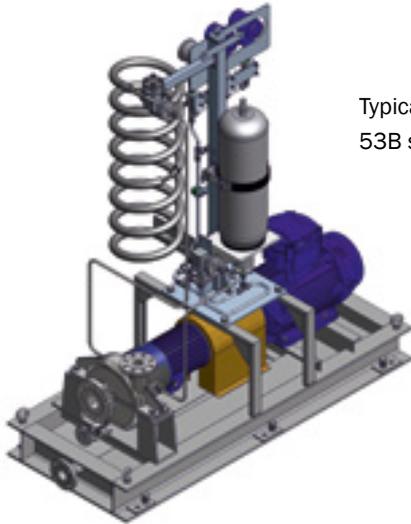
Design Flexibility

AxFlow's skid packages can be configured for specific site specifications, space constraints, and power supplies and can also be fully ATEX compliant, meeting or exceeding client requirements.

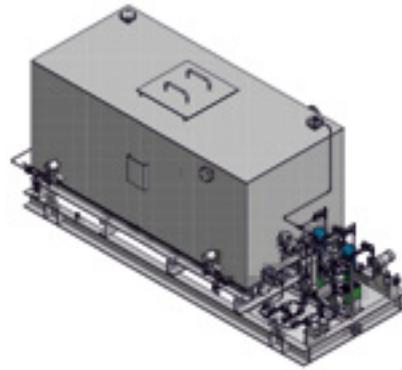


Methanol injection skid.



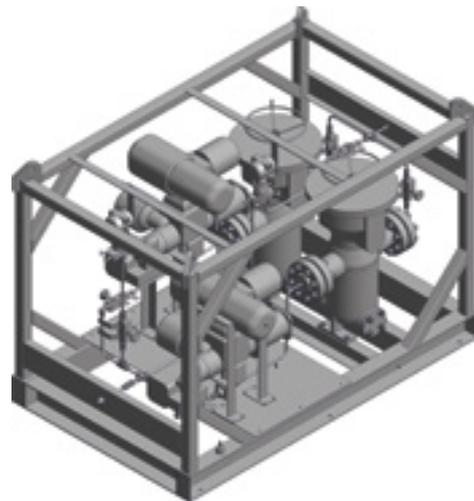


Typical offshore pump skid with an ISO 5199 pump and 53B support system for produced water.

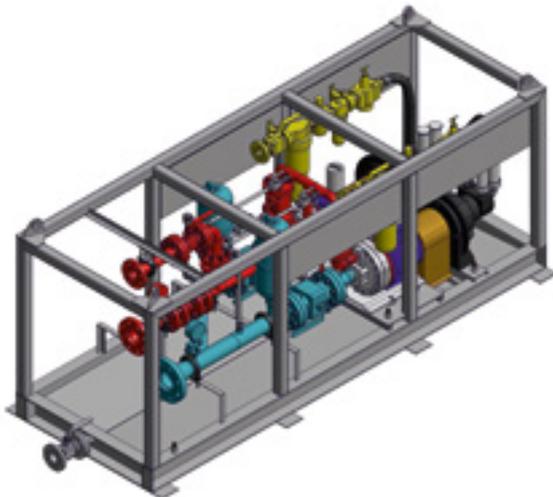


Options

AxFlow's skid packages include various drive options such as pneumatic, electric, hydraulic motors or diesel engines. Axflow specialise in complete skid design, including pump selection, on skid pipework, manifold design, instrumentation, valves and process control.



Filtration Skid with Duty and Standby Coarse Water Filters.



Hydracell Air Driven Pump skid for Hydrocarbon Service.

Traceability

All skids packages are available with full component traceability and a complete scope of Non-Destructive Examinations and Non-Destructive Tests to suit client requirements. Standard documentation and testing packages can be tailored to meet exact requirements.



Our Repair and Maintenance Capabilities

At some point during their life all pumps require maintaining or repairing.

At AxFlow we have Service Centres spread across the country equipped with an impressive array of engineering equipment and test facilities.



WHAT WE OFFER

All of our repair and maintenance work is fully documented as would be expected of a company such as AxFlow.

- Machining in-house
- Belzona coating
- Dynamic balancing
- Mechanical seal overhaul
- Metal spraying and fusion welded coatings
- Laser alignment
- Hydrostatic pressure testing
- Motor rewinding
- Hygienic pump repair
- The ability to re-engineer a wide range of pump components
- On site training of maintenance operatives





email: info@axflow.co.uk www.axflow.co.uk

Scotland

Unit 3, Harlaw Centre, Howe Moss Crescent,
Kirkhill Industrial Estate, Dyce, Aberdeen, AB21 OGN
Tel.: +44 (0)1224 729 367

Radstock

14 Haydon Industrial Estate
Radstock, BA3 3RD
Tel. + 44 (0)1761 433285

Huddersfield

Unit 9a, Fieldhouse Business Park, Old Fieldhouse Lane,
Huddersfield, HD2 1FA
Tel.: +44 (0)1484 543 649

Slough (Head Office)

820 Yeovil Road, Slough Trading Estate
Slough SL1 4JA
Tel.: +44 (0)1753 255 600

Durham

Unit 31, Evans Business Centre, Aycliffe Business Park,
Newton Aycliffe, County Durham, DL5 6ZF
Tel.: +44 (0)1325 327 322

fluidity.nonstop® is our promise and our commitment to offer service, product quality, performance and expertise the like of which has not been seen before. 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 bring you the best.
