PUMP BUSINESS UNIT

Someflu
Corrosion-resistant centrifugal pumps

Chabot
PROPELLER PUMPS

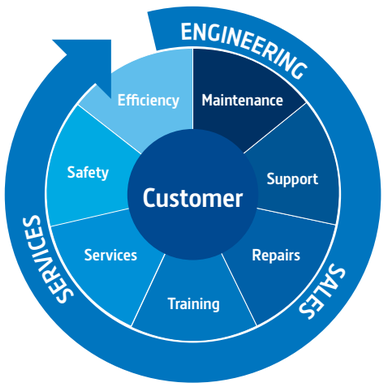
> SOMEFLU

SOMEFLU is one of the leading manufacturers, specialised in design, development and manufacture of corrosion and abrasion resistant pumps, meeting highest quality standards. SOMEFLU pumps are designed to transfer corrosive, abrasive and slurry fluids in the most challenging conditions, providing low life cycle costs with excellent operating reliability.

Our mission

SOMEFLU works closely in partnership with the customer to find the most efficient pumping solutions and to provide the best services from development phase to start as per the technical specifications of your application.

Our know-how



Pumps since 1962

Founded in France in 1962, SOMEFLU is an industrial business company that designs and builds pumping solutions in a wide range of high performance engineered plastics such as PP, HDPE, UHMW-PE, PVDF, SOMEDUR®, etc. and stainless steels.

Backed with more than 60 years of innovation and development experience, SOMEFLU has become a key stakeholder in the fluid handling sector in France. Through our ISO 9001:2008 certification, our entire manufacturing process is quality controlled, ensuring our customers receive outstanding quality and reliable equipment.

Our company is based near Paris and through our partners network, we are actively present globally, providing highest level of personalised and quality services, in close proximity to our customers.

> ENGINEERING & SERVICES

The ENGINEERING department shares with our customers its experience acquired through successful projects. We support you to find the best pumping solutions according to your specifications and guarantee the efficiency, reliability and safety of your installation.

Our expertise

- Personalised supports
- Efficiency of installations
- Dimensional equipement project
- Power and loss calcultations
- Customised constructions

With innovative and high technology tools, we design and manufacture your pump according to your technical specifications.

- Computational fluid dynamics (CFD)
- Hydraulic efficiency calculation

Our engineers and technicians of the SERVICES department are at your disposal to support you in the operations with our certified distributors network and we ensure our proximity with our customer to guarantee the quality of our services.

Commissioning

- Operation performance controls
- Alignment tests and settings
- Start-up and commissioning supervision
- Complete report
- Customised training

Maintenance and repairs

- On-site assistance
- Repair & maintenance
- Providing expertise and reliability checks
- Flow metering

SOMEFLU provides a large range of pumps manufactured following your specifications. Our focus, to guarantee the best solution on the most critical processes.

Materials

The hydraulic parts are made:
In polymers.

According to your application we offer the following materials.

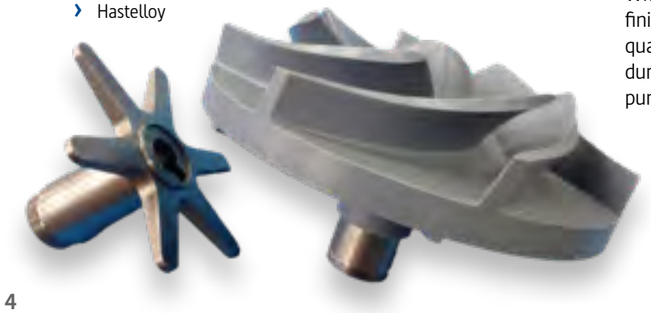
- PP or PP-EL
- PE-HD or PE-EL
- PVC
- PVDF or PVDF-EL
- PTFE
- PFA
- SOMEDUR® for abrasive fluids

All the wetted parts are compatible with liquid pumped.

In stainless steels.

The hydraulic parts are designed and manufactured in several alloys selected to suit your application.

- AISI 316 L / 1.4404
- AISI 904 L / 1.4939
- Hastelloy



Sealing

SOMEFLU pumps can be fitted with different seals:

- Single mechanical seal
- Double mechanical seal
- Cartridge mechanical seal

A range of options are available: injection, standstill flushing, grease bearing, etc...

Magnetic drive pumps:

Sealing solution for corrosive and hazardous fluids without leak to ensure the reliability and safety of your installation.

Sealing system in conformity with:

- Machinery Directive 2006/42/EC annex I
- Electromagnetic Compatibility Directive 2004/108/EC annex I
- Low Voltage Directive 2006/95/EC annex III B

Moulding department

Polymer sourcing and moulding Someflu's raw polymer stocking and sourcing network, enables to meet specification and delivery constraints for finished pumps, wether for our distribution network or for customer projects.

With APLAST support, Someflu selects the best semi-finished raw materials to manufactur with the highest quality the pump parts ensuring the dimensional stability during the machining and, in fine the reliability of the pumps during the operations.

CERTIFIED SOMEFLU QUALITY: From design to delivery and start-up, SOMEFLU guarantees the quality of equipment and services to ISO 9001/2008 certification standards.

PLASTIC HYDRAULIC SYSTEM

Our range of centrifugal pumps is built in massive polymers following our manufacturer standards or normalised.

According to your application, the specific design guarantees a high resistance to corrosion, abrasion and wear.

- Flow (Q): from 1 to >2000 m³/hr
- Height (H): from 0 to 90 m
- Temperature (T): from -40°C to +140°C
- Pressure (p): from 0 bar to 16 bar
- Size (DN): from 20 to 300 mm

SEALED OR MAGNETIC DRIVE HORIZONTAL PUMPS

> Series NP

Normalised centrifugal pump, designed to transfer corrosive and abrasive fluids on critical applications.

> Series ECO

Standardized close-coupled centrifugal pumps with high reliability and performances.

> Series HMP

Close-coupled centrifugal pumps customised according to your application to ensure the highest and best efficiency.

VERTICAL PUMPS

> Series VP

Vertical centrifugal pumps derived from standardised horizontal pumps (NP). Close-coupled vertical centrifugal pumps of cantilever or standard type, designed for the continuous pumping of corrosive fluids.

STAINLESS STEEL HYDRAULIC SYSTEM

Our range of metallic centrifugal pumps is manufactured with the highest quality of material following our manufacturer standards and according to your application with sealing systems by single, double mechanical seal or magnetic drive.

- Flow (Q): from 1 to 300 m³/hr
- Height (H): from 0 to 100 m
- Temperature (T): from -50°C to +110°C
- Pressure (p): from 0 bar to 16 bar
- Connection (DN): from 32 to 125 mm

SEALED OR MAGNETIC DRIVE HORIZONTAL PUMPS

> Series NI

Series NI Normalised centrifugal pump requiring stainless steel construction for corrosive applications.

> Series HMI

Normalised, close-coupled, stainless steel pumps – reliable and high performance, designed for the most critical conditions and requirements.

VERTICAL PUMPS

> Series VI

Close-coupled vertical centrifugal pumps of cantilever or standard type, designed for the continuous pumping of corrosive fluids.

THERMOPLASTIC PROCESS PUMP

NP with mechanical seal ISO 2858

OVERVIEW

The centrifugal pumps of the NP range are designed for pumping corrosive or erosive fluids. They are equipped with mechanical seal specially created for the highest industrial and technological requirements.

ADVANTAGES

- ISO 2858 Dimensions
- ISO 9906 Tested with test report provided
- Flanges: ISO PN 16 or ANSI B16.5
- Designed to resist to the most corrosive atmospheres
- 20 years old pumps still running

APPLICATIONS

- Highly concentrated acids (98% H_2SO_4, 36% HCl, 70% HF)
- Waste water treatment
- Odor control / Gas scrubber
- Steel industry (pickling, surface treatment, ...)
- Chemical industry
- Fertilizer
- Mining
- Seawater pumping

RAW MATERIALS

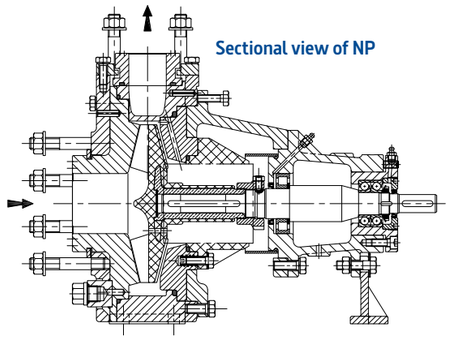
All wetted parts are machined from solid blocks of plastic for the ultimate in robust construction.
No metallic component is in contact with the pumped fluid.

