

tapflo®

# INDUSTRIAL CENTRIFUGAL PUMPS

2019 | 1



» All about your flow™

[www.tapflo.com](http://www.tapflo.com)

## All about your flow™

*Since 1980, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications. We deliver the best solutions and support for a range of Hygienic, Sanitary and Industrial applications, while going above and beyond to provide excellent service to our customers worldwide.*

Tapflo is a family-owned company, founded in Kungälv, Sweden. Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values of Commitment, Quality and Simplicity are reflected both in our product and business approach.



**For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.**

## Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.



## Tapflo values

Our culture is concluded in Our values

### Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world but we share the same values and we respect each other. We are committed.

### Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

### Simplicity

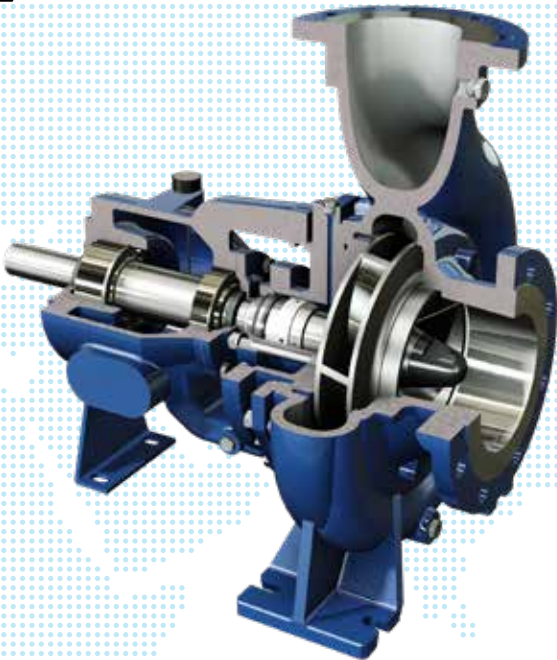
We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.

# Process

■ RD



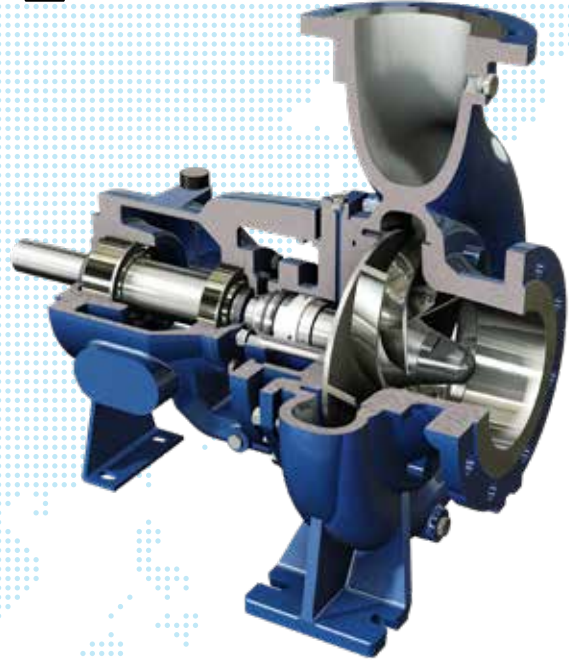
Closed Impeller



■ RG



Semi-Open Impeller



■ RB



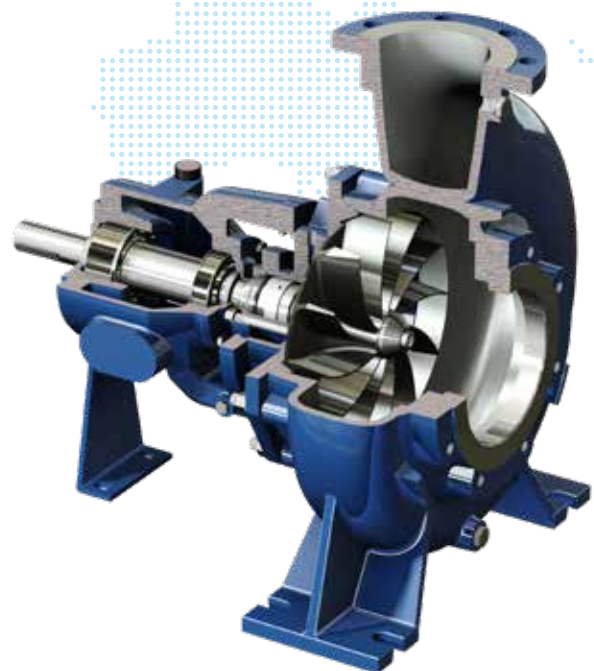
Channel Impeller



■ RC



Vortex Impeller





# Vertical

## ■ VERTICAL



Closed, Open, Channel  
and Vortex Impeller



## ■ CANTILEVER



Vortex and Channel  
Impeller



# Close Coupled

■ HD  
⊕  $\epsilon_x$  Closed Impeller



■ HG  
⊕  $\epsilon_x$  Semi-Open Impeller



■ RS  
⊕  $\epsilon_x$  Vortex Impeller

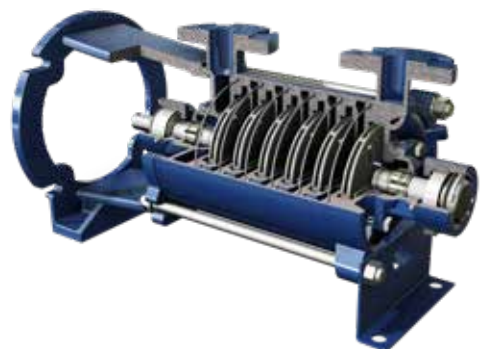


# Water

■ RN  
⊕  $\epsilon_x$  Closed Impeller



■ TS  
⊕  $\epsilon_x$  Multistage



■ RAM  
Peripheral Impeller



# RD Closed Impeller



High hydraulic efficiencies and low NPSH requirements (investment casting impellers).

Centrifugal pumps build according to ISO 2858/ISO 5199 norms.

- » Heavy Duty Shaft and Bearings.
- » Only 3 bearing brackets for the whole range.
- » Only 1 casing cover fits every seal arrangement

## FIELDS OF APPLICATION:

handling aggressive organic and inorganic liquids in the chemical and petrochemical industries.

