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Stainless Steel Pumps

SLR LOBE ROTOR PUMP

The SLR pump is a **lobe rotor positive displacement pump** of a sanitary design suitable for use in the dairies, food-processing, beverage, pharmaceutical and fine chemicals industries.
This pump is perfect for managing all kinds of fluid, of either low or high viscosity, in the food-processing, dairies, and cosmetics industries, as well as for filtering and bottling applications. Fluids containing fragile solids such as junket can be pumped without damage thanks to the specially designed lobes.

Operating principles

The SLR pumps basically consist of two lobe rotors which rotate synchronously inside a casing without touching each other.
As the rotors rotate, the spaces between the lobes and the casing are successively filled with fluid, which is transported to the discharge nozzle with a fixed amount of displacement. The pumped fluid forms a continuous stream thanks to the tolerances between the lobes and the pump casing, thus ensuring an efficient pumping.

Design and features

1. Horizontal support.
2. Bare-shaft construction.
3. Stainless steel casing and lobes.
4. Tri-lobe rotors.
5. Sanitary design of the attachment of the rotors.
6. Sanitary mechanical seals.
7. Easy cleaning and maintenance.
8. Standard connections: DIN 11851.
9. 3A certified pump.

Materials

Parts in contact with the product	AISI 316L
Bearing support	GG 25
Gaskets	EPDM according to FDA 177.2600
Mechanical seal	SiC/C/EPDM
Internal surface finish	Ra ≤ 0,8 µm
External surface finish	bright polish

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HLR HYGIENIC LOBE ROTOR PUMP

Application

The HLR pump is a **lobe rotor pump** designed in compliance with the EHEDG specifications for plants and processes that comply with the strictest hygienic requirements.
Due to the low working speed, the pump is characterised by a gentle pumping and low shear of the product causing less damage possible. It is an ideal pump for the transfer of all types of liquids (from 1 to 1.000.000 cP) and liquids with solid particles (curd, biologic cultivations, etc.).
The pump is adequate for the food-processing, cosmetic and pharmaceutical industries.

Operating principle

The HLR pump basically consists of two lobe rotors which rotate inside the casing without touching each other.
As the rotors rotate, the space between the lobes and the casing is successively filled with the product which is driven to the discharge nozzle displacing a fixed amount of product.
The pumped product forms a continous stream due to the adjusted tolerances of the lobes and the pump casing thus ensuring an efficient pumping.

Design and features

Vertical support.
Bare-shaft construction.
Self-drainable pump.
Tri-lobe rotors.
Hygienic design of the attachment of the lobes.
Sanitary mechanical seal, internal assembly.
The seal is disassembled from the frontal part without disassembling the casing of the pump.
Gaskets with deformation limiters prevent any dead leg.
Easy cleaning and maintenance.
Standard connection: clamp.
Pump certified according to the 3A and EHEDG standards.

Materials

Investment casting casing and lobes	AISI 316L
ball bearing support	GG-25
Gaskets	EPDM according to FDA 177.2600
Mechanisal seal	SiC/C/EPDM
Internal surface finish	Ra ≤ 0,8µm
External surface finish	bright polish

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TLS LOBE ROTOR PUMP

Applications

The TLS pump is a positive displacement lobular rotating pump of a sanitary design providing high performance and maximum reliability with a reduced size.
This pump is perfect for managing all kinds of fluid, of either low or high viscosity, in the food-processing, dairies, and cosmetics industries, as well as for filtering and bottling applications. Fluids containing fragile solids such as junket, can be pumped without damage thanks to the specially designed lobes.

Operating principles

The TLS pumps basically consist of two lobe rotors which rotate synchronously inside a casing without touching each other.
As the rotors rotate, the spaces between the lobes and the casing are successively filled with fluid, which is transported to the discharge nozzle with a fixed amount of displacement. The pumped fluid forms a continuous stream thanks to the tolerances between the lobes and the pump casing, thus ensuring an efficient pumping.

Design and features

Close-coupled construction.
Casing and cover in stainless steel investment casting.
Tri-lobe rotors.
Health-safe design of the attachment of the rotors.
DIN connections (standard).
Sanitary mechanical seals.
Easy cleaning and maintenance.