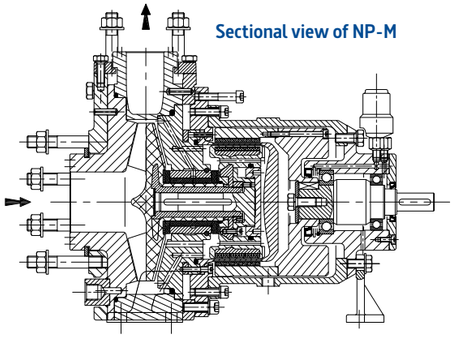
WETTED PARTS	O-RINGS	SEALS
PP / PP-EL	EPDM	SiC / SiC
PVDF / PVDF-EL	FKM	SiC / C
SOMEDUR® / PEHD-EL	FFKM	SiC / SiC + SiC / C
PEEK		

PERFORMANCES

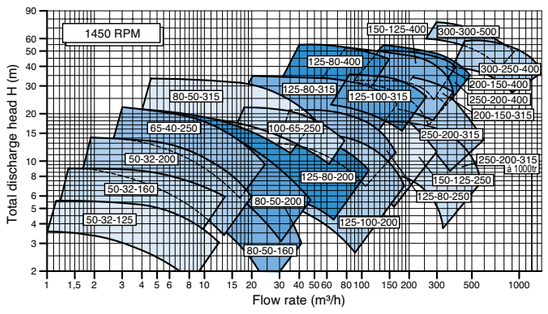
Available in 50Hz or 60Hz:

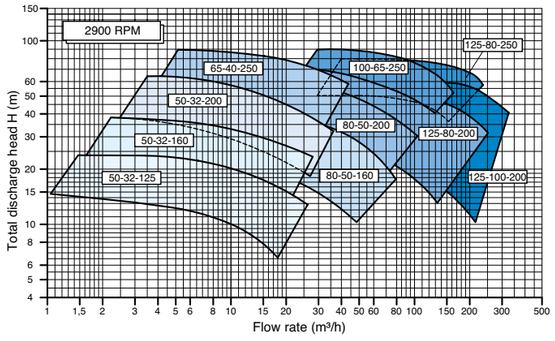
- Flow rates up to 1500 m³/h (6600 GPM) at 50Hz
- Total differential head up to 90 mlc (295 ft) at 50Hz
- Temperature range from -60°C to 200°C (-75°F to 400°F)





DIAGRAMS



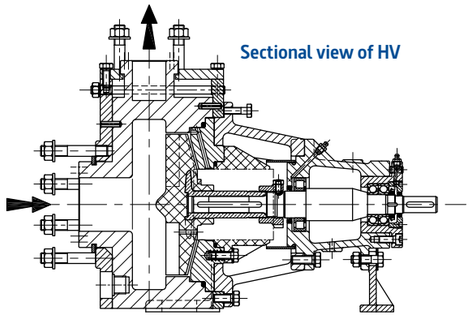


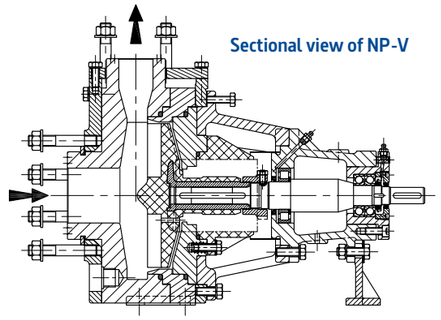
NON-METALLIC NORMALIZED SERIES

CONSTRUCTION VARIANTS

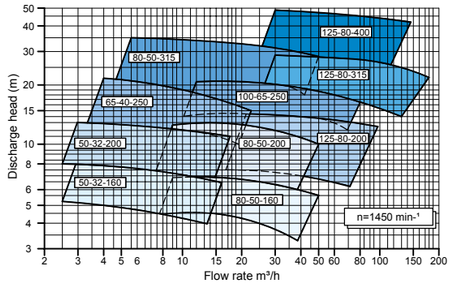
NP-V / HV

These pump series are designed for pumping corrosive fluids that are highly abrasive or highly charged with suspended particles. HV serie pumps have a tangential outlet volute and a vortex impeller to enable the passage of solid particles.

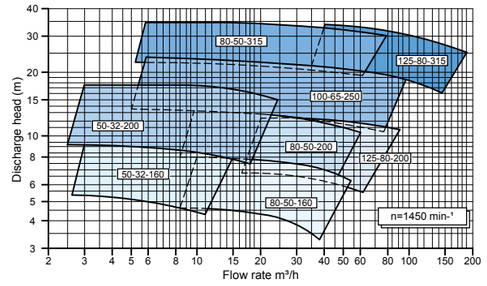




HV DIAGRAM



NP-V DIAGRAM



CLOSE COUPLED PUMP WITH ISO 2858 CONNECTIONS

All the NP, NP-M, NP-V and HV pumps can be made close coupled up to a drive power rating of 15 kW according to their service conditions.

ATEX STANDARDS

The NP range is available for ATEX explosion-proof atmospheres:

- Plastics mixed with carbon to conduct static electricity, like PP-EL (polypropylene electro-conductive)
- Ex II 2/3 G/GD c IIB/IIC T4 (others upon request)
- Voluntary certification INERIS (Public French Certification Organization)

CARTRIDGE MECHANICAL SEAL

SOMEFLU has developped its own cartridge mechanical seal for a friendly maintenance. This one is pre-adjusted in our factory to make the installation easier.

A PVDF shaft sleeve protects the impeller in case of lubrication defect of both friction areas: maintenance costs reduction.

Depending on the fluid and the process, the mechanical seal can be designed with the following alternatives:

STANDARD SEAL

The cartridge seal is lubricated with the pumped fluid through openings located in the wetted parts:

- No external flushing needed
- No maintenance
- No adjustment (already adjusted during the manufacture)
- Easy dismantling and reassembly

FLUSHING

In case of particles and so abrasion, clean water is flushed to the seal friction faces. To minimize the flushing of clean water inside the process fluid, a throttle bush is located in the rear casing. The mechanical seal is lubricated with only one water inlet.

STANDSTILL FLUSHING

In case of crystallization or solids deposition, the mechanical seal is flushed with clean water every time the pump is stopped, to protect the seal friction faces (max. pressure 3 bar for some minutes).

GREASE FILLING

In case of crystallization or particles and if water can't be flushed inside the fluid process, this one can be filled up with grease. An input of lubricant (40 g) every 4000 hours is sufficient to maintain the efficiency of the grease filling. We also can install an automatic greaser.

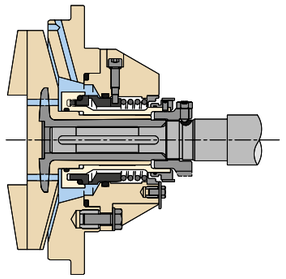
DOUBLE SEAL

In case of highly concentrated fluid, when absolutely no process fluid leakage can be accepted, double mechanical seal can be installed:

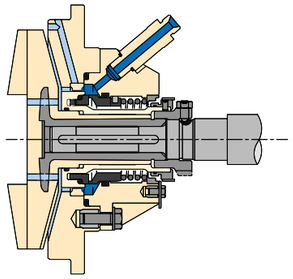
- On the fluid side: the mechanical seal is lubricated with the process fluid
- On the atmosphere side: the mechanical seal is lubricated with an external input of water.

In case of failing of the process side seal, due to a higher pressure of the outside inlet, there will be no fluid process leakage towards the outside.

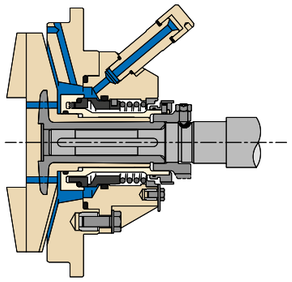
STANDARD SEAL



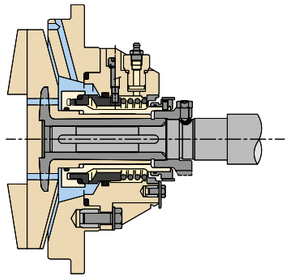
FLUSHING



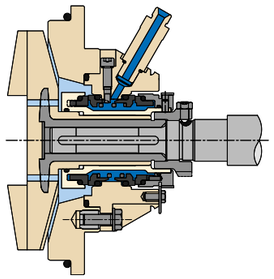
STANDSTILL FLUSHING



GREASE FILLING



DOUBLE SEAL



APPLICATIONS

SOMEFLU plastic pumps are being used in the most advanced industries: nuclear power, chemicals, petroleum etc.
SOMEFLU is also a valuable partner of environmental companies.

USES

- Sea water (aquarium - sea water thalassotherapy - nuclear power plants - desalination) (1)
- Installations for the neutralization of gas from incineration units (2)
- Lifting and transfer of chemicals, effluents etc. (3)
- Petrochemicals (4)
- Installation for the deodorization of gas from treatment processes (5 & 6)
- Surface treatment
- Metallurgy (pickling, storage of baths etc.)