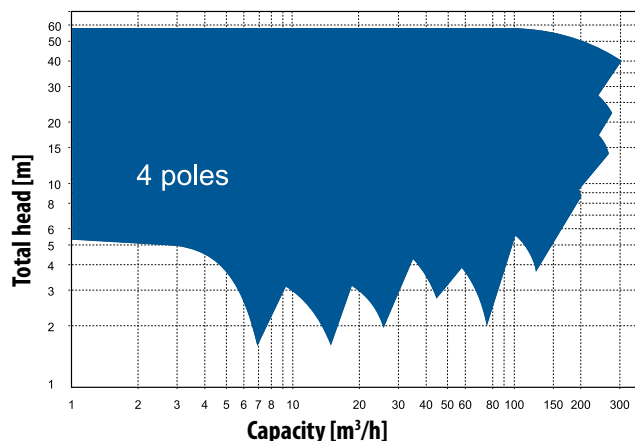
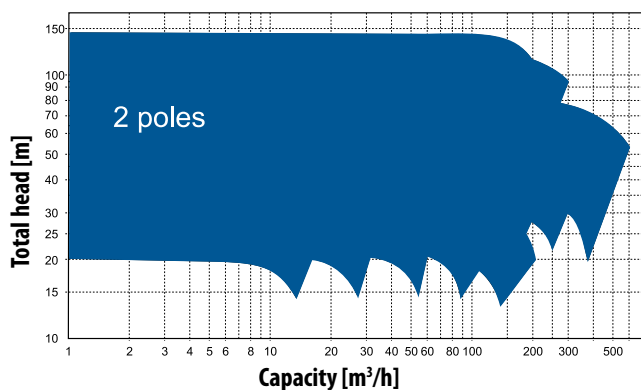
They are also used in:  
sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industry, hot water distribution.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 32 to DN 125</b>
<b>Maximum working pressure:</b>	<b>16 bar</b>
<b>Flow rate:</b>	<b>up to 500 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 140 m</b>
<b>Temperature:</b>	<b>up to 180-220°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316 Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy B and C</b>

## Selection Charts



## Arrangement



# RG Semi-Open Impeller



High hydraulic efficiencies and low NPSH requirements (investment casting impellers).

Centrifugal pumps build according to ISO 2858/ISO 5199 norms.

- » Heavy Duty Shaft and Bearings.
- » Only 3 bearing brackets for the whole range.
- » Only 1 casing cover fits every seal arrangement

## FIELDS OF APPLICATION:

handling slightly contaminated liquids or not abrasive slurries in the chemical and petrochemical industries. Well suited for handling liquids with gas contents up to 15%.

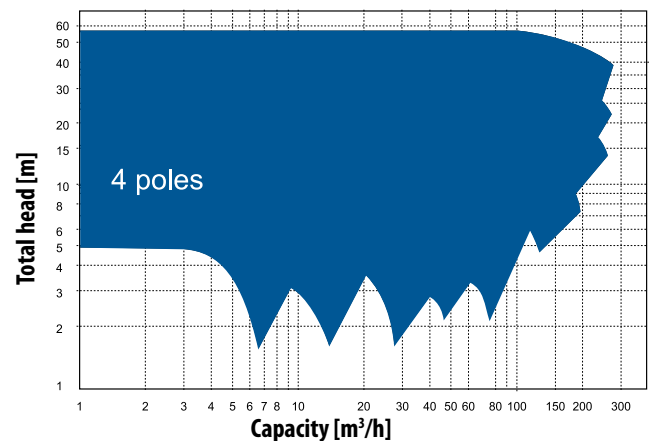
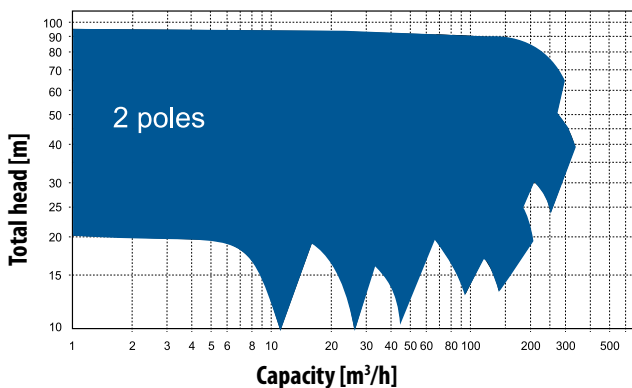
They are also used in: refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries, hot water distribution.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 32 to DN 125</b>
<b>Maximum working pressure:</b>	<b>16 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 300 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 95m</b>
<b>Temperature:</b>	<b>up to 180-220°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316 Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy B and C</b>

## Selection Charts



## Arrangement



# RB Channel Impeller



Impeller with special blades geometry for low NPSH and high free passage.

Centrifugal pumps with bearing bracket in according to ISO 2858/ISO 5199 norms.

- » Heavy Duty Shaft and Bearings.
- » Only 5 bearing brackets for the whole range.
- » Only 1 casing cover fits every seal arrangement

## FIELDS OF APPLICATION:

Handling slightly contaminated liquids in waste water treatment plants, clean water for cooling towers or condensate recovery plants, viscous liquids in evaporators in food or chemical industry.

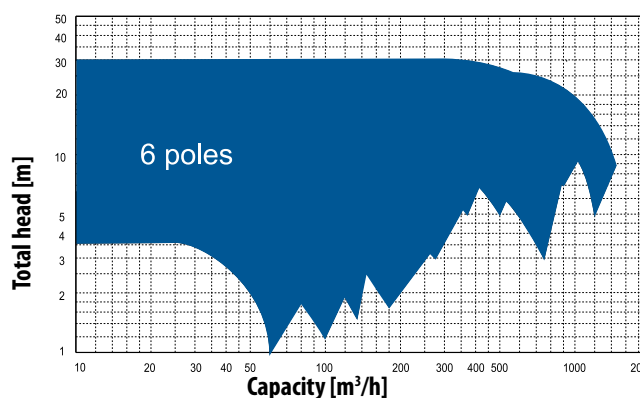
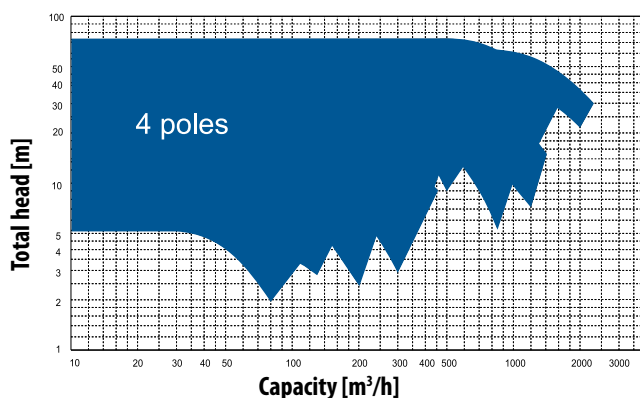
They are also used in: refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries, hot water distribution.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 65 to DN 300</b>
<b>Maximum working pressure:</b>	<b>10 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 2400 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 70 m</b>
<b>Temperature:</b>	<b>up to 150-220°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316 Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy B and C</b>

## Selection Charts



## Arrangement





# RC Vortex Impeller



Large free passage clearance up to 180 mm due to the completely recessed impeller.

Centrifugal pumps with bearing bracket in according to ISO 2858/ISO 5199 norms.

- » Heavy Duty Shaft and Bearings.
- » Only 4 bearing brackets for the whole range.
- » Only 1 casing cover fits every seal arrangement

## FIELDS OF APPLICATION:

Handling chemical and crystalline suspensions, all viscous liquid, liquid with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge.