Materials

Parts in contact with pumped media	AISI 316L
Other parts	AISI 304
Support	GG-15
Gaskets (standard)	EPDM (FDA)
Mechanical seals (standard)	C/SiC/EPDM
Internal surface finish	Ra < 0.8 µm
External surface finish	polished

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RF FLEXIIBLE IMPELLER PUMP

Applications

The RF pump is a **flexible impeller pump**. Because of their design, these pumps are **reversible and self-priming** that can suction from a maximum height of 5 meters. This type of pumps can pump materials of both low and high viscosity, as well as materials containing particles or gases.
Their main uses include pumping in dairies, edible oils, wine, concentrates and beverages in general. They can also be used with viscous food products such as jam and marmalade, confectioner's custard, as well as cosmetic products such as soap, gels, toothpaste, and cosmetic creams. Other applications include the dying, textile and chemicals industries.

Operating principles

Due to the eccentric shape of the pump housing, a vacuum is created in the suction side that enlarges the volume between the blades and this causes the product suction.
The rotor is spinning and the product is carried from the suction side to that of delivery. Due to the eccentric shape of the pump housing, in the discharge side the blades bend, reducing the volume between them and causing the discharge of the product.

Design and features

Bare shaft or close-coupled construction.
Reversible and self-priming pump.
Machined investment casting casing.
Double flat drive of the impeller.
Connections DIN 11851.
External single mechanical seal.
IEC motor: B34, 1500 rpm, 3 ph, 230/400 V, 50 Hz, IP55.
Easy maintenance.
White painted.

Materials

Parts in contact with pumped media	AISI 316L
Lantern and bearing support	GG 22
Other parts	AISI 304
Impeller	Neoprene
Gaskets	NBR
Mechanical seal	Cer/C/NBR
Surface finish	polished, Ra ≤ 0.8 µm

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KIBER KS PROGRESSIVE CAVITY PUMP

Application

The KS/KST/KSF pumps are sanitary **progressive cavity pumps**. Due to the design, they are self-priming and reversible pumps that can suction from a maximum height of 7 meters. These types of pumps transfer products of low and high viscosity as well as products containing particles.
They are widely used to pump edible oils, wine, concentrates and beverages in general as well as viscous food products such as jam and marmalade, pasta, pâté, melted cheese, etc. In the cosmetics industry, these pumps are used in applications involving various cosmetic products such as soap, gels and creams.

Operating principle

Friction between the rotor and the stator creates a vacuum in the inlet area thereby helping the entry of the product into the pump.
The turning motion of the rotor makes the cavities between the rotor and the stator move forward and transport the product to the outlet.

Design and features

Bare shaft or close-coupled construction, model with hopper.
EN 12756 L1K single internal mechanical seal.
DIN 11851 standard connections.
Open transmission (hygienic design).
Painted white.
3A certified pump.
Excentric outlet.

Material

Parts in contact with the product	AISI 316L
Other stainless steel parts	AISI 304
Lantern and bearing support	GG-25
Stator	Black NBR (according to FDA 177.2600)
Gaskets	NBR (according to FDA 177.2600)
Mechanical seal	Cer/C/NBR
Internal surface finish	Ra ≤ 0,8µm
External surface finish	bright polish

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DIN-FOOD HYGIENIC CENTRIFUGAL PUMP

Applications

The DIN-FOOD pump is a **hygienic high capacity centrifugal pump** (up to 1000 m^3/h) designed to cater for an unfulfilled need in the food-processing and chemical and pharmaceutical industries. Its applications include processes in the brewing, dairy and beverage industries in general, as well as in ultra-filtering processes. It can also be used in the textile industry and in some specific processes in the chemical, cosmetics and pharmaceutical industries.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft.
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing with volute manufactured with 8 mm cold-formed plate.
Aseptic flanges according to DIN 11864-2.
Double curvature impeller with blades on the rear side to reduce the axial thrust.
Axial adjustment of the impeller (bare shaft version).
Hygienic mechanical seal.
Fully drainable pump.
Designed according to the 3A and EHEDG standards.
IEC B3 motors (B35 close-coupled constructions), IP 55, F-class insulation.

Materials

Parts in contact with pumped media	AISI 316L
Lantern and bearing support	CF8 / GG-22
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	SiC/C/EPDM
Internal surface finish	Ra ≤ 0.8 µm
External surface finish	Satin finish

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PROLAC S CENTRIFUGAL PUMP

Applications

The Prolac S pump is a **sanitary centrifugal pump** that meets the highest sanitary requirements for use in the food-processing and pharmaceutical industries.
Some of its uses include processes in the brewing, dairies and beverage industries in general, and with the appropriate options it can also be used in complex applications such as evaporators, concentrators, distillation towers, decanting of syrups, and purified-water loops in the pharmaceutical industry.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft .With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
DIN connections (standard).
Open impeller manufactured with stainless steel investment casting technology.
Sanitary mechanical seal.
Pump certified according to 3A sanitary standards.
Very robust stainless steel cast lantern.
IEC B5 motors (B14 for S-15, B35 motors T.200, 225, 250 and B3 for close-coupled models), IP55, F-class insulation.
Pump support from AISI 304.