1

2

3

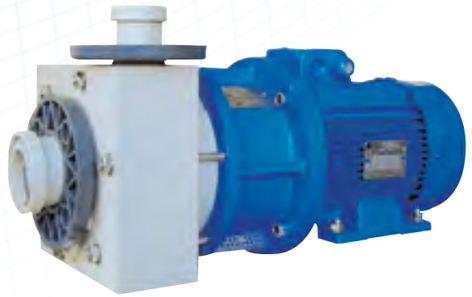
4

5

6

THERMOPLASTIC CLOSE COUPLED PUMP

ECO with mechanical seal



OVERVIEW

The centrifugal pumps of the ECO range are designed for pumping corrosive fluids. They are equipped with mechanical seal specially designed for the highest industrial and technological requirements.

ADVANTAGES

- ISO 9906 tested with test report
- Flanges: ISO PN 16 or ANSI B16.5
- Designed to resist to the most corrosive atmospheres
- Simple but robust design for the easiest maintenance
- These models are still in operation since 2000

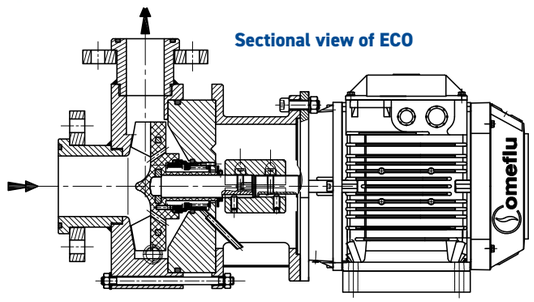
APPLICATIONS

- Odor control / Gas scrubber
- Waste water treatment
- Sea water for aquariums
- Highly concentrated acids

RAW MATERIALS

All wetted parts are machined from solid blocks of plastic for the ultimate in robust construction. No metallic component is in contact with the pumped fluid.

WETTED PARTS	O-RINGS	SEALS
PP / PP-EL	EPDM	SiC / SiC
PVC	FKM	SiC / C
PVDF / PVDF-EL		



Sectional view of ECO

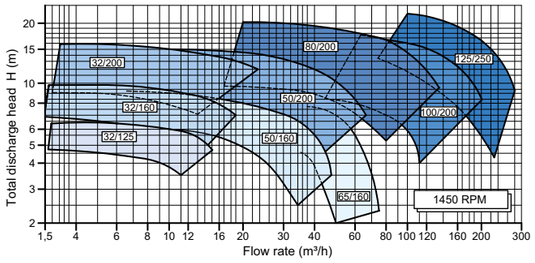
ECO 125/250

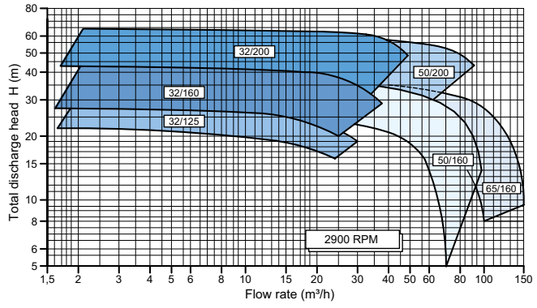
PERFORMANCES

Available in 50Hz or 60Hz:

- Flow rates up to 350 m³/h (1550 GPM) at 50Hz
- Total differential head up to 70 mlc (230 ft) at 50Hz
- Temperature range from -20°C to 90°C (0°F to 200°F)

DIAGRAMS



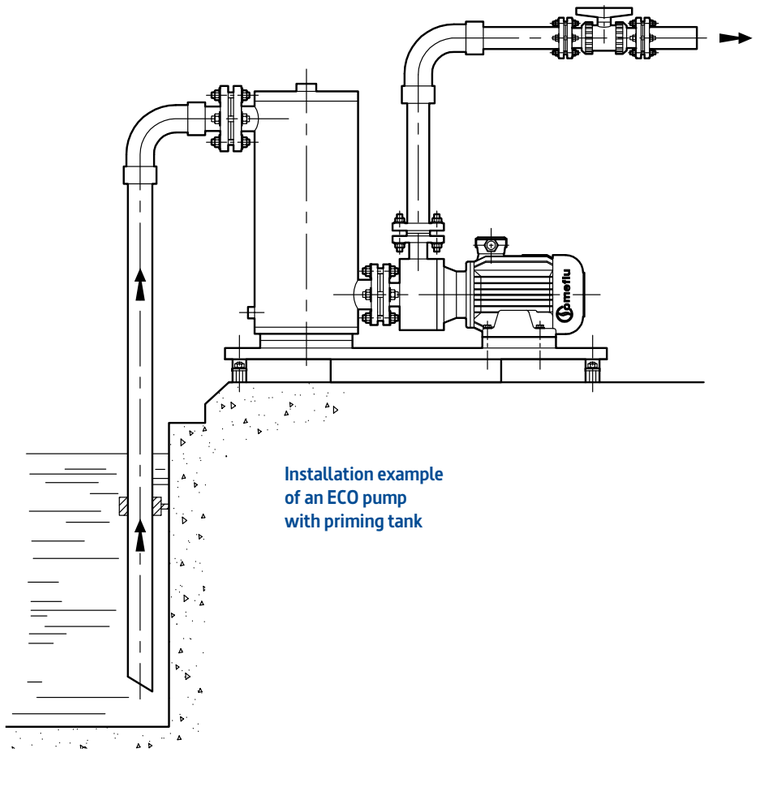


PRIMING TANK

The series of horizontal single-stage centrifugal pumps are designed to be installed with suction head. With suction lift, they have priming tanks specially designed for very severe operating conditions.

MOTORS

ECO pumps have normalized motors (to CE standards) with power ratings ranging from 2.2 kW to 18.5 kW and rotation speeds from 1450 to 2900 min^{-1}.



Installation example of an ECO pump with priming tank

USES

- Surface treatment units
- Waste water treatment
- Gas scrubbing units
- Deodorizing units
- Lifting and transfer of all acid and alkaline solutions
- Sea water for aquariums and thalassotherapy

ATEX STANDARDS

The ECO range is available for ATEX explosion-proof atmospheres:

- Plastics mixed with carbon to conduct static electricity, like PP-EL (polypropylene electro-conductive)
- Ex II 2/3 G/GD c IIB/IIC T4 (others upon request)
- Voluntary certification INERIS (Public French Certification Organization)

THERMOPLASTIC CLOSE COUPLED PUMP

HMP with mechanical seal or magnetic drive

HMP-N/S

HMP-M

OVERVIEW

The centrifugal pumps of the HMP-N/S range are designed for pumping corrosive fluids. They are equipped with mechanical seal specially designed for the highest industrial and technological requirements.

ADVANTAGES

- Designed to resist to the most corrosive atmospheres
- Maintenance-friendly
- Easy dismantling
- Single or double mechanical seal

APPLICATIONS

- Transfert of corrosive fluids
- Transfert of effluents
- Odor control
- Steel industry (pickling, surface treatment...)
- Sea water for aquariums, thalassotherapy

RAW MATERIALS

All wetted parts are machined from solid blocks of plastic for the ultimate in robust construction.
No metallic component is in contact with the pumped fluid.

WETTED PARTS	O-RINGS	SEALS
PP / PP-EL	EPDM	SiC / SiC
PEHD-EL	VITON®	SiC / C
PVC	CHEMRAZ®	
PVDF / PVDF-EL		PTFE / Alumina

ATEX STANDARDS

The HMP-N/S range is available for ATEX explosion-proof atmospheres:

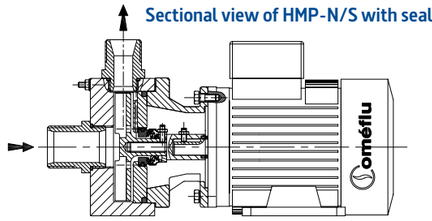
- Plastics mixed with carbon to conduct static electricity, like PP-EL (Polypropylene electro-conductive)
- Ex II 2/3 G/GD c IIB/IIC T4 (Others upon request)
- Voluntary certification INERIS (Public French Certification Organization)

PERFORMANCES

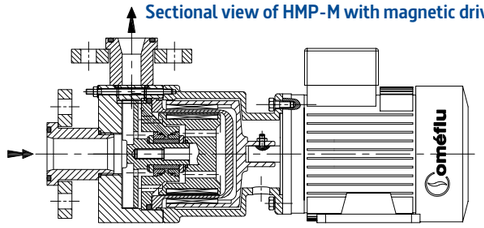
Available in 50Hz or 60Hz:

- Flow rates up to 80 m³/h (350 GPM) at 50Hz
- Total differential head up to 80 mcl (260 ft) at 50Hz
- Temperature range from 0°C to 80°C (30°F to 180°F)

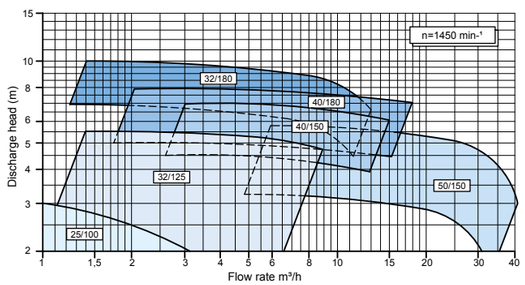
Sectional view of HMP-N/S with seal

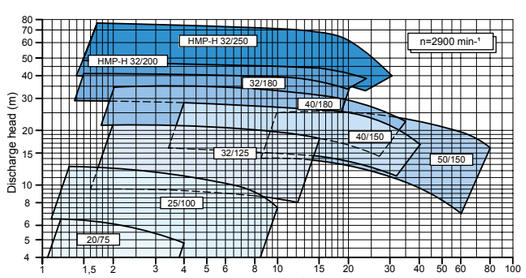


Sectional view of HMP-M with magnetic drive



HMP DIAGRAMS





PRIMING TANK

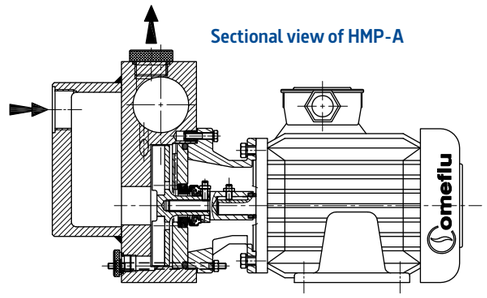
HMP pumps may be installed with a foot valve near the suction side. As a variant, they may be fitted with a priming tank.
Such installations represent an alternative for vertical pumps.

HMP with priming tank

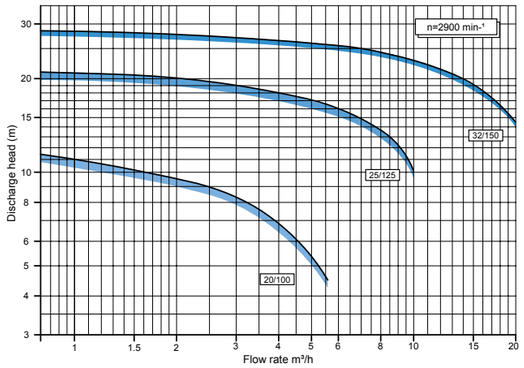
HMP-A SELF PRIMING

HMP-A pumps are built using HMP pump as the basis, and have a volute with an integrated priming tank.
They are designed to carry clear or slightly charged liquids.

Sectional view of HMP-A



HMP-A DIAGRAM



CONNECTIONS

As required, the pumps may be fitted with flanges, threaded end pieces or fluted end pieces.

MOTORS

HMP pumps are fitted with normalized motors from renowned manufacturers.

NORMALIZED NFE 44121 - ISO 2858 - ISO 5199 - DIN 24256

NI with mechanical seal or magnetic drive

OVERVIEW

The horizontal, single stage centrifugal pumps of NI range are designed for pumping liquids requiring stainless steel construction, for the highest industrial and technologic requirements.

ADVANTAGES

Designed to resist to the most corrosive atmospheres.
Impeller wetted parts moulded over a steel insert, by our own moulding department:

- Robustness of the metal
- Corrosion resistance of the plastic material
- Maintenance-friendly:
  - Coupling in two parts for a very easy dismantling
  - Identical mechanical seal for the whole NI range
  - No aligment necessary.
- Impossible to unscrew the impeller in case of reverse running

APPLICATIONS

- Industrie alimentaire, pharmaceutique, nucléaire
- Laboratoires
- Transfert de solutions agressives
- Dépotage de camions, citernes et containers
- Produits chauds
- Cosmétiques
- Solvants
- Chimie

RAW MATERIALS

All components in contact with the pumped fluid are made in stainless steel.

- X3 Cr Ni Mo 17-12-2 (AISI 316 - 1.4401)

HYDRAULIQUE	JOINTS	GM
STAINELESS STEEL 316	EPDM	SiC / SiC
	VITON®	SiC / Carbon
	PTFE / FEP	Alumina / Carbon
		Carbon / Staineless steel

ATEX STANDARDS

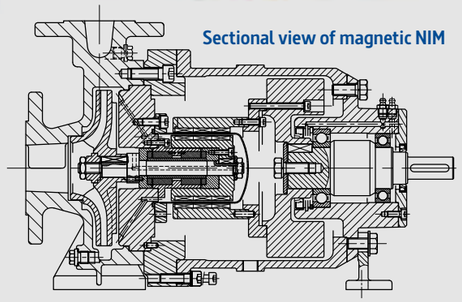
The NI range is available for ATEX explosion-proof atmospheres.

- Ex II 2/3 G/GD c IIB/IIC T4 (Others upon request)
- Voluntary certification INERIS 04 ATEX 3008X

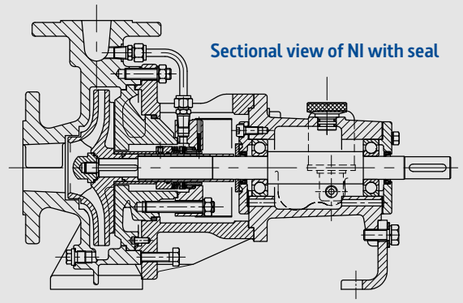
PERFORMANCES

Available in 50Hz or 60Hz
Flow rates up to 300 m³/h (GPM) at 50Hz
Total differential head up to 100 mcl (327,5 ft) at 50Hz
Temperature range from -70°C to 180°C (-94°F to 356°F)

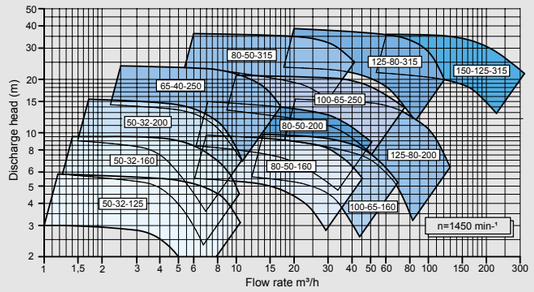
Sectional view of magnetic NIM

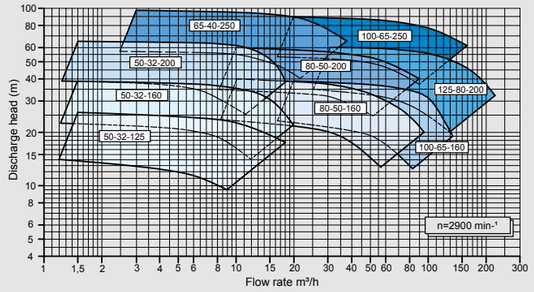


Sectional view of NI with seal

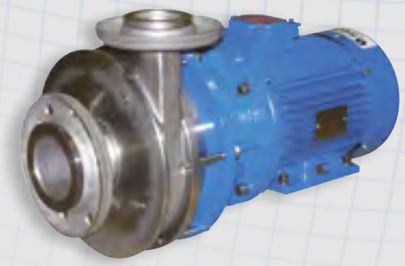


DIAGRAMS





ECO-I with mechanical seal or magnetic drive



OVERVIEW

The horizontal single stage close coupled pumps of the range ECO-I are designed for pumping corrosive fluids. They are equipped with mechanical seal specially created for the highest industrial and technologic requirements.

ADVANTAGES

- Designed to resist to the most corrosive atmospheres.
- Security of use
- Maintenance-friendly

APPLICATIONS

- Pharmaceutical industry, nuclear industry
- Transfer of aggressive solutions
- Truck unloading
- Cosmetics
- Solvents

RAW MATERIALS

All components in contact with the pumped fluid are made in stainless steel.

- X3 Cr Ni Mo 17-12-2 (AISI 316L - 1.4404)

WETTED PARTS	O-RINGS	SEALS
STAINLESS STEEL 316L	EPDM	SIC / SIC
	VITON®	SIC / CARBON
		ALUMINA / CARBON

ATEX STANDARDS

The ECO-I range is available for ATEX explosion-proof atmospheres.

