

fluidity. nonstop

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING

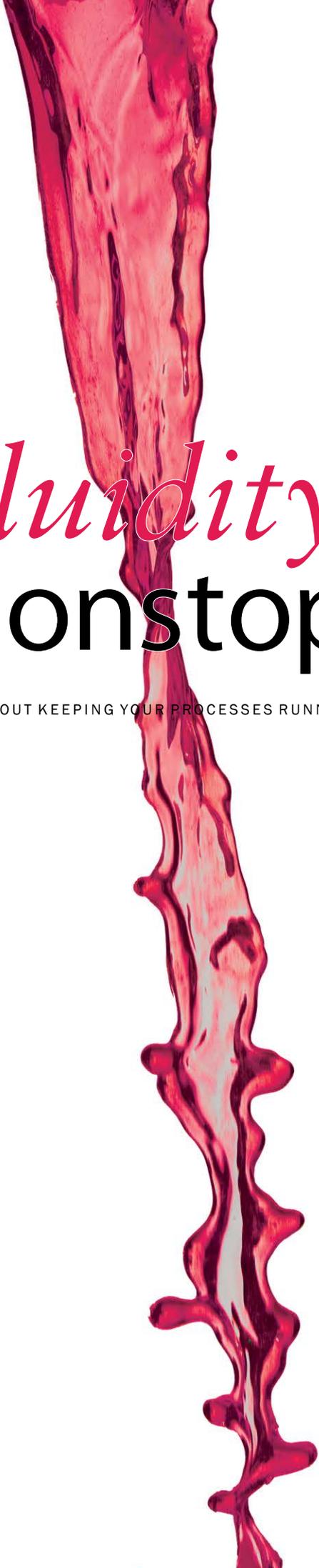


Magnetic Drive



Canned

 **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 along with South Africa, Australia and New Zealand.

In the UK AxFlow has over 50 years history operating from 4 locations across the country from which it supplies a large range of process pumps and a comprehensive pump service and repair package.



South Africa, Australia, New Zealand

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 magnetic drive pump range isn't just limited to centrifugal pumps but includes turbine, gear and vane pumps. Additionally, we are one of the biggest suppliers of canned pumps in the UK.

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. Gruppo Aturia absorbed the entire workforce of Caster Pumps several years which allows them to supply direct replacements for the majority of original caster models.



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 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.



Argal manufacture one of the most comprehensive portfolios of plastic pumps in the world that includes, mag drive, self priming and mechanically sealed FRP ranges.

WERNERT-PUMPEN

Wernert Pumpen developed the first plastic centrifugal pump back in 1927. Since then, Wernert have become word leaders in the manufacture of plastic lined pumps.

	Materials	Seal Type	ATEX	Self Priming	Max m ³ /hr	Max Diff Pressure	Max System bar	Max °C	Min °C	Max cP	Page
Centrifugal Pumps											
Basis	Argal	PP,PTFE			4	7 m	6	80	-20	150	2
Prima	Argal	PP,PTFE	☹️		12	12 m	6	80	-20	150	2
Route	Argal	PP,PTFE	☹️		50	48 m	10	100	-20	150	3
PCM	Aturia	PP,PVDF	☹️		100	45 m	10	80	-20	150	3
PCM-SP	Aturia	PP,PVDF	☹️	☑️	70	38 m	10	80	-20	150	3
SDM	Aturia	SS,CS,DX, SDX,HST,TI,MONEL	☹️		27	20 m	25	200	-50	150	4
NDM	Aturia	SS,CS,DX, SDX,HST,TI,MONEL	☹️		200	100 m	25	300	-50	300	4
Frontiera	Argal	PP,PTFE	☹️		90	42 m	10	100	-20	150	5
NM	Wernert	PE,PP,PTFE,PVDF	☹️		90	75 m	10	185	-20	150	5
SMKM-M	Aturia	CS,SS,DX,SDX,TI	☹️		1400	400 m	60	450	-20	300	6
KSMKM	Aturia	CS,SS,DX,SDX,TI	☹️		2000	400 m	25	450	-20	300	7
MCAM	Hermetic	SS,Alloy 20,Hast	☹️		47	200 m	25	220	-40	200	9
CN-CNF-CNK	Hermetic	SS,CI,HST,DX,CS	☹️		1600	270 m	1200	450	-120	50	12
CAM	Hermetic	SS,CI,HST,DX,CS	☹️		300	1000 m	1200	360	-120	50	12
CNP-CNPF	Hermetic	SS,CI,HST,DX,CS	☹️		1000	300 m	1000	425	-120	50	13
TCN - TCAM	Hermetic	SS,CI,HST,DX,CS	☹️		1600	1200 m	1200	250	-160	50	12
Turbine											
Elk	Argal	PP,PTFE	☹️	☑️	22	3 m	10	100	-20	150	9
Rhino	Argal	PP,PTFE	☹️	☑️	17	20 m	10	100	-20	100	9
PTM	Aturia	PP,PVDF	☹️		15	55 m	6	80	-20	150	8
PTM-SP	Aturia	PP,PVDF	☹️	☑️	12	50 m	6	80	-20	150	8
STM	Aturia	SS,CS,DX, SDX,HST,TI,MONEL	☹️		10	90 m	100	350	-50	150	7
SDTM	Aturia	SS,CS,DX, SDX,HST,TI,MONEL	☹️		12	170 m	100	350	-50	150	7
Vane Pumps											
SVM	Aturia	SS,CS,DX, SDX,HST,TI,MONEL	☹️	☑️	8	13 bar	350	300	-50	200	10
Gear pumps											
Isochem	Pulsafeeder	SS,Alloy 20,Hast	☹️	☑️	220	14 bar	14	232	-50	11,000	10
Eclipse	Pulsafeeder	ETFE,PVDF	☹️	☑️	8	11 bar	11	93	-50	11,000	11
Envirogear	Maag	SS,CS,,DI	☹️	☑️	35	14 bar	14	260	-50	50,000	11