Materials

Parts in contact with pumped media	AISI 316L
Other parts in stainless steel	AISI 304
Gaskets (standard)	EPDM
Mechanical seal (standard)	St.St./C/EPDM
Inside surface finishing	Ra < 0.8 µm.
Outside surface finishing	Mirror polished

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DIN TEX CENTRIFUGAL PUMP

Applications

The DIN-TEX is a sanitary high-capacity centrifugal pump (up to 1000m^3 /h). It is designed to work with a basic or semi-finished product. Its applications also include processes of the food-processing industry like wine-making, or textile and chemical industries which are not characterised by strict hygienic requirements.
Owing to the high flow, the pump is also suitable for the transfer of cleaning solutions.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft. With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

8 mm cold-formed plate casing with volute.
Flanges: PN16 according to DIN2633.
Double-curvature impeller with blades on the rear side.
Axial adjustment of the impeller.
Single mechanical seal according to EN12756 L1K.
Fully-drainable pump.
IEC B3 (B35 close-coupled models) motors, IP55, F-class insulation.
Drain port: G ½" (BSP).

Materials

Parts in contact with pumped media	AISI 316L
Lantern and bearing support	GG-22
Gaskets (standard)	EPDM according to FDA
Mechanical seal (standard)	SiC/C/EPDM
Intenal surface finish of the casing and impeller	Blasted
External surface finish	Blasted

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HYGINOX SE CENTRIFUGAL PUMP

Applications

The Hyginox SE pump is a **centrifugal pump** manufactured in stainless steel and with a shrouded motor.
Its sanitary and cost-efficient design makes it perfect for the dairies, beverages, food-processing, pharmaceutical and fine chemicals industries.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft.
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
DIN connections (standard).
Open impeller manufactured with stainless steel investment casting.
Mechanical seal according to DIN 24960 L1K.
AISI 304 motor shroud.
Adjustable stainless steel legs.
Pump certified according to 3A sanitary standards.
IEC B34 motors, IP 55, F-class insulation.

Materials

Parts in contact with pumped media	AISI 316L
Other parts	AISI 304
Gaskets	EPDM
Mechanical seal	C/SiC/EPDM
Inside surface finish	Ra < 0.8 µm
Outside surface finish	Mirror polished

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CENTRIFUGAL PUMP HYGINOX SH

Applications

The Hyginox SH pump is a **centrifugal pump** manufactured in stainless steel with steel lantern. This pump is specially designed to meet the requirements of applications such as filtering, bottling, CIP supply, and auxiliary services in the chemical industry.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
DIN connections (standard).
Open impeller manufactured with stainless steel investment casting technology.
Mechanical seal according to DIN 24960 L1K.
Pump certified according to 3A sanitary standards.
Motor according to IEC B35 standards.
IEC B35 motors (B34 for SH-15), IP55, F-class insulation.

Materials

Parts in contact with pumped media	AISI 316L
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	C/SIC/EPDM
Lantern	GG-15
Inside surface finishing	Ra < 0.8 µm
Outside surface finishing	Mirror polished

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HYGINOX SN CENTRIFUGAL PUMP

Applications

The Hyginox SN pump is a **centrifugal stainless-steel pump** suitable for motor assembly according to the USA NEMA stantards.
This pump is specially designed for the dairies, beverages, and food-processing, as well as CIP supply and auxiliary services in the chemical industry.

Operating principle

Housed inside the casing, the impeller rotates in conjunction with the pump shaft.
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
Clamp connections.
Open impeller manufactured with stainless steel investment casting technology.
Mechanical seal according to DIN 24960 L1K.
Pump certified according to 3A sanitary standards.
Suitable for NEMA-C motors.

Materials

Parts in contact with pumped media	AISI 316L
Other parts	AISI 304
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	C/SiC/EPDM
Lantern	GG-15
Inside surface finishing	Ra < 0.8 µm
Outside surface finishing	Mirror polished

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ESTAMPINOX EFH CENTRIFUGAL PUMP

Applications

The Estampinox EFH pump is a stainless steel centrifugal pump with a steel lantern for decanting water and other fluids.
It is designed to cater for the needs of all the auxiliary services in the food-processing, chemical, pharmaceutica, wine-making industries, etc.

