



WINTER.pumpen



PRODUCT OVERVIEW

SERIES AND CONFIGURATIONS





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WINTER.group

From the initial idea to the finished product: Through internal manufacturing in our facilities, we have full control over the entire production process. From material selection to final machining and the ultimate measurement on our test bench. This enables us to be flexible in addressing individual customer requirements and providing customized solutions.

DEVELOPMENT, DESIGN, AND PATTERN MAKING

Our team has extensive experience in designing components and assemblies for various applications. In our model-making department, models are manufactured for the foundry.

HOUSING PARTS FROM OUR FOUNDRY

At **Eisengießerei Kronach Thomas Winter GmbH**, housing parts are cast and mechanically processed. For consistently high quality, state-of-the-art equipment and our experienced staff are essential.

STATE-OF-THE-ART SHEET METAL AND STEEL WORK

At our metalworking facility, **Krauss Lüftungsbau GmbH** in Langenzenn, various frames and sheet metal parts are manufactured using state-of-the-art welding robots, laser cutting, and bending machines.

MACHINING AND MANUFACTURING

Our turning shop and milling shop at the plant in Hilpoltstein enable the machining of all cutting components and manufacturing processes, ensuring consistent high precision and control.

CONTROL CABINET CONSTRUCTION

We also design and manufacture control cabinets for complex pump systems such as sprinkler units or vacuum systems. These control cabinets are essential for the control and monitoring of the systems and are manufactured according to strict technical standards.

ASSEMBLY AND MEASUREMENTS

Our assembly department is responsible for the careful and precise assembly of all components. Finally, the performance of our pumps is verified through our in-house test bench to ensure consistently outstanding quality for our customers.

CONFIGURATION A



Norm pumps configuration A are single-stage, non-self-priming volute casing pumps with a bearing bracket.

SERVICE DATA

Flow rate	Q up to 2,200 m ³ /h
Delivery head	H up to 92 m
Medium temperature ¹⁾	t from -20°C up to +140°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids, cold and hot water, condensate, oils, brines, heat transfer oils, leaches and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft protective sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adjustment to the operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industry and plant engineering
- Shipbuilding
- Water supply
- Sprinkler irrigation
- Drainage
- Water treatment

CONFIGURATION U



Norm pumps configuration U are single-stage, non-self-priming volute casing pumps with a bearing pedestal.

SERVICE DATA

Flow rate	Q up to 1,200 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from -20°C up to +140°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids, cold and hot water, condensate, oils, brines, heat transfer oils, leaches and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft protective sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Performance ratings and main dimensions comply with NF E 44-112
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Different position of pressure socket possible
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industry and plant engineering
- Shipbuilding
- Water supply
- Irrigation
- Drainage
- Water treatment

CONFIGURATION LT



Norm pumps configuration LT are single-stage, non-self-priming volute casing pumps with a bearing bracket in process design.

SERVICE DATA

Flow rate	Q up to 2,200 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from -20°C up to +140°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids, cold and hot water, condensate, oils, brines, heat transfer oils, leaches and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft protective sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Performance ratings and main dimensions comply mostly with DIN EN 733
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Water supply
- Sprinkler irrigation
- Drainage
- Water treatment
- Shipbuilding
- Industry and plant engineering

CONFIGURATION M



Norm block pumps configuration M are single-stage, non-self-priming volute casing pumps. The pump is fitted with a standard motor and an extended special shaft.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 92 m
Medium temperature ¹⁾	t from -20°C up to +110°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly contaminated liquids, cold and hot water, oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft protective sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Performance ratings and main dimensions comply mostly with DIN EN 733
- Individual adjustment to the operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Different position of pressure socket possible
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Water supply
- Shipbuilding
- Drainage
- Water treatment
- Sprinkler irrigation
- Industry

CONFIGURATION N



Norm pumps configuration N are single-stage, non-self-priming volute casing pumps with stub shaft.