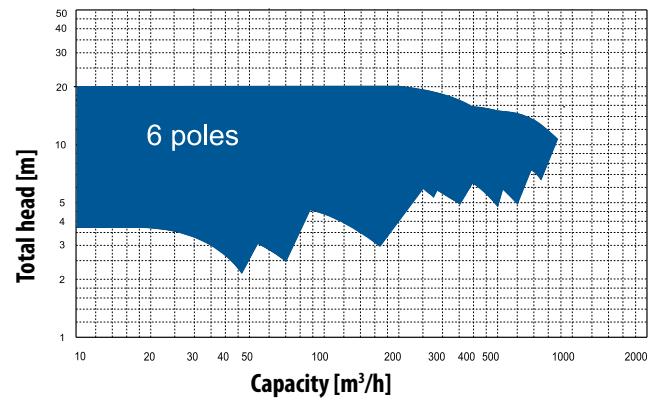
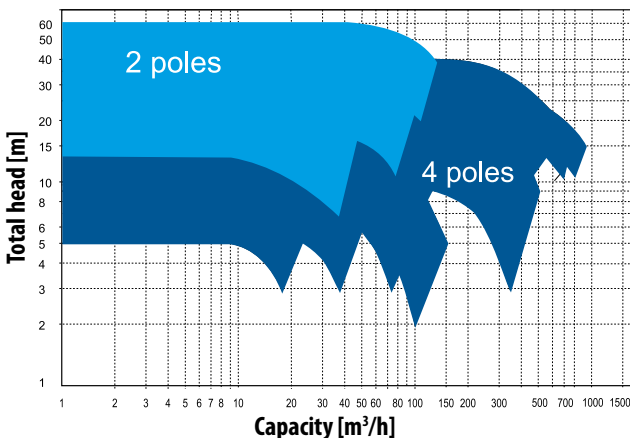
Textile and tannery: refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 32 to DN 250</b>
<b>Maximum working pressure:</b>	<b>10 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 800 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 60m</b>
<b>Temperature:</b>	<b>up to 150-220°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>Cast Iron GJL250 or AISI 316. Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy</b>

## Selection Charts



## Arrangement



# Seals

## Only one casing for different mechanical seal arrangement.

Cylindrical chamber built in according to EN 12756 standards can be fitted with any type of mechanical seal or cartridge.

Single mechanical seals, double mechanical seals (tandem or back to back arrangements) or packing can be obtained using few components. This modular system allow the customer to change seal arrangements using the same casing cover and replacing just few parts. Up to 15 different seal arrangement to cover all the customer needs. Seal arrangements can be fitted with flushing plans in according to API 682 standards (such as PLAN 11, PLAN 52, PLAN 53, PLAN 54).

## Single mechanical seal

This is the most popular type of mechanical seal in clean (no solid particles or crystals) liquid service. The pumped medium lubricates mech. seal surfaces and remove friction heat.



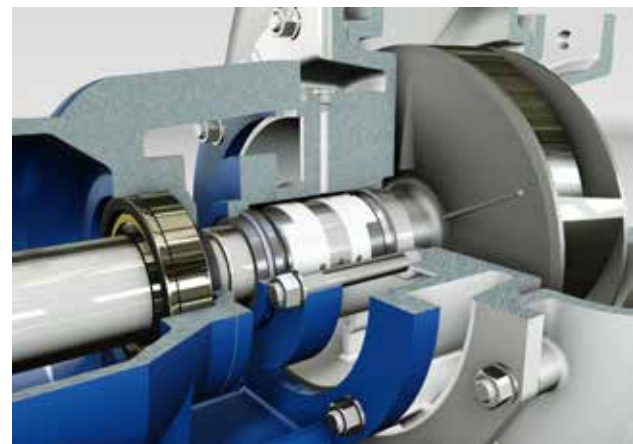
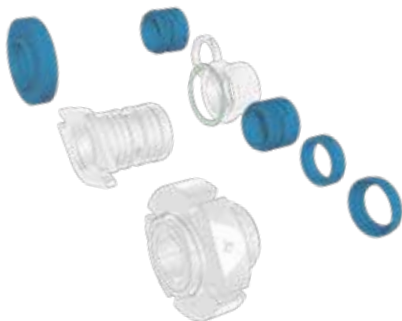
✓ Blue colour parts used in the arrangement.

## Double back to back mechanical seal

This type of double seal (with back to back faces) is pressurized above the pressure inside the seal chamber.

An external buffer fluid serves to separate the product from the atmosphere. Buffer fluid pressure have to be around 0,5/1 bar above the pressure of the product.

To obtain the benefits of this seal, it is necessary to install a gauge indicating the actual seal chamber pressure. Sensors and transmitters can be used to monitor and act on a pressure change.



✓ Blue colour parts used in the arrangement.

## Double tandem mechanical seal

This dual seal has both the rotary units facing in the same direction.

The purpose of the mechanical seal on the atmosphere side of tandem is either two-stage pressure reduction or else to seal in the quenching medium and to monitor the primary mechanical seal on the product.

An external buffer fluid serves to separate the product from the atmosphere.



✓ Blue colour parts used in the arrangement.

## Cartridge seal

Cartridge mechanical seals and component seals use similar components, but the stationary components of cartridge seals are preassembled in a housing, and the rotating components are preassembled on a shaft-mounted sleeve that is sealed with an O-ring.

The cartridge seal housing typically replaces the gland cover plate and seals to the pump housing with a gasket, an O-ring or other elastomer.

Since cartridge mechanical seal components are preassembled onto the sleeve and into the cartridge housing, errors in parts installation are unlikely.



✓ Blue colour parts used in the arrangement.

## Packing gland

Gland packing is a braided, rope like material that is packed around the shaft - physically stuffing the gap between the shaft and the pump housing.

Gland packing is still commonly used in many applications.