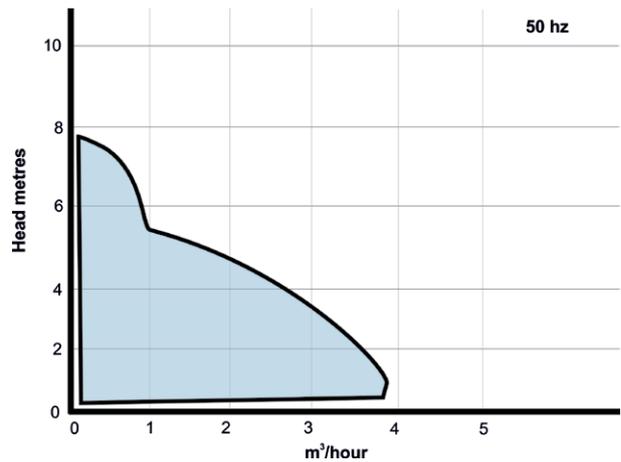
Magnetically Driven

Basis

Small recirculation pumps identical in dimension to Iwaki pumps and available with 50/60 hz UL approved motors making them ideal for OEM applications.

Alternative motors are also available on request.

- PP
- ETFE
- PTFE
- Ceramic
- Viton



- No mechanical seals to leak or service.
- Chemically resistant.
- Threaded or hose connections.
- Simple design.
- DC motors available.

Corrosive Liquids

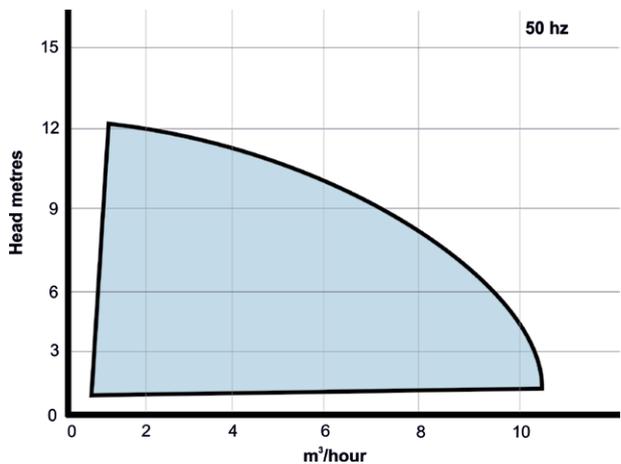


Prima

A suite of magnetically driven pumps with three internal configuration of construction to cater for applications that range from clean water, waste water and slightly abrasive liquids, strong alkali and acid solutions.

ETFE version ATEX rated.

- PP
- ETFE
- PTFE
- Carbon
- SiC
- Ceramic
- EPDM
- Viton
- FEP



- No mechanical seals to leak or service.
- Chemically resistant.
- Threaded or flanged.
- Strong Neodymium magnets.