SERVICE DATA

Flow rate	Q up to 2,200 m ³ /h
Delivery head	H up to 92 m
Medium temperature ¹⁾	t from -20°C up to +130°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids, cold and hot water, condensate, oils, brines, heat transfer oils, leaches and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Compact design
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Performance ratings and main dimensions comply mostly with DIN EN 733
- Individual adjustment to the operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Different position of pressure socket possible
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Water supply
- Shipbuilding
- Drainage
- Water treatment
- Sprinkler irrigation
- Industry

TYPE SERIES 21



Centrifugal pumps type series 21 are single-stage, non-self-priming pumps of close-coupled design.

SERVICE DATA

Flow rate	Q up to 42 m ³ /h
Delivery head	H up to 34 m
Medium temperature ¹⁾	t from 0°C up to +120°C
Operating pressure ²⁾	p up to 5 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids, cold and hot water, oils, weak leaches and acids.

MATERIALS

The standard materials for the pump casing and impeller are grey cast iron, bronze, copper-aluminium alloy or stainless steel. The shaft is made of high-quality duplex stainless steel. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3, hydraulic motor or submersible motor. Other configurations and motor types available on request.

BENEFITS

- Very space-saving and compact design
- Also available as an inline or submersible pump
- Available with an automatic priming system
- Sealing with high-quality mechanical seal of bellows type
- Good price-performance ratio
- Suction and discharge ports with threaded connections; other connection types on request
- Various special configurations available

FIELDS OF APPLICATION

- Filtration system engineering
- Water treatment
- Shipbuilding
- Industrial and plant engineering
- Construction machinery
- Cleaning systems
- Sprinkler systems
- Agriculture

CONFIGURATION WSCA



Centrifugal pumps configuration WSCA are double-suction pumps of highly robust design.

SERVICE DATA

Flow rate	Q up to 4,000 m ³ /h
Delivery head	H up to 25 m
Medium temperature ¹⁾	t from -10°C up to +120°C
Operating pressure ²⁾	p up to max. 6 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Clean water and slightly contaminated liquids.

MATERIALS

The standard materials for the pump casing, casing cover and impeller are cast iron and bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Corrosion-resistant, replaceable wear rings
- Flange in allusion to ISO 7005
- Broad range of performance
- Individual adjustment to the operating point
- Specially designed for harsh operating conditions
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Shipbuilding
- Industrial and plant engineering
- Aquaculture
- Irrigation
- Drainage
- Water supply
- Agriculture

TYPE SERIES E



Multistage centrifugal pumps type series E, configuration V (vertical) and configuration LL (horizontal), are non-self-priming pumps.

SERVICE DATA

Flow rate	Q up to 180 m ³ /h
Delivery head	H up to 400 m
Medium temperature ¹⁾	t from -20°C up to +140°C
Operating pressure ²⁾	p up to 40 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on the selected materials, suitable for clean and slightly contaminated liquids, cold, hot and salt water, oils, mild alkalis and acids.

MATERIALS

The standard materials for the pump casing and impellers are cast iron, ductile cast iron, bronze, copper-aluminium alloy, 1.4408 or 1.4469. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Available with an internal combustion engine. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings
- Flange in allusion to ISO 7005
- Sealing with high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Various nozzle orientations available
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)
- Various special configurations available

FIELDS OF APPLICATION

- Industrial and plant engineering
- Shipbuilding
- Offshore
- Water supply
- Cleaning systems
- Booster stations
- Fire-fighting technology
- Agriculture
- Building infrastructure
- Irrigation
- Drainage

TYPE SERIES E350



Centrifugal pumps type series E350 are horizontal, non-self-priming, five-stage pumps.

SERVICE DATA

Flow rate	Q up to 23 m ³ /h
Delivery head	H up to 59 m
Medium temperature ¹⁾	t from -5°C up to +80°C
Operating pressure ²⁾	p up to 5.5 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Clean water. Salt water applications on request.