Operating principles

Housed inside the casing, the impeller rotates in conjunction with the pump shaft.
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
BSP/GAS connections (standard).
Open impeller manufactured with stainless steel cold-formed plate or investment casting motor according to model.
Inside mechanical seal.
Simple parts and easy maintenance.
IEC B35 motors (B34 for EFH-200), IP55, F-class insulation.

Materials

Parts in contact with pumped media	AISI 316L
Lantern	GG-15
Other parts	AISI 304
Gaskets (standard)	VMQ (Silicone)
Mechanical seal (standard)	Cer/C/NBR
Surface finish	Electroplished

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ESTAMPINOX EFI CENTRIFUGAL PUMP

Applications

The Estampinox EFI pump is a stainless-steel centrifugal pump for decanting water and other fluids.
It is designed to cater for the needs of all the auxiliary services in the food-processing, chemical, pharmaceutical, and wine-making industries, among others.

Operating principles

Housed inside the casing, the impeller rotates in conjunction with the shaft.
With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
The pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
BSP/GAS connection (standard).
Open impeller manufactured with stainless steel cold-formed plate or investment casting (according to model).
Inner mechanical seal.
Simple parts and easy maintenance.
Motor according to IEC B34 standards.

Materials

Parts in contact with pumped media	AISI 316L
Other parts	AISI 304
Gaskets (standard)	VMQ (Silicone)
Mechanical seal (standard)	Cer/C/NBR
Surface finish	Electro polished

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ESTAMPINOX EFN CENTRIFUGAL PUMP

Applications

The Estampinox EFN pump is a centrifugal stainless-steel pump suitable for motor assembly according to the USA NEMA stantards.
It is designed to cater for the needs of all the auxiliary services in the food-processing, chemical, pharmaceutical, and wine-making industries, among others.

Operating principles

Housed inside the casing, the impeller rotates in conjunction with the pump shaft .With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
This pump is not reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

Design and features

Casing manufactured with cold-formed plate.
Clamp connections (standard).
Open impeller manufactured with stainless steel cold-formed plate
or investment casting (according to model).
Inside mechanical seal.
Simple parts and easy maintenance.

Materials

Parts in contact with pumped media	AISI 316L
Gaskets (standard)	VMP (Silicone)
Mechanical seal (standard)	Cer/ C /NBR
Lantern	GG-15
Surface finish	Electropolished

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RVS HELICOIDAL IMPELLER PUMP

Application

The RVS **pump** is a high efficiency pump. Due to the helicoidal design of the impeller, it allows to pump delicate products without damaging them, e.g. solid particles suspended in water (proportion: 40% to 60%).
It is intended for pumping pieces of fruit or whole fruits, olives, mushrooms, orange segments, vegetables, fish, etc.
In comparison with the the RV_XX range, the RV_XXR pumps are provided with a bearing suppport in the lantern for work with viscous products and for applications provoking an increased axial stress.

Operating principle

Due to the helicoidal shape of the impeller, the pump lets solid particles pass without destroying their structure, thus, avoiding any damage to the product during the transfer and preserving its quality.

Design and features

Close-coupled design.
Helicoidal impeller.
Pump casing with drain port.
Pump casing with eccentric volute.
High efficiency (>70%), low power consumption.
Motor: IEC B35 1500 rpm.
Mechanical seal: EN 12756 (DIN 24960 L1K).
Connections: DIN 11851.
Bearing support integrated into the lantern (RVS-80R and RVS-100R).
Maximum particle size: ø 75mm.

Materials

Parts in contact with the product	AISI 316L
Lantern	AISI 316L
Other st.st. parts	AISI 304
Bearing support (RVS_XXR)	GG 25
Gaskets	EPDM
Mechanical seal	SiC/SiC/EPDM
Internal surface finish	Ra ≤ 0,8 µm
External surface finish	mirror polish

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RVi INDUSTRIAL HELICOIDAL IMPELLER PUMP

Application

The RV **pump** is the best solution for the transfer of liquid/solid blended products or medium viscosity products that cannot be pumped with an ordinary centrifugal pump.
Due to the helicoidal shape of the impeller, the transfer of the product is gentle and without clogging.
It is ideal for applications of the transfer of semi-finished products, product remains, waste, etc. in the food-processing industry and vanishes, glues, wastewaters in the chemical industry.
In comparison with the the RV_XX range, the RV_XXR pumps are provided with a bearing suppport in the lantern for work with viscous products and for applications provoking an increased axial stress.