Corrosive Liquids



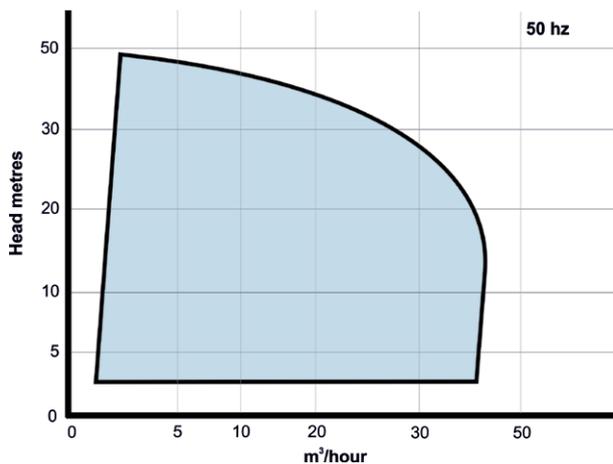


Magnetically Driven

Route

Magnetically driven and mechanically sealed pumps able to handle a wide selection of chemical transfer duties. They are available with an option that protects them against dry running and an external stainless steel support to improve the robustness of the casings.

- PP
- ETFE
- PTFE
- Carbon
- EPDM
- Viton
- FEP



Corrosive Liquids

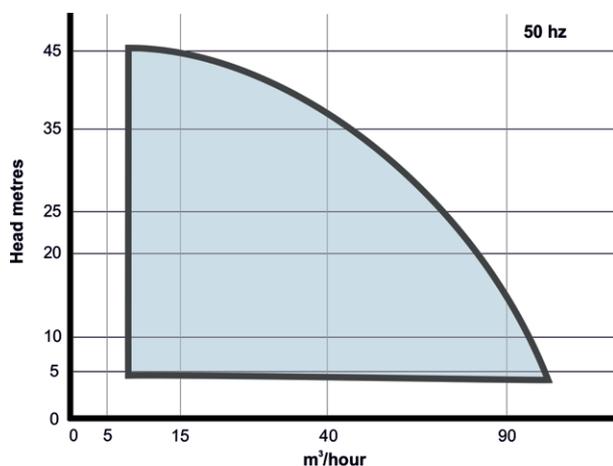
- No mechanical seals to leak or service.
- Chemically resistant.
- BSP, NPT threads.
- ISO, ANSI and JIS flanges.
- PP - PVDF.



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



Self Priming
 Corrosive Liquids

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



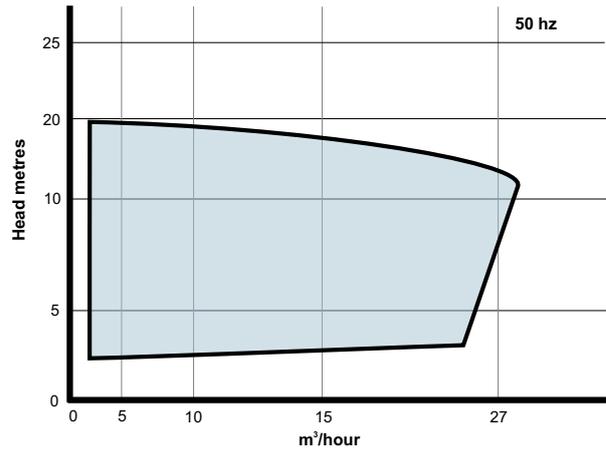


Magnetically Driven

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.

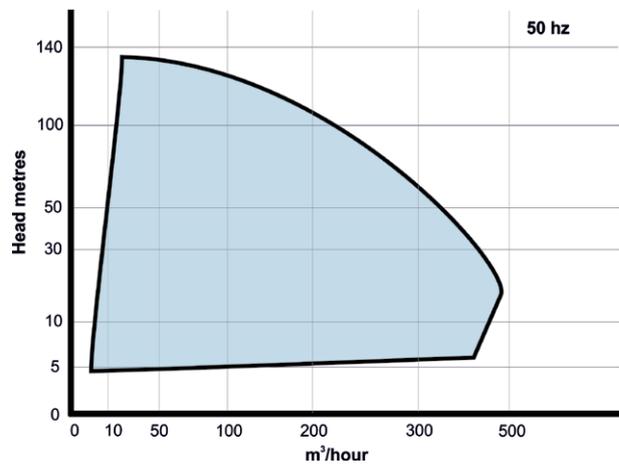
- Corrosive Liquids
- Refrigerants



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
- Titanium



- 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.