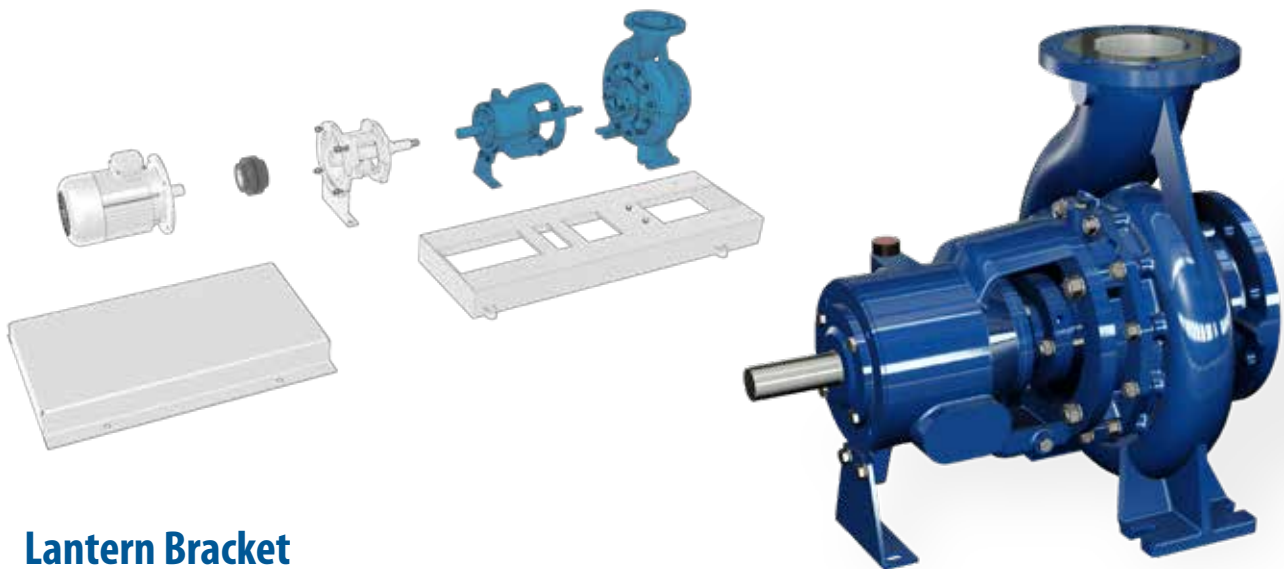


✓ Blue colour parts used in the arrangement.

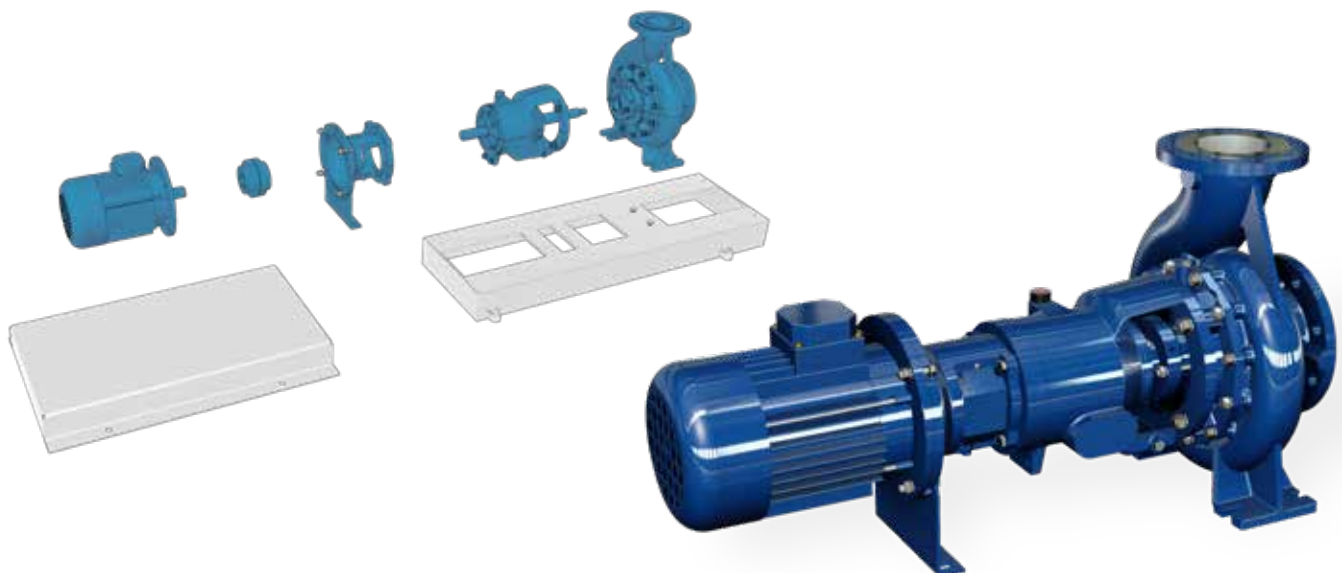
# Pump Unit Arrangement

To build the whole pumps range (close-coupled, lantern bracket and on base plate execution) are necessary just 3 bearing housings and 6 lanterns .  
Oversized base-plates grant high stability; the lantern bracket execution avoids problems related to misalignment between pump and motor.