Operating principle

Due to the helical shape of the impeller, the **pump** lets solid particles pass without destroying their structure and the flow is optimized to avoid its obstruction.

Design and features

Close-coupled design.
Helicoidal impeller.
Pump casing with drain port.
Pump casing with eccentric volute.
High efficiency (>70%), low power consumption.
Motor: IEC B35 1500 rpm.
Mechanical seal: EN 12756 (DIN 24960 L1K).
Connections: DIN 11851.
Bearing support integrated into the lantern (RV-80R and RV-100R).
Maximum particle size: ø75mm.

Materials

Parts in contact with the product	AISI 316L
Lantern	AISI 316L
Other stainsless steel parts	AISI 304
Bearing supports (RV_XXR)	GG 25
Gaskets	EPDM
Mechanical seal	SiC/SiC/EPDM
Internal surface finish	Electropolished
External surface finish	Electropoli

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MS MULTISTAGE CENTRIFUGAL PUMP

Applications

The MS pump is a multi-impeller centrifugal pump. This type of pumps is used for pumping fluids at low output and high pressure, thereby achieving a much higher performance than single-stage centrifugal pumps. Their applications include processes in the dairies and beverage industries, such as filter feeding, filling systems and feeding of exchangers. They can also be used to pump drinking or process water, CIP cleaning systems, and in the textile industry.

Operating principles

The MS pump consists of an inlet body and outlet body, and between the inlet and the outlet one to six successive stages can be added.Each stage consists of a casing and an impeller.
The first impeller receives the pumped material from the inlet area of the pump, and every next impeller receives the material from the preceding impeller, until the last impeller drives the product through the outlet of the pump.
Each stage impels to the fluid an amount of pressure according to the power of the impeller, and the differential pressure of the pump is the sum of the pressure added by each of the successive stages.

Design and features

Close-coupled pump without shroud.
Cold-formed bodies and covers.
DIN connections (standard).
Cold-formed close impellers.
Motor approved according to IEC. B34 constructive design.
Single internal mechanical seal according to DIN 24960 L1K.

Materials

Parts in contact with pumped med	AISI 316L
Lantern and bearing support	GG-22
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	SiC/SiC/EPDM

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ASPIR SELF-PRIMING PUMP

Applications

The Aspir pump is a sanitary, side-channel, **self-priming pump** suitable for use in the food-processing, pharmaceutical and chemical industries.
It is specially designed for pumping materials containing air or gas, and it can also be used for negative suction with prior priming as well as with filtration equipment.
It can be used with wine, oil, syrups, volatile products such as alcohol, acetone and other solvents, or with products at temperatures close to boiling point. However, the main use of this pump is for CIP return.

Operating principles

The impeller is housed between the inlet body and the venturi casing and it rotates in conjunction with the pump shaft.This arrangement, together with the rotation of the impeller and the arrangement of the side channel, creates a negative pressure inside the inlet body, which generates the suction force of the pump. At the same time, the fluid receives energy in the form of kinetic energy and pressure energy, and this impels it through the impeller casing.

Design and features

Casing manufactured with cold-formed plate.
Stainless steel investment casting inletbody and venturi.
Star-shaped floating impeller manufactured with investment casting technology.
External mechanical seal that prevents contact between the springs and the pumped fluid.
Very robust stainless steel-cast lantern.
Pump support of stainless steel.

Materials

Parts in contact with pumped media	AISI -316
Other parts	AISI-304
Gaskets (standard)	EPDM (FDA)
Mechanical seal (standard)	C/SiC/EPDM
Surface finishing	Electro polished

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PROLAC SA SELF-PRIMING PUMP

Application

The Prolac SA pump is a centrifugal pump specially designed to pump liquids containing air or gas without losing its pumping power. It can be used in the food-processing, pharmaceutical and chemical industries.
It can also be used with wine, oil, syrups, volatile products such as alcohol, acetone and other solvents, or with products at temperatures close to boiling point.
However, the main use of this pump is for CIP return.