- Corrosive Liquids
- Refrigerants





Magnetically Driven

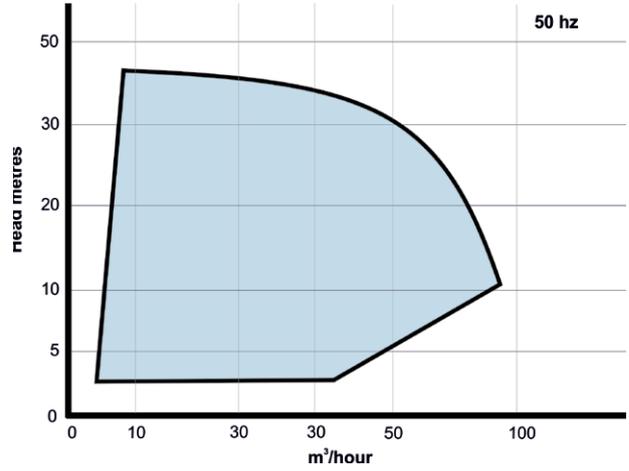
Frontiera

A suite of magnetically driven and mechanically sealed pumps. All components in contact with the pumped liquids are realised in PP or E-CTFE and the pump is covered with a solid armour made of AISI 316 for making the pump more robust and chemically more resistant.

- PP
- ETFE
- EPDM
- Viton
- FEP



Corrosive Liquids



- No mechanical seals to leak or service.
- Chemically resistant.
- Threaded or flanged.
- Can be mounted vertically.
- PP - PVDF.



NM

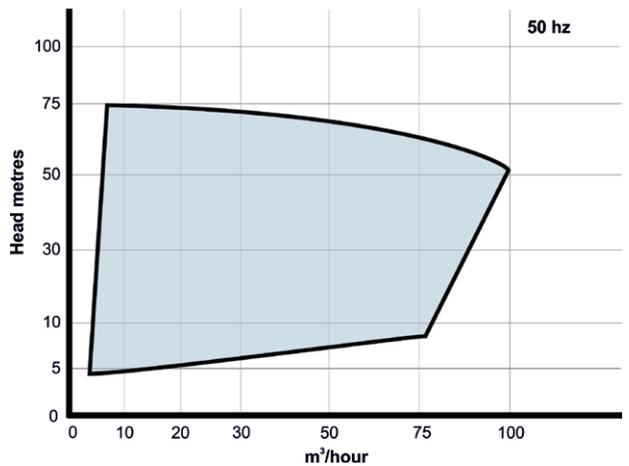
ISO 2858 plastic lined pumps designed to convey aggressive, abrasive and toxic liquids. They are designed around a solid pump casing which results in a particularly robust construction. The mechanically sealed pumps are able to handle abrasive liquids.

- PTFE
- PE
- PP
- PVDF



Corrosive Liquids

Abrasive Fluids



- Thick-Walled casing and liners.
- Fully metal clad enclosure.
- Sealed for life roller bearings.
- Semi-open or closed impeller.
- PE - PVDF - PP - PTFE.



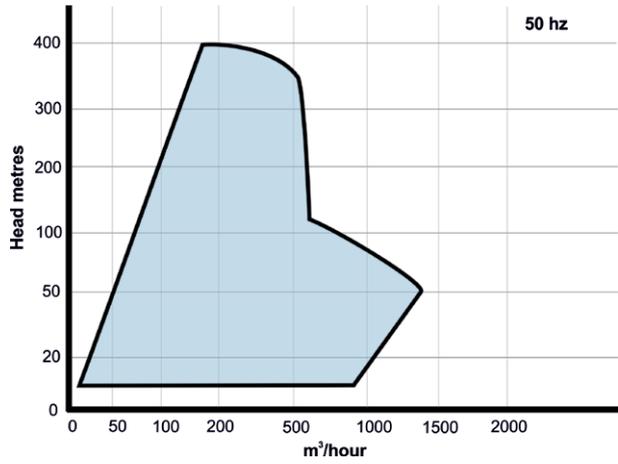


Magnetically Driven

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.

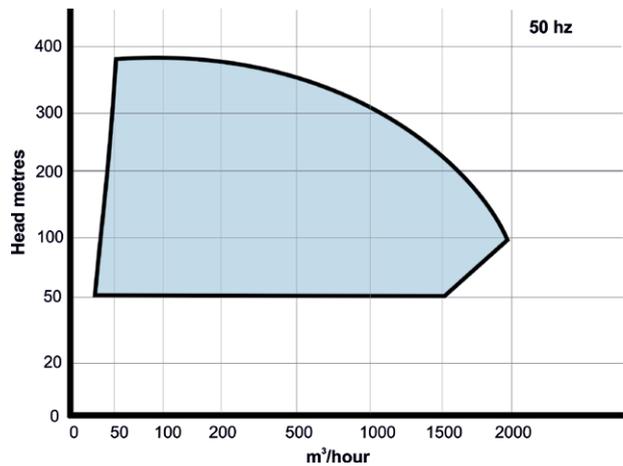
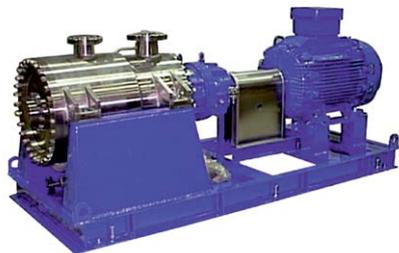
- Corrosive Liquids
- Refrigerants