## Bare Shaft

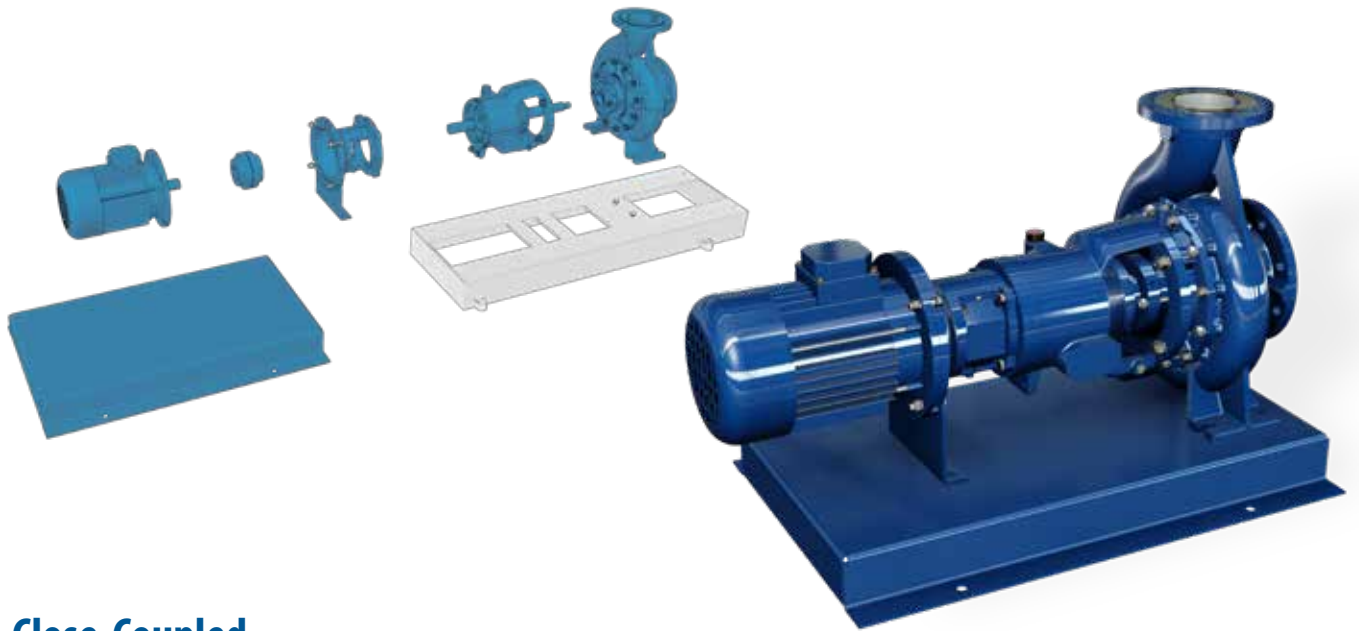


## Lantern Bracket





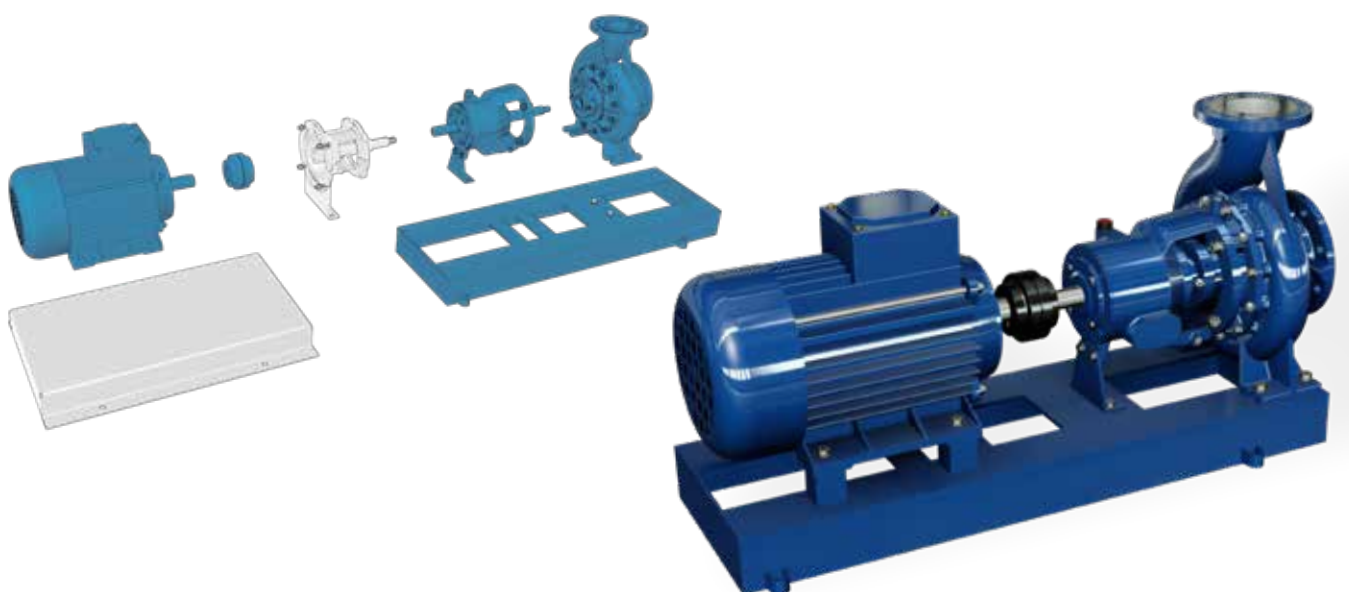
## Lantern Bracket on base



## Close-Coupled



## Bare shaft on base



# Vertical - Closed, Open, Channel and Vortex Impeller



Vertical immersible sump pump (ISO 5199 norms) line-shaft with bearing bushes.

The pump body is immersed into the liquid, whilst the motor is mounted above the plate, keeping it away from the liquid.

The discharge pipe is separated from the column pipe and the lubrication of the line bearings is normally obtained by means of the same pumped fluid, or from an external lubricating source (such as clear liquid or grease) in abrasive services.

The possibility to customize mounting plate shape and dimensions, discharge flange position and column length, allows designers and end-users to match sump or tank plates or flanges.

## FIELDS OF APPLICATION:

Used in all industrial applications, refining, oil and gas production, chemical, pulp & paper and water facilities.

Typical applications include: drainage sumps, oily water sumps, tank transfer.



## Fast facts

<b>Pump length:</b>	<b>up to 6 meters</b>
<b>Mounting plate:</b>	<b>rectangular, circular or according to customer's specifications</b> PTFE LIP SEAL or CARTRIDGE SEAL for vapor proof construction or pressurized designs.
<b>Materials:</b>	<b>Cast Iron GJL250 or AISI 316.</b> Upon request AISI 304, AISI 904, duplex, superduplex.
<b>Bearing bush materials:</b>	<b>bronze, rubber, RULON and PEEK</b>
<b>Suction strainer and suction extension on request.</b>	

## Impeller type



**Closed Impeller**  
Clean liquids.



**Semi-open impeller with wear plate and external adjustment**  
Slightly contaminated liquids or non abrasive slurries. Well suited for handling liquids with gas contents up to 15%.



**Channel Impeller**  
Slightly contaminated liquids or non abrasive slurries. Special blade geometry for low NPSH and high free passage. High efficiency and low NPSH.



**Vortex Impeller**  
Chemical and crystalline suspensions, all viscous liquids, liquids with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge. Free passage up to 180 mm.

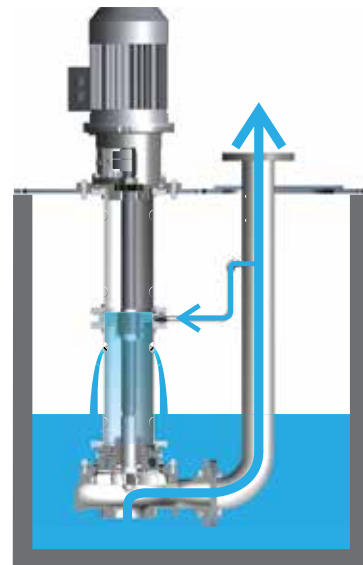
## Arrangements

### Lubrication by means of pumped fluid.

Pumped fluid lubricates all the bearing bushes (bottom and intermediates).

The liquid must be clean: suspended solids could clog the small pipes for intermediate bearing bush lubrication.

Vertical pumps with bottom bearing bush only, can also work with liquids with non abrasive small solids.

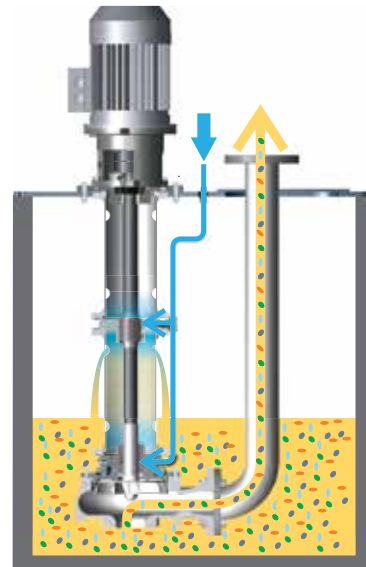


### Lubrication by external lubricating source.

A clean external source, clean liquid or grease lubricates all the bearing bushes (bottom and intermediates).

Used when the liquid is dirty, sticky or with suspended solids.

This arrangement also allows also the pump to work without liquid in the sump or with tail pipe. The external fluid is pumped together with the main fluid.