- Ex II 2/3 G/GD c IIB/IIC T4 (others upon request)
- Voluntary certification INERIS 04 ATEX 3008X

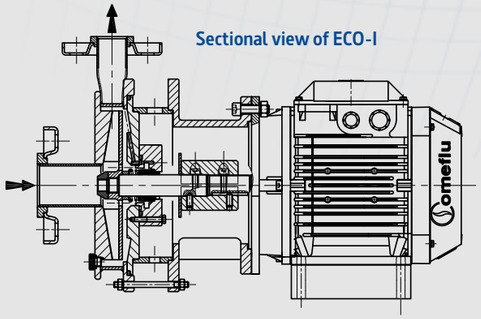
PERFORMANCES

Available in 50Hz or 60Hz

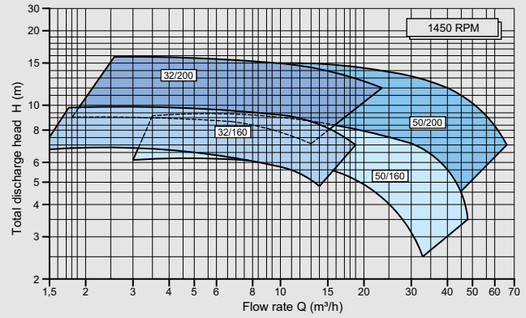
- Flow rates up to 100 m³/h (440 GPM) at 50Hz
- Total differential head up to 70 mcl (230 ft) at 50Hz
- Temperature range from -70°C to 120°C (-94°F to 248°F)

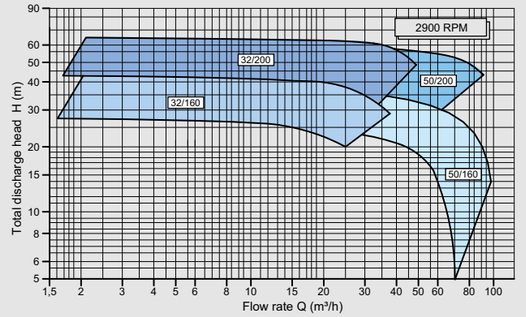
For higher performances, refer to the brochure HMI with chemical normalized hydraulics.

Sectional view of ECO-I



DIAGRAMS





HMI with mechanical seal or magnetic drive

OVERVIEW

The horizontal close-coupled centrifugal pumps of the HMI-B range are designed for pumping liquids requiring a stainless steel construction for the highest industrial and technologic requirements.
For higher performances, see our HMI-N/S range.

ADVANTAGES

- Total discharge head until 4 m
- Designed to resist to the most corrosive atmospheres
- Easy-maintenance

APPLICATIONS

- Pharmaceutical industry, nuclear industry
- Transfer of aggressive solutions
- Truck unloading
- Cosmetics
- Solvents

RAW MATERIALS

All components in contact with the pumped fluid are made in stainless steel.
- X3 Cr Ni Mo 17-12-2 (AISI 316L - 1.4404)
- X1 Ni Cr Mo Cu 25-20-5 (AISI 904L - 1.4539)

WETTED PARTS	O-RINGS	SEALS
STAINLESS STEEL 316L	EPDM	SIC / SIC
URANUS	VITON®	SIC / CARBON
	FLUOROSILICONE	
	PTFE / FEP	CARBON / STAINLESS STEEL
		PTFE GLASS / ALUMINA

- Double mechanical seal in option

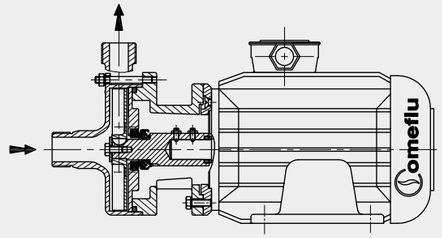
ATEX STANDARDS

The HMI-N/S range is available for ATEX explosion-proof atmospheres.
- Ex II 2/3 G/GD c IIB/IIC T4 (Others upon request)
- Voluntary certification INERIS 04 ATEX 3008X

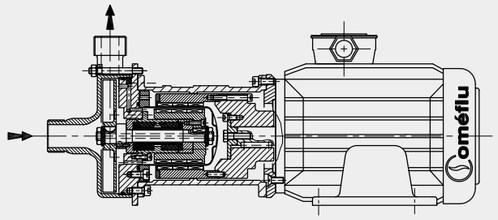
PERFORMANCES

Available in 50Hz
- Flow rates up to 70 m³/h (308 GPM) at 50Hz
- Total differential head up to 80 mcl (ft) at 50Hz
- Temperature range from -70°C to 120°C (-94°F to 248°F)

HMI-N/S

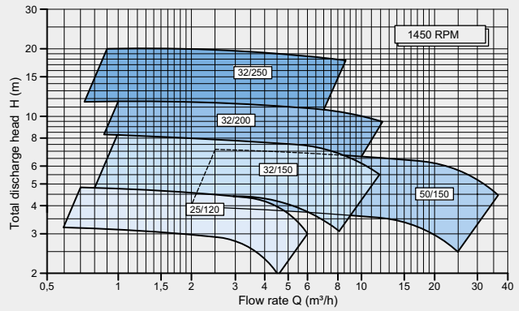


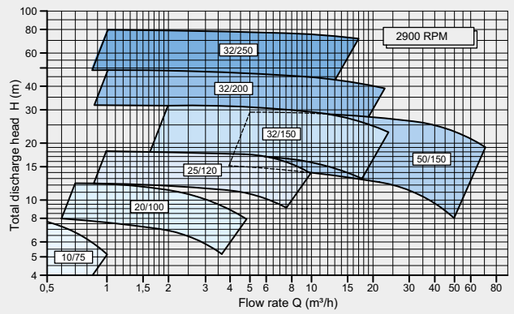
Sectional view of HMI-N with mechanical seal



Sectional view of IMA with magnetic drive

DIAGRAMS





CONNECTIONS

As required, the pumps may be fitted with flanges, threaded end pieces or fluted end pieces.

MOTORS

HMI pumps have normalized motors from reputed manufacturers.

HMI-X HIGH STATIC PRESSURE

HMI-X pumps are used for closed-circuit applications with static pressures up to 50 bar.
HMI-X pumps have volutes machined from block material.

HMI-A AND HMI-B SELF PRIMING

HMI-A and HMI-B pumps are built using HMI pump as the basis, and have a volute with an integrated priming tank.
These pumps are designed for pumping clear or slightly charged liquids.

HMI-MT FOR MEDIUM TEMPERATURE

HMI-MT horizontal single-stage centrifugal pumps are designed for pumping hot liquids.
Maximum service temperature: 200°C.

IMA with magnetic drive

HMI-X high pressure

HMI-A self priming

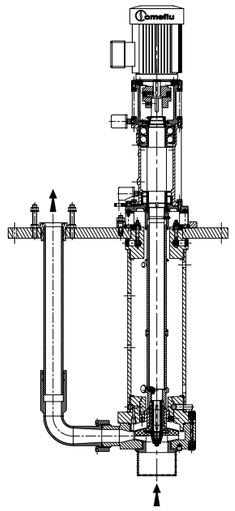
HMI-MT

HMI-DE zone 1
with lubrication vessel

VP

OVERVIEW

The vertical pumps of the VP range are designed for pumping corrosive and/or erosive fluids, for the highest industrial and technological requirements. Depending on the installation required, the lengths of vertical pumps suits your needs up to 2000 mm.



ADVANTAGES

- Designed to resist to the most corrosive atmospheres.
- Thermoplastic impeller parts molded over a steel insert, by our molding department:
  - Mechanical resistance of the metal
  - Corrosion resistance of the plastic
- Upper bearing:
  - Very robust for intensive use : 24/7
  - Equipped with automatic greasers
- Shaft thrower and lip seal to protect the bearings from splashing fluids
- Options:
  - Freeflow impeller
  - Strainer and/or suction pipe
  - Cantilever up to 1.80 meters under base-plate
  - Floating installation

APPLICATIONS

- Waste sump
- Pickling baths recycling
- Waste water treatment

RAW MATERIALS

All wetted parts are machined from solid blocks of plastic for the ultimate in robust construction.
No metallic component is in contact with the pumped fluid.

WETTED PARTS	O-RINGS
PP / PP-EL	EPDM
PVDF / PVDF-EL	FKM
SOMEDUR® / PEHD-EL	

ATEX STANDARDS

The VP range is available for ATEX explosion-proof atmospheres.