KSMKM-M

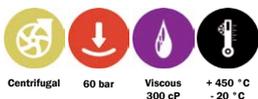
A range of single stage and two stage process pumps to API 685 BB2. Thrust is balanced by means of holes and wear rings in the back side of the impeller, residual thrust is absorbed by a double angular contact ball bearing selected for safe operation up to 100,000 hours.

- Carb Steel
- St Steel
- Dup SS
- Super Dup



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

- Corrosive Liquids
- Refrigerants





Magnetically Driven

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. Comply to API 685.

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



- Corrosive Liquids
- Refrigerants
- Low shear

Turbine

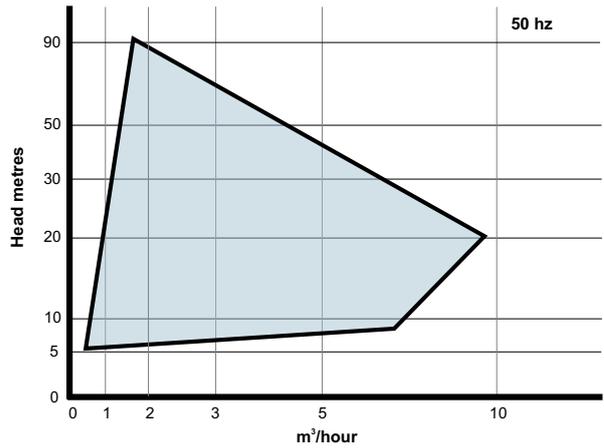
100 bar

Viscous
150 cP

+400 °C
-20 °C

ATEX
Certified

API 685



- 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.
- Can be mounted vertically.
- Directly replace Caster MTA pumps.

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. Comply to API 685.

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



- Corrosive Liquids
- Refrigerants

Turbine

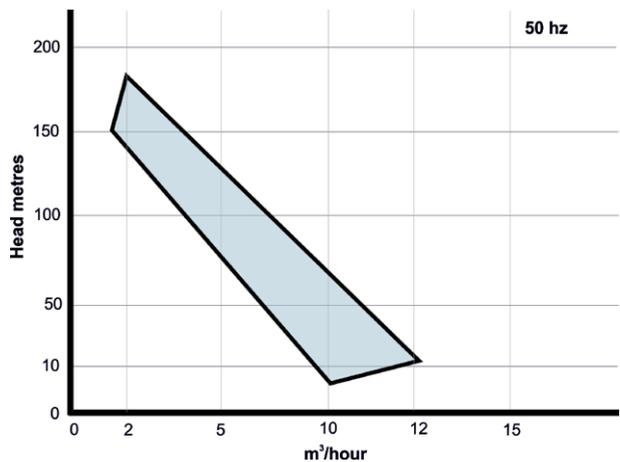
100 bar

Viscous
150 cP

+400 °C
-20 °C

ATEX
Certified

API 685



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- Can be vertically mounted.
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- Threaded, Tri-Clamp, PN or ANSI flanges.
- Can be mounted vertically.
- Directly replace Caster MTA pumps.