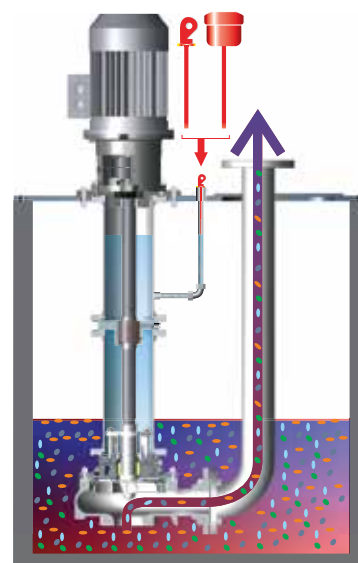


### Lubrication by fluid into the pipe column.

Used when the liquid is aggressive, dirty, sticky or with suspended solids.

A mechanical seal is placed between the shaft and the casing cover to fill the pipe column. All the bearing bushes (bottom and intermediates) are lubricated by flushing fluid.

Before startup, the pipe column must be filled with antifreeze solution. The level can be controlled by a dip-stick or level probe upon request.



# Cantilever - Vortex And Channel Impeller



Vertical cantilever sump pumps with non-clogging vortex and channel impeller.

The pump body is immersed into the liquid, whilst the motor is mounted above the plate, keeping it away from the liquid.

Oversize heavy duty ball bearing are supplied with grease fittings and located above the mounting plate out of the corrosive area. This means:

- » None of the bearings are in the liquid and there is no shaft seal or bearing bush;
- » Bearing assembly is sealed-off to prevent bearing contamination by liquids or gases-vapors;
- » Pumps can run dry without risk of damage;
- » Reliable operation and reduced cost.

The possibility to customize mounting plate shape and dimensions, discharge flange position and column length, allows designers and end-users to match sump or tank plates or flanges.

## FIELDS OF APPLICATION:

Used for sludges, slurries and liquids containing large or long solids.

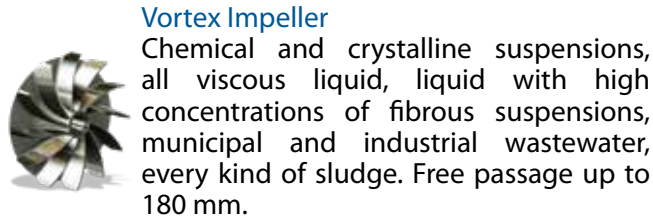
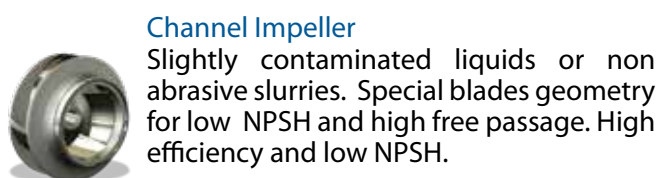
Typical applications include: drainage sumps, oily water sumps, tank transfer, food processing, ground water development and irrigation, heavy oil, oil sands and shale, paper stock, sewage collection and treatment, shower pumps, slurry processing, slurry transfer.



## Fast facts

- Pump length:** up to 1,8 meters.  
Can be extended by means of a suction extension allowing the pump to operate with a liquid level under the impeller level
- Mounting plate:** rectangular, circular or according to customer's specifications  
PTFE LIP SEAL for vapor proof construction.
- Materials:** Cast Iron GJL250 or AISI 316. Upon request CA6NM (400HB hardness), AISI 304, AISI 904, duplex, superduplex, CA6NM (400HB hardness)
- Suction strainer and suction extension on request.**

## Impeller type





## Installation

### Typical installation

The cantilever pump is installed at the top of sump/ tank and works without level controls. With liquid level above the pump "priming holes", the pump works properly.

As soon as the liquid level is below the suction port, the pump will be unprimed and work dry.

The pump will restart to work when the liquid level reaches the pump "priming holes".



### Typical installation with suction extension

The cantilever pump is installed at the top of sump/ tank and works without level controls. With liquid level above the pump "priming holes", the pump works properly.

As soon as the liquid level is below the end of suction extension or when the NPSHa is lower than NPSHr, the pump will be unprimed and work dry.

This arrangement allows to empty tanks up to 5 meters below the suction port.

The pump will restart to work when the liquid level reaches the pump "priming holes".



### External installation

The cantilever pump is installed beside of sump/ tank and works without level controls. When the liquid level inside the tank is above the pump casing the pump can operate.

As soon as the liquid level is below the suction port, the pump will be unprimed and work dry. The pump will start again to work when the liquid level inside the tank is above the pump casing.

The liquid level inside the tank has to be lower than recirculation pipe in order to allow the liquid back to into the tank and not damage motor.

This arrangement allows to work with very hot fluid (up to 300°C) with suspended solids.



# HD Closed Impeller



Heavy duty close coupled centrifugal pumps.

Same interaxis of ISO 5199 chemical norm pump:

- » Easy interchangeability.
- » Casing and impeller manufactured with investment casting technology.
- » Standard IEC motor (different brand available) - stub shaft design.
- » Different seal execution and materials options available on request.

## FIELDS OF APPLICATION:

handling aggressive organic and inorganic liquids in the chemical industries.

They are also used in:

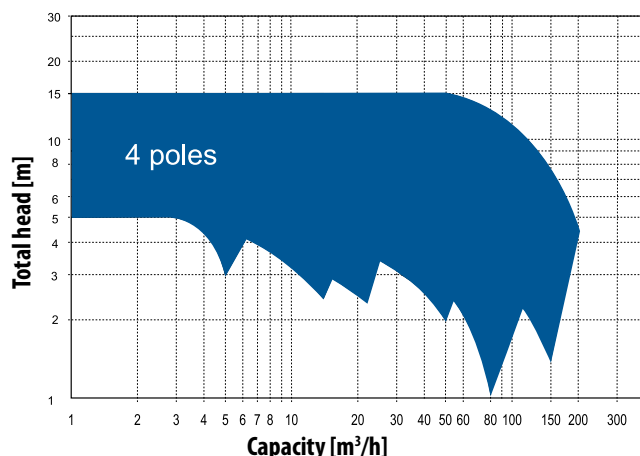
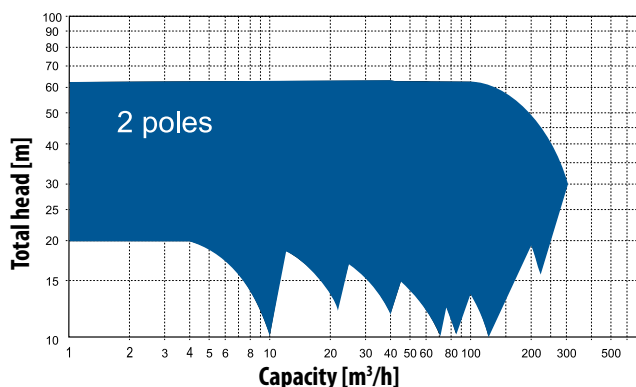
general industrial service, foodstuffs industry, water/solvent recovery process, power stations, steel industry, small evaporator plants.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 32 to DN 80</b>
<b>Maximum working pressure:</b>	<b>up to 8 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 300 m<sup>3</sup> /h</b>
<b>Differential head:</b>	<b>up to 55 m</b>
<b>Temperature:</b>	<b>up to 120°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316</b>
<b>Flanges:</b>	<b>PN16 reduced thickness or DIN 11851 food connections</b>

## Selection Charts



## Connections



FLANGED



FOOD CONNECTIONS

# HG Semi-Open Impeller



Heavy duty monoblock centrifugal pumps.