MATERIALS

The standard materials for the pump casing and impeller are glass-fibre-reinforced plastic (GRP). The shaft is made of 1.4104, 1.4122 or 1.4462 stainless steel.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- 100% testing of all pumps
- Lower vibration and noise levels than comparable sheet-steel pumps
- Connections via G2" male threads
- Sealing with high-quality mechanical seal of bellows type.
- Various discharge nozzle orientations available
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Pump and motor are galvanically isolated in the GS configuration
- Type-approved configuration: tested in accordance with EN 60601-1:2006/A1:2013 (Medical electrical equipment)

FIELDS OF APPLICATION

Without type approval

- Water supply
- Sprinkler irrigation
- Irrigation
- Drainage
- Plant engineering
- Medical massage tables without direct patient contact

With type approval

- Medical hydrotherapy
- Electrogalvanic baths

TYPE SERIES WVMS / WVX



Centrifugal pumps type series WVMS/WVX are multistage, non-self-priming, vertical pumps in inline configuration.

SERVICE DATA

Flow rate	Q up to 20 m ³ /h
Delivery head	H up to 250 m
Medium temperature ¹⁾	t from -30°C up to +140°C
Operating pressure ²⁾	p up to 25 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾
- Operating pressure = inlet pressure + max. pressure of the product
 - Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold, hot and salt water, oils, mild alkalis and acids.

MATERIALS

The standard materials for the pump casing and impeller are stainless steel 1.4301 (WVMS), stainless steel 1.4401 (WVMSL) and cast iron (WVMSG).

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3 or IE4.

BENEFITS

- High efficiency
- Use of standard IEC motors
- Many connection types available (round flange / loose flange / oval flange / Victaulic® / clamp)
- Easy replacement of the shaft seal thanks to a cartridge mechanical seal – without removing the motor bracket
- Broad range of performance
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Various drinking water approvals
- A speed controller can be mounted directly with a commercially available sensor (connection provided), for example to maintain constant pump pressure for the application and save energy

FIELDS OF APPLICATION

- Water treatment
- Condensate systems
- Washing and cleaning
- Cooling
- Pressure boosting
- Shipbuilding
- Industrial and plant engineering
- Sprinkler, fire-fighting systems
- Irrigation
- Agriculture

CONFIGURATION IM



Centrifugal pumps configuration IM are single-stage, non-self-priming pumps in inline configuration. Standard motor with extended special shaft.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from -20°C up to +110°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold and hot water, condensate, oils, brines, heat transfer oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Particularly compact design
- Easy integration into piping thanks to the inline configuration
- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adaptation to the required operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Water supply
- Shipbuilding
- Sprinkler irrigation

TYPE SERIES 21-IM



Centrifugal pumps type series 21-IM are single-stage, non-self-priming pumps in inline configuration.

SERVICE DATA

Flow rate	Q up to 42 m ³ /h
Delivery head	H up to 34 m
Medium temperature ¹⁾	t from 0°C up to +120°C
Operating pressure ²⁾	p up to 5 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold and hot water, oils, mild alkalis and acids.

MATERIALS

The standard materials for the pump casing and impeller are grey cast iron, bronze, copper-aluminium alloy or stainless steel. The shaft is made of high-quality duplex stainless steel. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3, hydraulic motor or submersible motor. Other configurations and motor types available on request.

BENEFITS

- Very space-saving and compact design for direct installation in piping
- Also available in close-coupled configuration or as a submersible pump
- Available with an automatic priming system
- Sealing with high-quality mechanical seal of bellows type
- Good price-performance ratio
- Suction and discharge nozzles with flanged connections; other connection types available on request
- Various special configurations available

FIELDS OF APPLICATION

- Filtration system engineering
- Water treatment
- Shipbuilding
- Industrial and plant engineering
- Construction machinery
- Cleaning systems
- Sprinkler systems
- Agriculture
- Yachts and superyachts

CONFIGURATION IN



Centrifugal pumps configuration IN are single-stage, non-self-priming pumps in inline configuration. Pump with standard motor and stub shaft.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from -20°C up to +110°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold and hot water, condensate, oils, brines, heat transfer oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Compact design
- Easy integration into piping thanks to the inline configuration
- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adaptation to the required operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Water supply
- Shipbuilding
- Sprinkler irrigation

CONFIGURATION IA



Centrifugal pumps configuration IA are single-stage, non-self-priming pumps in inline configuration with bearing bracket.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from -20°C up to +110°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold and hot water, condensate, oils, brines, heat transfer oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Easy integration into piping thanks to the inline configuration
- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adaptation to the required operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Available with an automatic priming system
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Shipbuilding
- Water supply
- Sprinkler irrigation

CONFIGURATION U / LT



Sprinkler pumps configuration U and LT are single-stage, non-self-priming volute casing pumps with a bearing pedestal (U) or bearing bracket (LT), in process design.