Magnetically Driven

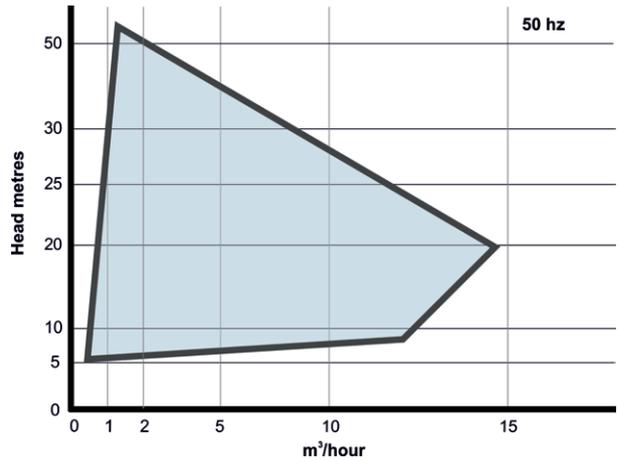
PTM

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



- Corrosive Liquids
- Low shear



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

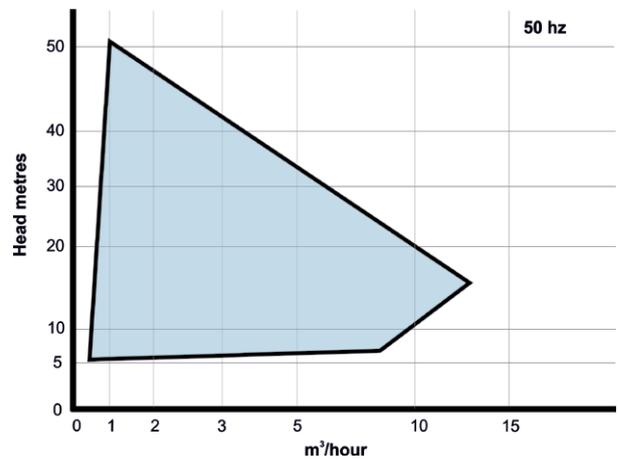
PTM-SP

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



- Corrosive Liquids
- Self Priming
- Low shear



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



Magnetically Driven

Argal Self Priming Pumps

ELK mag drive pumps with a reversible flow and a priming capability of up to 6m. Fully reversible

RHINO mag drive pumps with a priming capability of up to 6m. PP and ETFE .

- PP
- PVDF
- ETFE
- PVC

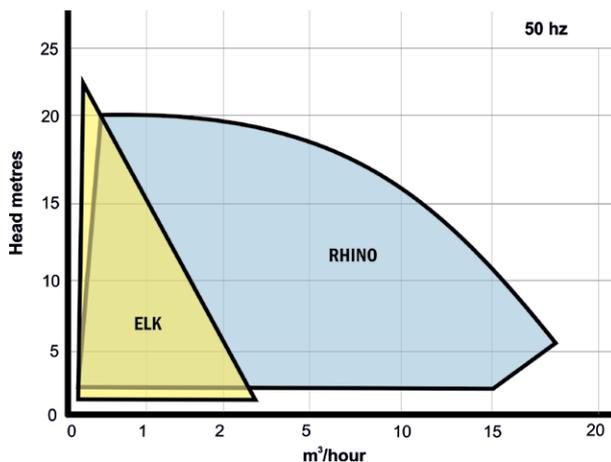


ELK



RHINO

- Corrosive Liquids
- Self Priming



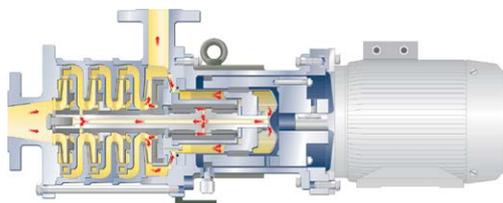
- Thick-Walled casing parts.
- Can lift liquids with an SG of 2 kg/dm³
- A range of sealing types.
- PP - PVDF - PVC - ETFE.
- Reversible flows.



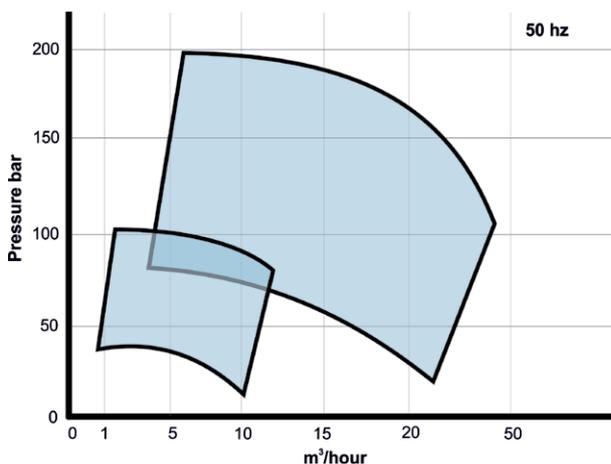
MCAM

High performance multi-stage pumps with a sophisticated internal circulation flow within the pump chamber to reduce axial thrust by returning fluid down the pump shaft to the front sections of the pump.

- St Steel
- Hastelloy



- Corrosive Liquids



- Close or long coupled.
- Reduced internal wear.
- Integrated temperature and level sensors.
- Low noise operation.
- ATEX to T6.