Same interaxis of ISO 5199 chemical norm pump:

- » Easy interchangeability.
- » Casing and impeller manufactured with investment casting technology.
- » Standard IEC motor (different brand available) - stub shaft design.
- » Different seal execution and materials options available on request.

## FIELDS OF APPLICATION:

handling slightly contaminated liquids or non abrasive slurries in the chemical and petrochemical industries. Well suited for handling liquids with gas contents up to 10%.

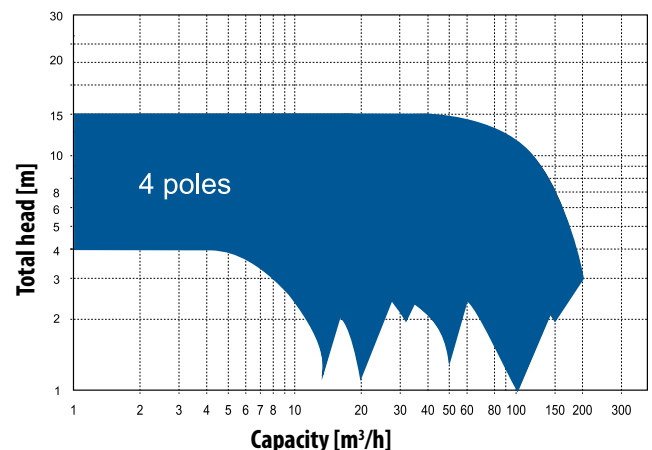
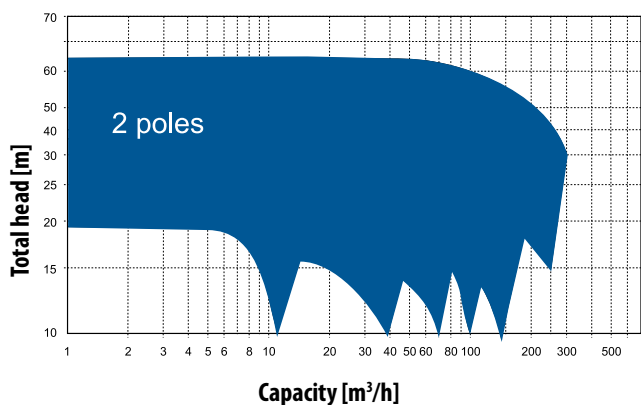
They are also used in: general industrial service, foodstuffs industry, dissolved air flotation systems, small evaporator plants, sugar industry, water/solvent recovery process, power stations, steel industry textile.



## Fast facts

<b>Discharge sizes:</b>	<b>from DN 32 to DN 80</b>
<b>Maximum working pressure:</b>	<b>up to 8 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 200 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 60 m</b>
<b>Temperature:</b>	<b>up to 120°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316</b>
<b>Flanges:</b>	<b>PN16 reduced thickness or DIN 11851 food connections</b>

## Selection Charts



## Connections



FLANGED



FOOD CONNECTIONS

# RS Vortex Impeller



## Heavy duty monoblock centrifugal pumps.

Same interaxis of ISO 5199 chemical norm pump:

- » Easy interchangeability.
- » Casing and impeller manufactured with investment casting technology.
- » Large free passage clearance up to 50 mm due to the completely recessed impeller.
- » Standard IEC motor (different brand available) - stub shaft design.
- » Different seal execution and materials options available on request.

### FIELDS OF APPLICATION:

Handling chemical and crystalline suspensions, all viscous liquid, liquid with high concentrations of fibrous suspensions, municipal and industrial waste water, sludge.

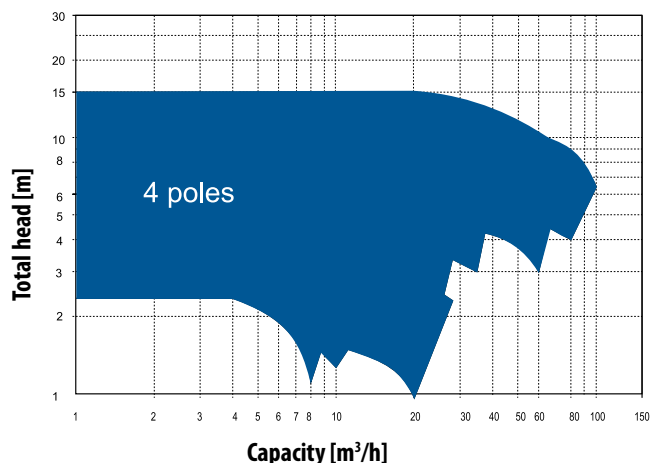
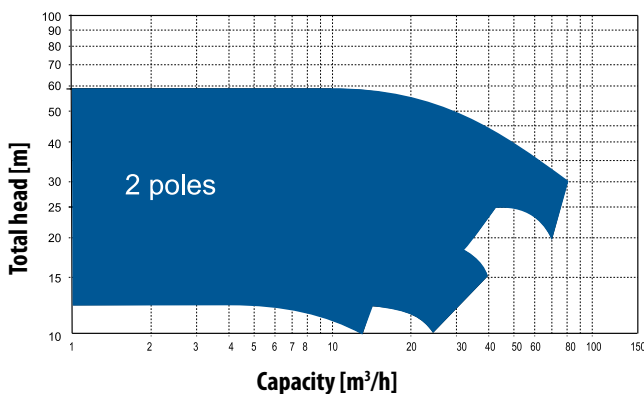
They are also used in:  
general industrial service, dissolved air flotation systems, water/solvent recovery process, steel industry.



## Fast facts

<b>Discharge sizes:</b>	<b>from 3/4 M to DN 65</b>
<b>Maximum working pressure:</b>	<b>up to 8 bar - according to the pump size</b>
<b>Flow rate:</b>	<b>up to 100 m<sup>3</sup>/h</b>
<b>Differential head:</b>	<b>up to 60 m</b>
<b>Temperature:</b>	<b>up to 120°C - according to the pumped liquid</b>
<b>Materials:</b>	<b>AISI 316</b>
<b>Flanges:</b>	<b>PN16 reduced thickness or DIN 11851 food connections</b>

## Selection Charts



## Connections



FLANGED



FOOD CONNECTIONS



# RN Closed Impeller



Centrifugal pumps in according to EN 733 norms.