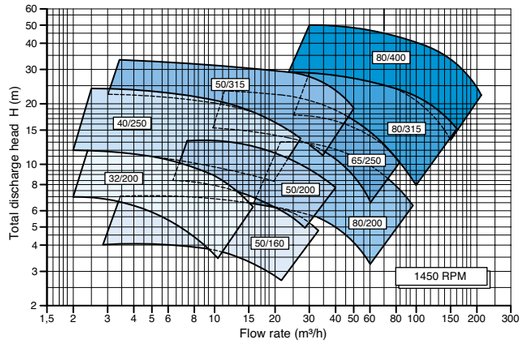
- Plastics mixed with carbon to conduct static electricity, like PP-EL (Polypropylene electro-conductive)
- Ex II 2/3 G/GD c IIB/IIC T4 (Others upon request)
- Voluntary certification INERIS (Public French Certification Organization)

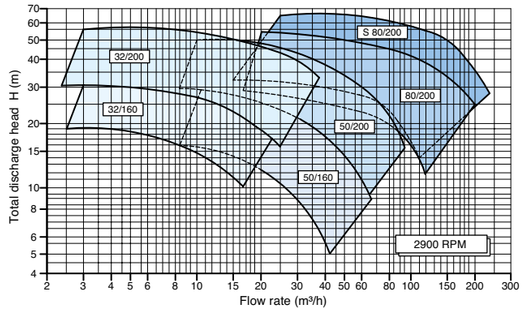
PERFORMANCES

Available in 50Hz or 60Hz

- Flow rates up to 250 m³/h (1100 GPM) at 50Hz
- Total differential head up to 65 mcl (215 ft) at 50Hz
- Temperature range from 0°C to 80°C (35°F to 175°F)

DIAGRAMS



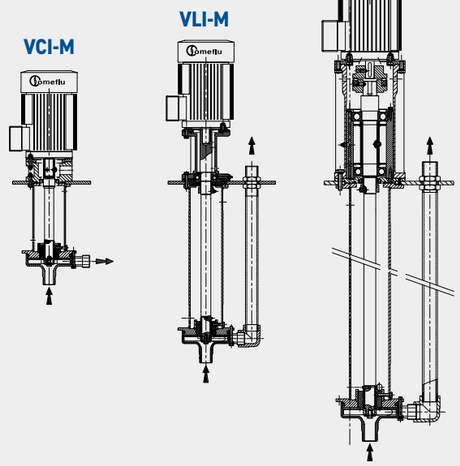


VI

OVERVIEW

The single-stage vertical centrifugal pumps of the VCI-M, VLI-M and VLI-A ranges are designed for pumping requiring a stainless steel construction for the highest industrial and technologic requirements. Depending on the requirements, the vertical Someflu pumps will fit to your needs.

- VCI-M lenght under installation: 200-400 mm depending on the model
- VLI-M lenght under installation: 700-800 mm depending on the model
- VLI-A lenght under installation: 600, 800, 1000, 1100, 1350, 1750 mm



ADVANTAGES

- Compact unit
- Solid plastic blocks machinig for the ultimate in robust construction and lost-wax foundry
- Open or closed impeller
- Easy maintenance
- In option, assembly out of the tank

APPLICATIONS

- Steel industry (pickling, surface treatment...)
- Transfert of effluents
- Machinery for cleaning (laundry, solvent...)
- Chemical treatment

RAW MATERIALS

All components in contact with the pumped fluid are made in stainless steel.

- X3 Cr Ni Mo 17-12-2 (AISI 316L - 1.4401)
- On request : X1 Ni Cr Mo Cu 25-20-5 (AISI 904L - 1.4539)

WETTED PARTS	O-RINGS
STAINLESS STEEL 316L	EPDM
URANUS	VITON®

ATEX STANDARDS

The HMI-N/S range is available for ATEX explosion-proof atmospheres.

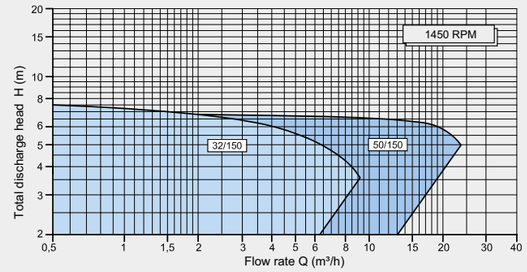
- Ex II 2/3 G/GD c IIB/IIC T4 (Others upon request)
- Voluntary certification INERIS 04 ATEX 3008X

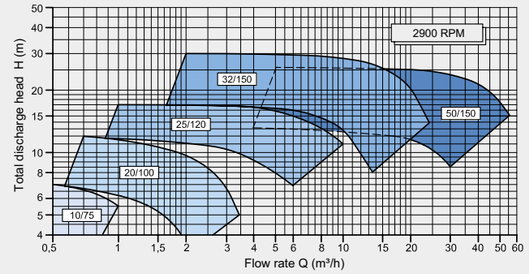
PERFORMANCES

Available in 50Hz

- Flow rates up to 60 m³/h (264 GPM) at 50Hz
- Total differential head up to 30 mcl (ft) at 50Hz
- Temperature range from -70°C to 120°C (-94°F to 248°F)

DIAGRAMS





Chabot
PROPELLER PUMPS

We design propeller pumps for fresh, brackish or salt water.

Founded in 1966, CHABOT is a French propeller pump manufacturer. Originally, the CHABOT pumps were implemented to solve drainage problems in marsh areas, in Western France.

Over the years, following needs and developments of the market, the CHABOT pumps have evolved and are used for aquaculture, agriculture, industry and public works as well. Our activities have diversified and deployed all over the world.

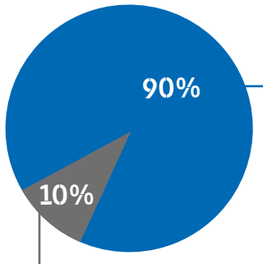
Today, with more than 50 years of existence, CHABOT offers a wider range of products. We design innovative pumping solutions, in adequacy with your needs, your specificities and constraints.

OUR SERVICES

Complete support for our clients thanks to the pooling of the group's skills:

- Studies and realization of control panel and regulation,
- Energy saving certificate with frequency inverter,
- Financing assistance (Agilor),
- E.Surveillance,
- Customized manufacturing for replacement of old propeller pumps, all brands included,
- Assistance with digitization,
- Assistance and commissioning on site,
- Customized design and production.

OUR MARKET



- **Agriculture : drainage, irrigation.**
- **Aquaculture: fish farming, oyster farming, etc.**
- Aquariums
- Public works, mines and quarries
- Leisure, aquatic centers
- Industry: Process and utility water supply, large volume
- Flood risk prevention
- Protection of hydroelectric facilities

REFERENCES

Aquaculture:

- Aqua Austral - Reunion Island
- Caviar Huso - France
- Aquanord Marine Farm - France
- France Turbot - France
- Djerba Fishery - Tunisia
- Pisciculture Giannetas - Greece
- Satmar – France

Agriculture - Irrigation:

- Agricultural Company of Saint-Louis - Senegal

Saltworks:

- Saltworks of Sine Saloum - Senegal

Miscellaneous industries, quarries, leisure, public works:

- Phnom-Penh Airport - Cambodia
- Aquabéarn - France
- Europac - Rouen paper mill - France
- Lafarge Granulats - France
- Santerne Fluides – Nausicaa Aquarium - France

COMPLETE RANGE OF ROBUST AND RELIABLE APROPELLER PUMPS

VE RANGE

MODEL	FLOW RATE	HEAD	SPECIFICITIES
VE200	200 m³/h	Low lift from 0,50 m to 1,75 m	Faible consommation électrique pour applications aquacoles.
VE260	360 m³/h		
VE350	720 m³/h		

V RANGE

MODEL	FLOW RATE	HEAD	SPECIFICITIES
V160	80 to 180 m³/h	1 to 12 m	Agriculture (drainage) Industry Fish farming Water transfer
V200	180 to 370 m³/h		
V260	370 to 570 m³/h		
V300	570 to 800 m³/h		
V350	800 to 1 200 m³/h		
V400	1 200 to 1 800 m³/h		
V500	1 800 to 3 000 m³/h		
V600	3 000 to 4 600 m³/h		
V700	4 600 to 7 000 m³/h		

POLYMER RANGE - P150

MODEL	FLOW RATE	HEAD	SPECIFICITIES
P150-0.5-6	Up to 90 m³/h	0.35 m	Aeration or brewing for tanks, in aquaculture or aquariology.
P150-0.5-4	Up to 140 m³/h	0.35 m	
P150-1-6	Up to 56 m³/h	0.85 m	
P150-1-4	Up to 120 m³/h	0.85 m	
P150-1.5-4	Up to 120 m³/h	1.35 m	

In addition to our catalog, we design custom-made pumping solutions, especially for isolated sites: autonomous photovoltaic or with generators pumping stations.

> P RANGE (POLYMER)

PRESENTATION

Made in France, the CHABOT P range propeller pumps are designed for the aeration and mixing of tanks, but also for the transfer of fresh, brackish or salt water in fields such as aquaculture, aquaponics or aquariology.