Magnetically Driven

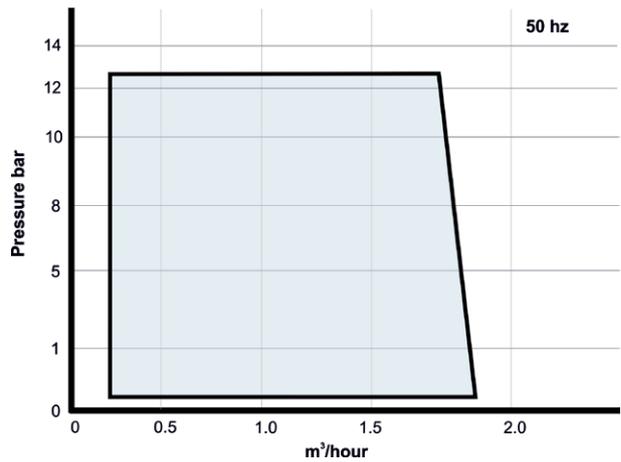
SVM-SVP

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



- 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.

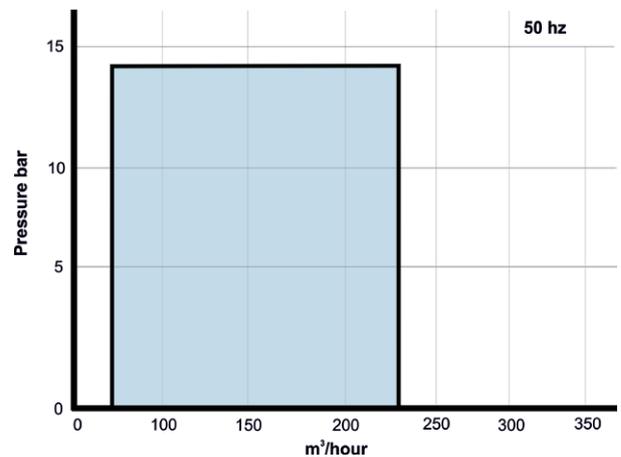
Isochem

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



- Corrosive Liquids
- Self Priming
- Low shear



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



Canned

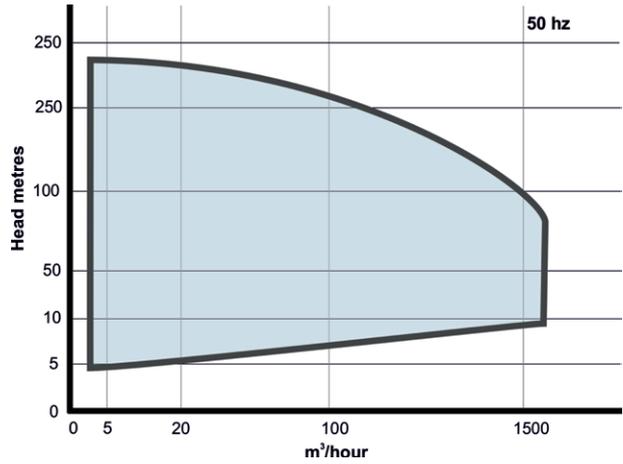
CN-CNF-CNK

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
- Duplex



- Corrosive Liquids
- Refrigerants



- 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



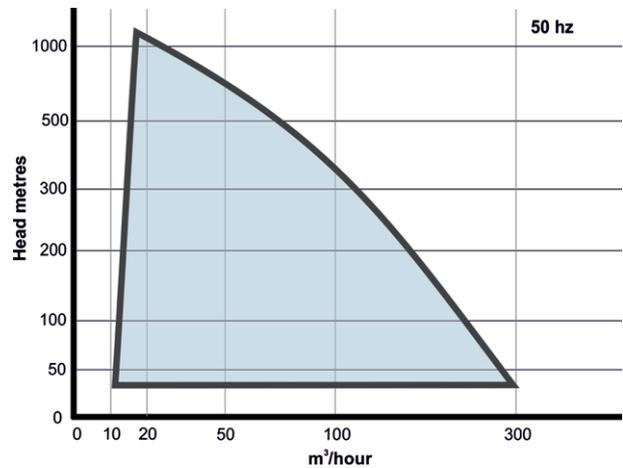
CAM - CAM Tandem

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



- Corrosive Liquids
- Refrigerants



- 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.