Operating principle

The Prolac SA pump is a self-priming pump which does not require the use of a vacuum pump or other devices such as a foot valve or additional piping.
The pump must be primed with liquid only once before starting-up. When it is operated, the pump suctions the air or gas present inside the suction pipe and mixes it with the fluid inside the pump casing. The centrifugal force drives the liquid-gas mixture to the higher part of the casing. Due to the large dimensions of the casing, the fluid looses the speed and the air is expelled through the drive pipe.
Thus, the air is eliminated along the suction pipe before the liquid reaches the pump casing and then the pump operates as normal centrifugal pump.
It is very important that the suctioned air can escape when running along the discharge pipe without being subject to any kind of counter-pressure.
Users are strongly advised not to reduce the hydraulic power of the pump by reducing the size of the impeller or reducing the speed of the motor by means of a frequency converter since this would affect the suction power of the pump.

Design and features

Welded casing manufactured in cold-formed plate.
Very robust stainless steel lantern.
Open investment cast impeller.
DIN connections.
Sanitary mechanical seal.
Check valve in the suction nozzle to avoid siphoning when the pump stops.

Materials

Parts in contact with the product	AISI 316L
Other parts	AISI 304
Gaskets	EPDM according to FDA 177.2600
Mechanical seal	St.St./C/EPDM
External surface finish	bright polish

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SLR-A LOBE ROTOR PUMP

Application

The SLR-A pump is a positive displacement lobe rotor pump designed to transfer abrasive products. The pump offers high perfromance and reliability. It is characterised by a reduced size, detachable connections and rectangular casing inlet.
The SLR-A pump is designed to pump olive mass. The main application is the transfer of the mass from the thermobeater to the decanter and the transfer of alperujo, solid olive-mill by-product, from the thermobeater to the decanter.

Operating principle

The SLR-A pump basically consists of two wing-lobe rotors which rotate inside the casing without touching each other.
As the rotors rotate, the space between the lobes and the casing is successively filled with the product which is driven to the discharge nozzle displacing a fixed amount of product.
The pumped product forms a continuous stream due to the adjusted tolerances between the lobes and the pump casing, thus, ensuring an efficient pumping.

Design and features

Close-coupled construction with elastic coupling.
Casing and covers with anti-wear plates.
Wing-lobes treated for work with abrasive products.
Lobes attached with hexagonal screws.
Detachable connections: DIN 11851.
Easy disassembly and maintenance.
Low maintenance service costs due to the anti-wear plates covering the parts in contact with the product.
90° adjustable casing and inlet/outet.

Materials

Parts in contact with the product	Anti-wear material
Support	GG 25
Gaskets	NBR
Retainer	FPM

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OLIVE TRANSFER EQUIPMENT RV-100R SP

Application

The RV-100R SP equipment consists of a high capcity helicoidal impeller pump (RV-100R) and a vacuum pump (SP module) that automates the primnimg process.
The main application is in the food-processing industry: transfer of olives with the self-priming capacity. The equpment transfers from 20.000 to 80.000 kg/h of olives, the capacity depends on the size of olives and the their concentration determined by the position of the sliding screen situated in the aspiration pipe.

Operating principle

The operating principle of the helicoidal impeller pump borrows its characteristics from the mixed flow centrifugal pumps. The impeller has only one vane, it is housed inside the pump casing and rotates in conjunction with the shaft, conveying the kinetic and pressure energy to the liquid. Then, in the volute of the casing the transformation of this energy results in the form of pressure.
The vacuum module consists of liquid ring vacuum pump, separating tank and a level sensor to detect the presence of liquid in the casing.
The devise permits to actuate the big size ball valve instealled at the outlet of the pump.
The pump for the return of the excess brine (RV, Hyginox or Estampinox) is selected regarding the equipment pump capacity and the concentration of solid particles.

Design and features

Investment casting pump casing with drain port and eccentric volute.
Standard connections DIN 11851.
Mechanically balanced helicoidal impeller of double curvature with a single vane.
Bearing support in the lantern.
Sanitary mechanical seal.
Close-coupled pump with trolley.
Motor IEC IP55, F-class insulation.
Motor shroud.
Polyester control panel with frequency converter.
3A certified pump.

Materials

Parts in contact with the product	AISI 316L
Other st.st. parts	AISI 304
Gaskets	EPDM according to FDA 177.2600
Mechanical seal	SiC/SiC/EPDM
Internal surface finish	Ra ≤ 0,8 µm
External surface finish	Mirror polish

Technical specifications

Max.flow	180 m^3/h	793 US GPM
Max.differential head	22 mwc	72 ft
Max.working pressure	10 bar	145 PSI
Max.working pressure	-10 °C to +120 °C (EPDM)	14 °F to 248 °F
	+140 °C (SIP, max. 30 min)	284 °F
Max.speed	1800 rpm	