## FIELDS OF APPLICATION:

Clean and non-aggressive liquids for the pump materials (contents of solids up to 0,2% max).

They are also used for:

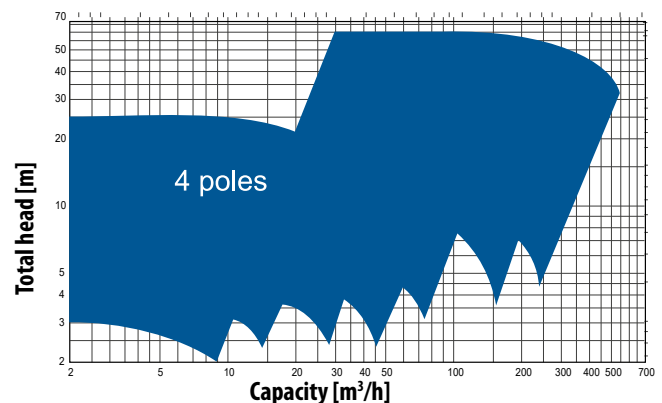
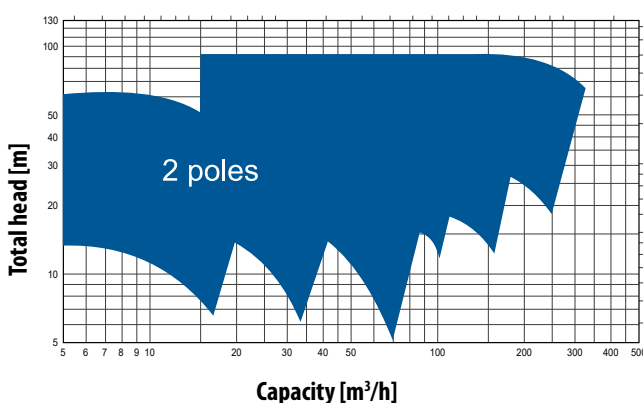
non aggressive industrial liquids, water supply, heating, conditioning, cooling and circulation plants, civil and industrial applications, fire-fighting plants and irrigations.



## Fast facts

Discharge sizes:	from DN 35 to DN 150
Maximum working pressure:	10 bar
Flow rate:	up to 480 m <sup>3</sup> /h
Differential head:	up to 90 m
Temperature:	up to 130°C - according to the pumped liquid
Materials:	CAST IRON GJL200 EN1561, Shaft in AISI 430 or AISI 316, Impeller in CAST IRON GJL200 EN1561 or BRASS according to the pump size

## Selection Charts



## Arrangement



# TS Multistage

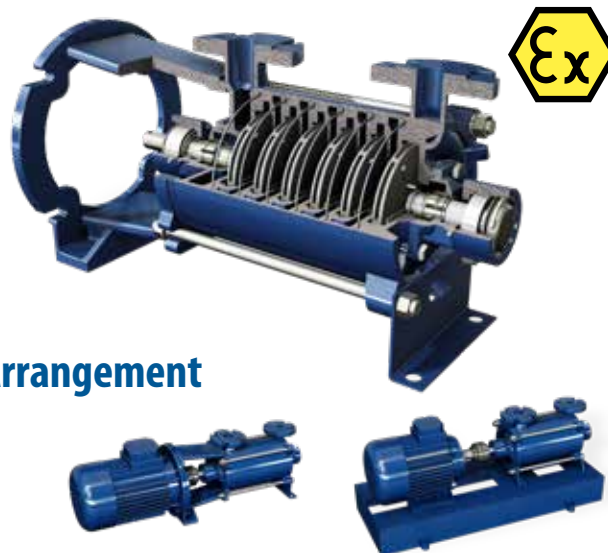
Centrifugal pumps in according to EN 733 norms.

## FIELDS OF APPLICATION:

Clean and non-aggressive liquids for the pump materials (contents of solids up to 0,2% max).

They are also used for:

non aggressive industrial liquids, water supply, heating, conditioning, cooling and circulation plants, civil and industrial applications, fire-fighting plants and irrigations.



Arrangement

## Fast facts

Discharge sizes:	from DN 32 to DN 150
Maximum working pressure:	10 bar
Flow rate:	up to 480 m <sup>3</sup> /h
Differential head:	up to 90 m
Temperature:	up to 130°C - according to the pumped liquid
Materials:	CAST IRON GJL200 EN1561, Shaft in AISI 430 or AISI 316, Impeller in CAST IRON GJL200 EN1561 or BRASS according to the pump size

# RAM Peripheral

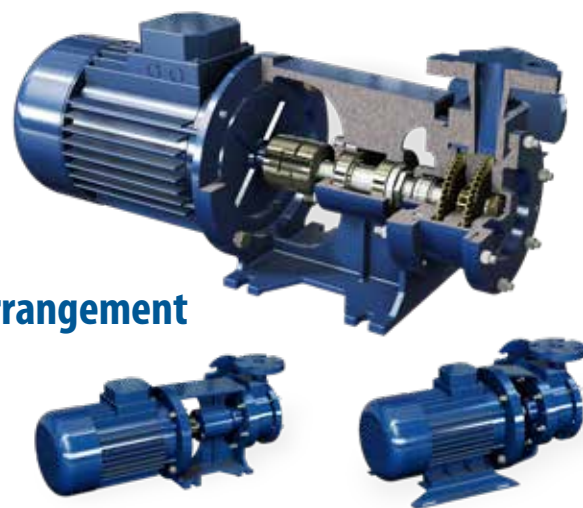
Multistage centrifugal pumps.

## FIELDS OF APPLICATION:

clean liquids without solid parts in suspension.

They are used in:

boiler feeding, washing plants, flotation plants in waste water treatment, and whenever low capacity and high pressure are required.



Arrangement

## Fast facts

Discharge sizes:	from DN 25
Maximum working pressure:	up to 25 bar
Flow rate:	up to 6,3 m <sup>3</sup> /h
Differential head:	up to 180 m
Temperature:	up to 120°C
Materials:	Casing and diffusers in cast iron GJL250, Shaft in AISI 420, impellers in BRASS or AISI 316 SS upon request
Flanges:	PN25

# Product range

## Diaphragm pumps & accessories



**PE & PFTE pumps**



**Metal pumps**



**Pharmaceutical pumps**



**Sanitary pumps**



**TC Intelligent pumps**



**Powder pumps**



**TF Filter press pumps**



**EHEDG aseptic pumps**



**Active pulsation dampeners**



**Systems & accessories**



**Trolleys**



## Centrifugal pumps, filter units & accessories



**CTI & CTH centrifugal pumps**



**CTS self-priming centrifugal pumps**



**CTV vertical centrifugal pumps**



**CTP plastic centrifugal pumps**



**CTM magnetic drive centrifugal pumps**



**Trolleys**



**FT Filter units**

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