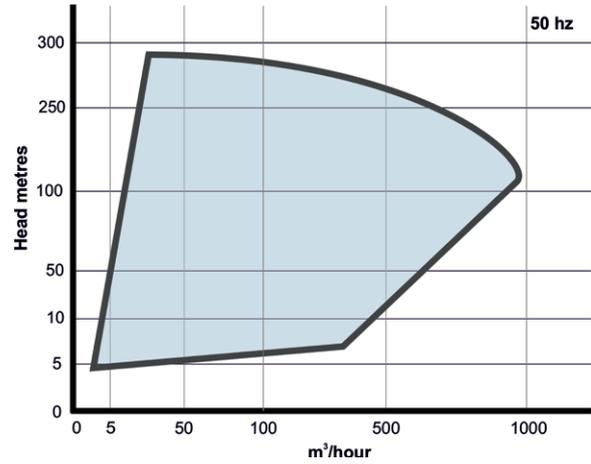
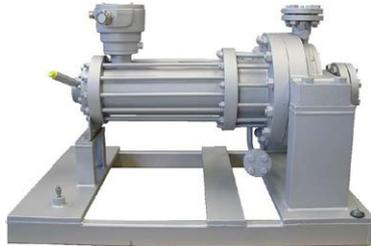


Canned

CNP-CNPF-CNPF

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
- Duplex



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

- Corrosive Liquids
- Refrigerants

 Canned
 Viscous
 150 cP
 +425 °C
 -120 °C

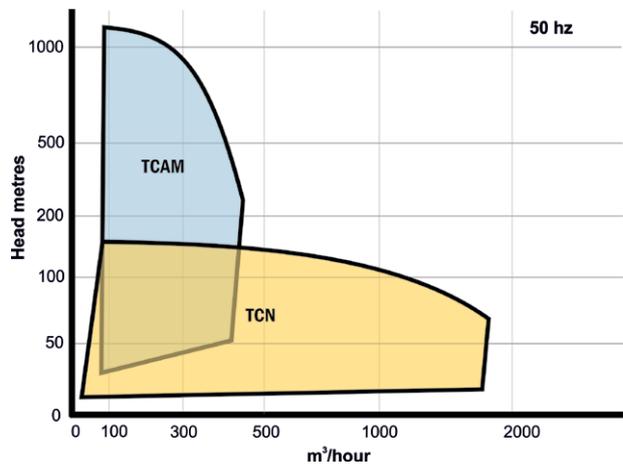
 ATEX Certified
 API 685

TCN - TCAM

Hermetic's vertical canned pumps eliminates the rotating shaft used by traditional line shaft pumps. They also provide exceptional liquid containment and require much less space above the mounting plate.

The use of a vertical canned pump eliminates any vertical line shaft bearings.

- Steel
- St Steel
- Hastelloy
- Dup St St

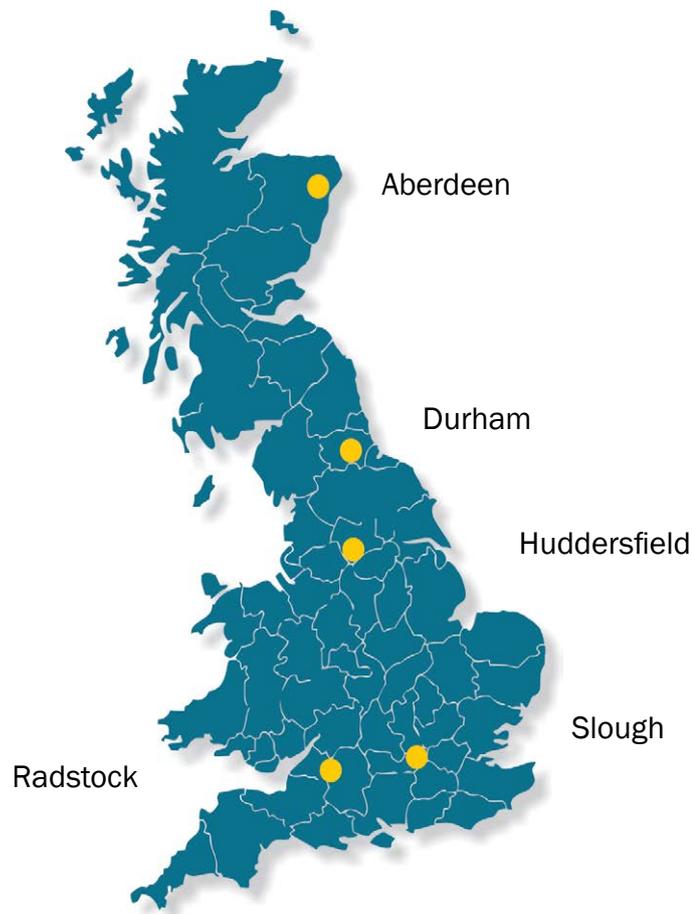


- Double containment of liquid.
- Extremely long service life.
- Reduced footprint.
- Simplified installation.
- ATEX certified up to T6.
- Reduced instrumentation.

- Corrosive Liquids
- Refrigerants

 Canned
 Viscous
 150 cP
 +250 °C
 -160 °C

 ATEX Certified



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