MAIN ADVANTAGES

- Polymer construction for perfect resistance to seawater
- Excepted the shaft, the wetted parts are chemically inert and without impact on young living organisms (fry, spat, larvae, etc.)
- Designed propeller in numerical simulation for an optimized energy consumption
- Easy to install thanks to our optional accessories (no need for civil works)
- Maximum weight of 42.5 kg for an easy mobility
- Easy disassembly and repair, even after several years of operation in aggressive environment

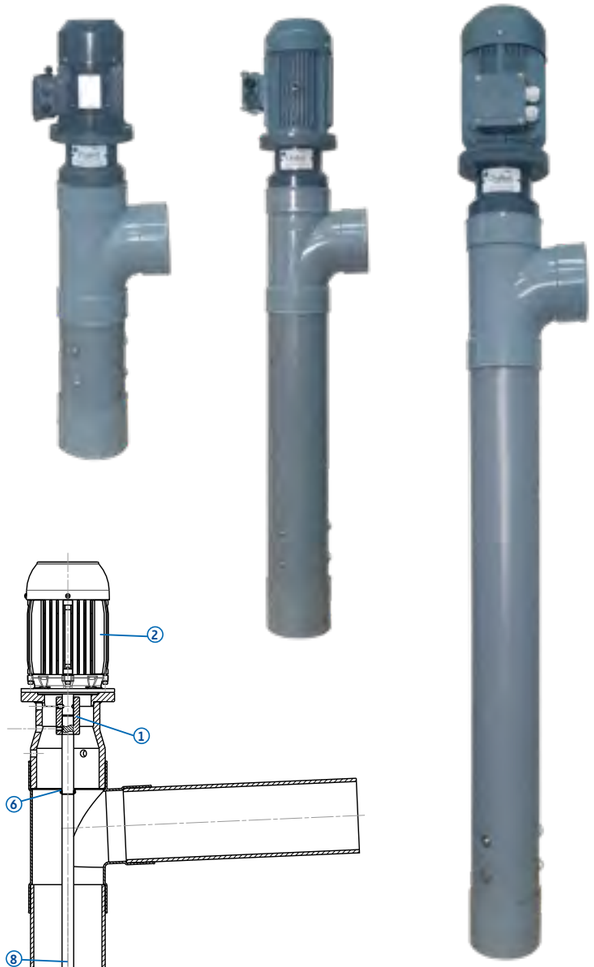
APPLICATIONS

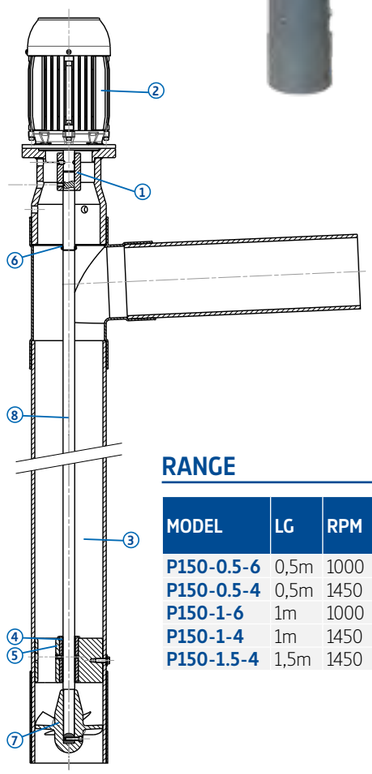
The P series is used in fish and shellfish farming and aquariology:

- Stirring and recirculation
- Creating movement in water
- Aeration
- Transfer between tanks

OPTIONAL ACCESSORIES

- Tripod
- Support plate (pump L 0.5m)
- Strainer





RANGE

MODEL	LG	RPM	KW	MAX (m^3/h)	MAX HEAD
P150-0.5-6	0,5m	1000	0,75	90	0.35 m
P150-0.5-4	0,5m	1450	1,1	140	0.35 m
P150-1-6	1m	1000	0,75	56	0.85 m
P150-1-4	1m	1450	1,1	120	0.85 m
P150-1.5-4	1,5m	1450	1,1	120	1.35 m

> V RANGE

The CHABOT V propeller pumps are intended for lifting and transferring fresh, salt or brackish water, clear or lightly charged, in many fields of activity for high flow rates under low and medium head heights elevation.

MAIN ADVANTAGES

- Standardised motors according to IEC standards: thermal or hydraulic motorisation on request
- Modular design
- Good repairability and simplified maintenance
- Heavy duty upper bearing construction for intensive use
- Hydrolub lower bearings, lubricated by the pumped fluid
- Customized and turnkey pumping solutions on request
- Financing plan according to eligibility

APPLICATIONS

- Industry: process and utility water supply, large volume,
- Anti-flooding platform
- Agricultural drainage and irrigation (marshes, polders, rice cultivation, cereal crops)
- Fish and shellfish farming, aquaculture
- Seawater desalination
- Saltworks
- Public works and quarries

> VE RANGE

The CHABOT VE series propeller pumps provide a robust and innovative solution for applications with a maximum head of 1.75 m. The flared shape of the body allows gravity flow from the level of the base plate . To be installed on a weir platform, the configuration of the VE pumps thus makes it possible to recreate a flow as close as possible to the natural characteristics, saving electricity by the absence of elbows.

MAIN ADVANTAGES

- Standardised motors according to IEC standards
- Low power consumption
- Robust upper bearing construction for continuous operation
- Hydrolub lower bearing, lubricated by the pumped fluid
- Customized and turnkey pumping solutions on request
- Financing plan according to eligibility

APPLICATIONS

- Lifting and transfer of fresh , salt or brackish water at low height in all areas of activity
- Particularly suitable for transferring and regenerating tanks in fish farming applications

E-SURVEILLANCE

Condition-based and predictive preventive maintenance: a simple and efficient service that can be installed in less than 60 minutes

By launching a new E-monitoring range of solution, the "E-surveillance" offering, Someflu and Chabot subsidiaries of the pump division of the Gestion & Prospective group, wish to offer effective solutions for monitoring performance in pump operation and maintenance with all the freedom, safety and simplicity that the digital world can offer.

ACCESS AND MANAGE YOUR PUMP FLEET ANYWHERE AND ANYTIME WITH E-SUVEILLANCE

ACCESS AND MANAGE YOUR PUMP FLEET ANYWHERE AND ANYTIME WITH E-SUVEILLANCE

With Someflu or Chabot E-Surveillance, your phone, tablet or computer provides the visibility into the fleet of rotating equipment and peace of mind you need.

Machine monitoring is based on the use of vibration, electrical and temperature data from sensors placed on pumps or in cabinets and the collection of data from Variable Frequency Drives or PLCs.

E-Surveillance customers and users benefit from tools and solutions that integrate into their predictive maintenance environment. They have access to the identification of operational issues and trend monitoring and support root cause analysis using advanced data analytics.

Knowledge of the design and operating parameters of Someflu and Chabot pumps allows to design the best measurement plan adapted to the needs of operation and/or maintenance.

With the analytical angle of view from a pump manufacturer, our specialists provide value-added support in data analysis and goal building, whether to reduce energy consumption, control maintenance costs or help reduce operating losses.

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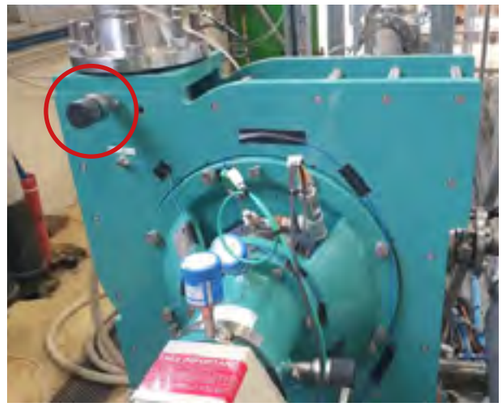


KEY POINTS

MANAGEMENT OF THE COMPLETE DIGITAL CHAIN

- Configuration of vibration, temperature, current, voltage sensors
- Interfacing with PLCs and Variable Frequency Drives
- Setting information transmission protocols locally and then remotely
- Integration into a server architecture with databases to store data in the Client's computer system or Someflu's

USER EXPERIENCE

- Receive alarms and alerts via SMS/calls
- Optimization of electricity consumption
- Reduction in operating losses
- Scheduling of technical interventions upstream
- Pump performance tracking
- Personalized interface

Vibration and temperature sensors (wired and wireless, option ATEX)

Tri-axis vibration (piezoelectric and MEMS), temperature wireless sensor

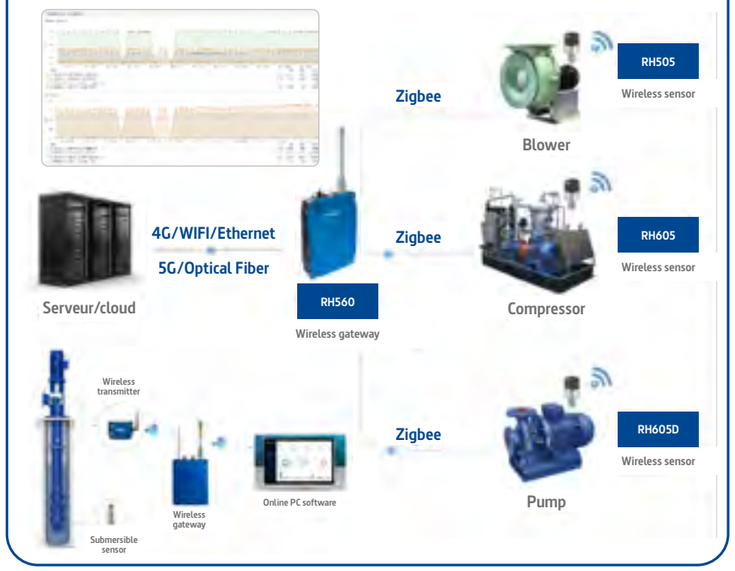
Wireless gateway, Ex, Local Area Network ZIGBEE, communication ethernet RJ45 plus 4G

Voltage and current measurement

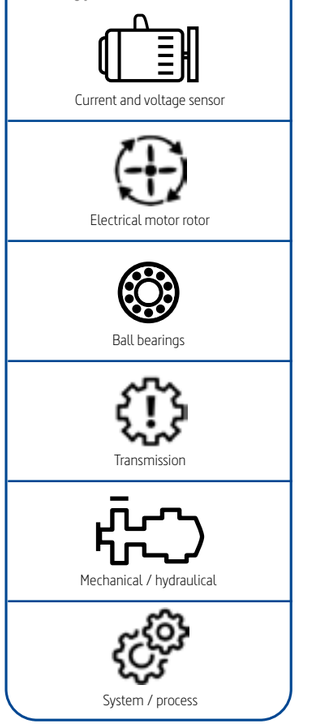
Current and voltage sensor

DLM M20 current fault detector

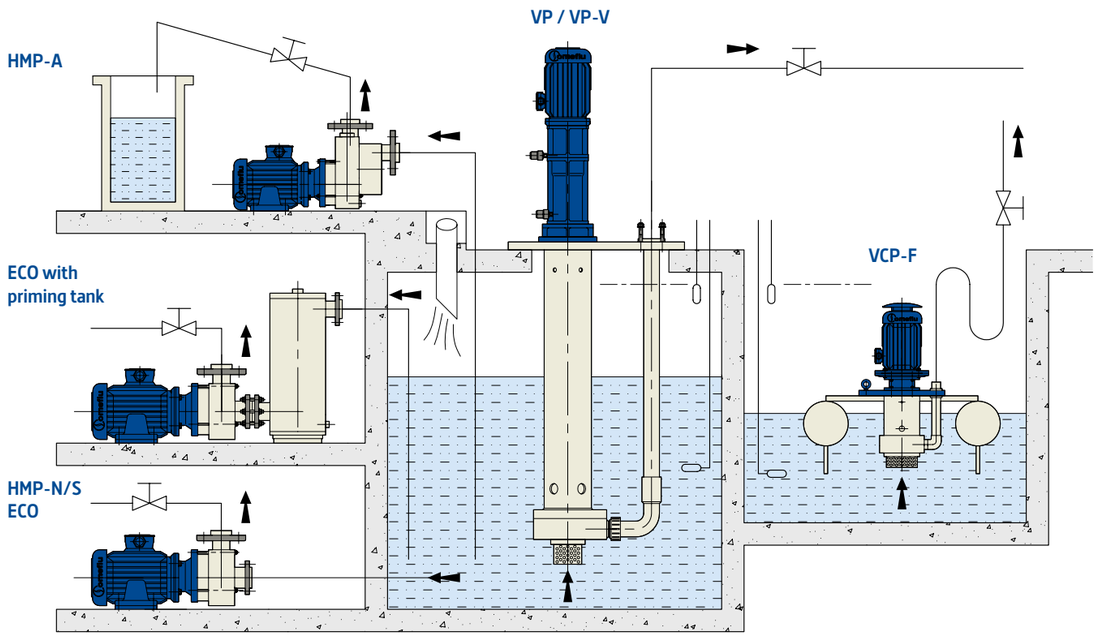
Vibration and temperature rotating equipment surveillance



Typical fault detection



EXAMPLES OF INSTALLATIONS











OTHER PRODUCTS

- Filtration units
- Descaling units
- Accessories for protection and regulation

GDP descaling unit


Pressure gauge with separator

GFP filtration unit

PUMP INSTALLATION ACCESSORIES

Expansion anchor bolts

Carp tail anchor bolts

Adjustable feet under baseplate

Baseplate vibration isolator and anti-vibration pads

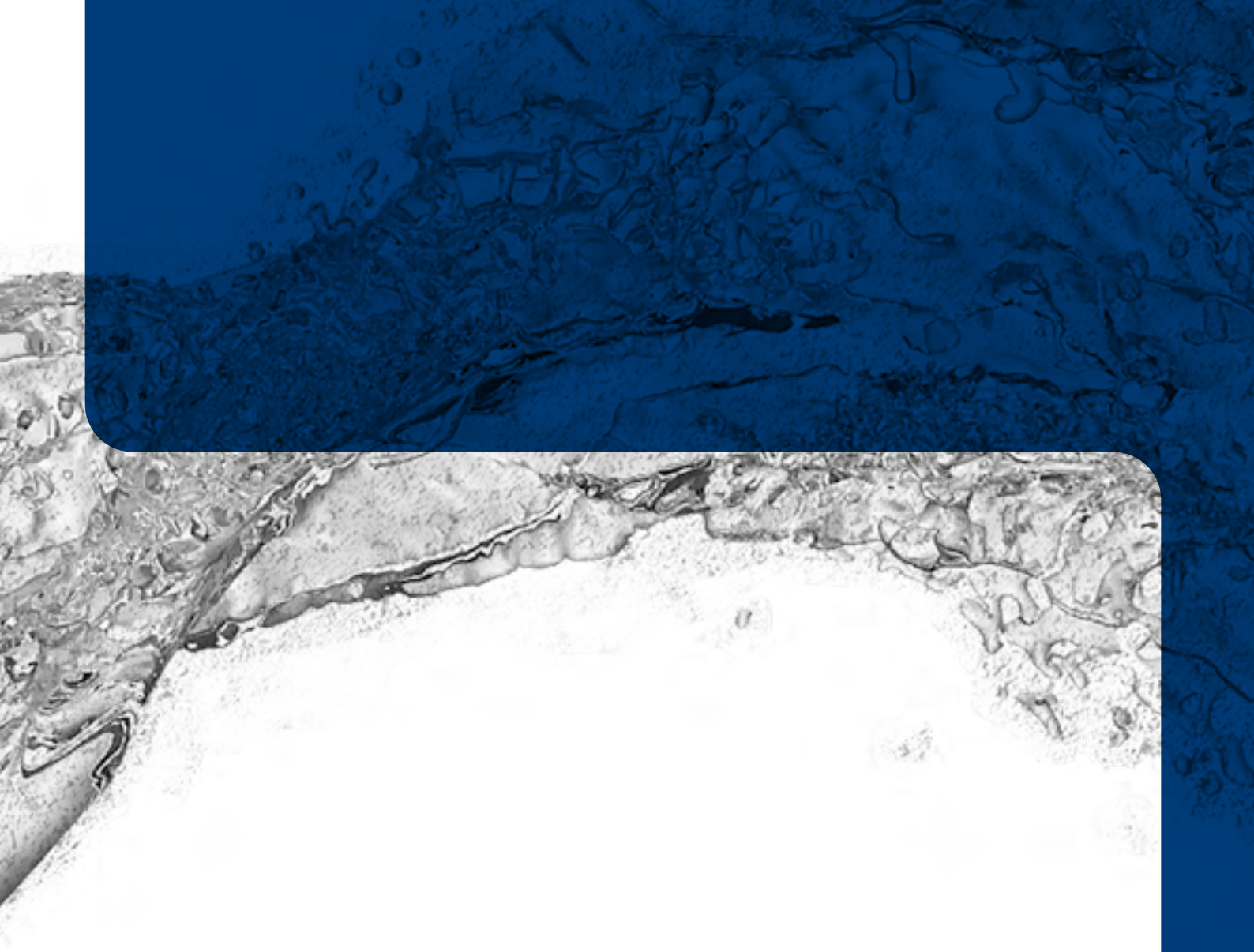
Polymer baseplate


Shouldered polymer block


Seal injection flow regulator

Someflu CB cartridge mechanical seal

Fluid reservoir



SOMEFLU

CHABOT

GESTION ET
PROSPECTIVE

Someflu
Corrosion-resistant centrifugal pumps

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MADE IN FRANCE

La FRENCH FAB