SERVICE DATA

Flow rate	Q up to 648 m ³ /h
Delivery head	H up to 142 m
Medium temperature ¹⁾	t up to max. +40°C
Operating pressure ²⁾	p up to 16 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Clean water.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3 or diesel engine. Various special configurations available on request.

BENEFITS

- Replaceable shaft sleeve
- Corrosion-resistant wear rings
- Flange in allusion to ISO 7005
- In accordance with VdS guideline 2100, 5/88 for water-based fire-extinguishing systems
- Broad range of performance
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs

FIELDS OF APPLICATION

- Sprinkler systems
- Fire-fighting systems

STANDARDS AND APPROVALS

- VdS
- EN 12845 /
- EN 12259-12
- DIN 14462
- FM Global
- NFPA 20
- CNBOP

BOOSTER STATION FIRE BOOST FB1 / FB2



Fire-fighting booster stations (DEA) “Fire Boost” FB1 and FB2 for indirect or direct connection to drinking water separation stations or on-site break tanks, for fire-fighting applications with Type S and F wall hydrants. Fully automatic single- or twin-pump booster station in compact configuration for fire water supply.

SERVICE DATA

Flow rate	Q up to 96 m ³ /h
Delivery head	H up to 163 m
Medium temperature ¹⁾	t up to max. +40°C
Operating pressure ²⁾	p up to 16 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

For pumping clean water (fire water).

MATERIALS

The standard materials for the pump casing and impeller are stainless steel. Stainless steel break tank approved in accordance with DIN EN 1717. Unit base frame with high-quality ACC coating for optimum corrosion protection.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations available on request.

BENEFITS

- Maximum service life due to high-quality materials and robust construction
- Service-friendly design
- All wetted parts made of stainless steel 1.4301
- Flange in allusion to ISO 7005
- Broad range of performance

FIELDS OF APPLICATION

- Wall hydrants
- Above-ground and underground hydrants
- Customised systems

STANDARDS AND APPROVALS

- DIN 14462

TYPE SERIES P



Propeller pumps type series P are single-stage, non-self-priming axial-flow pumps.

SERVICE DATA

Flow rate	Q up to 5,200 m ³ /h
Delivery head	H up to 15 m
Medium temperature ¹⁾	t from 0°C up to +80°C
Operating pressure ²⁾	p up to 6 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Flow direction can be reversed, by reversing the drive direction (reversible design)
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request
- Especially made for very high flow rates and low Delivery heads
- Flange in allusion to ISO 7005
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Shipbuilding
- Industry and plant engineering
- Water supply
- Water treatment
- Aquaculture

TYPE SERIES R



Propeller pumps type series R are single-stage or multi-stage, non-self-priming axial pumps with permanent magnetic motor.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 23 m
Medium temperature ¹⁾	t from 0°C up to +60°C
Operating pressure ²⁾	p up to 6 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, clean and slightly soiled liquids.

MATERIALS

The standard material for the pump casing and motor is ductile cast iron. The impeller and connection diffusers are made of bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise permanent magnet motor with high efficiency. A suitable frequency converter is required for operation.

BENEFITS

- Modular expansion possible (multistage design)
- Highest efficiency (permanent magnet motor)
- Particularly quiet in operation
- Virtually maintenance-free
- Special configuration for turbine operation (regenerative energy recovery)
- Special configuration with submersible motor available
- Flow direction can be reversed by changing the motor direction of rotation (reversible design)
- Flow-optimised, low-loss casing geometry
- No shaft seal required by design
- Excellent regulation of pump performance (supplied with a frequency converter as standard)
- Compact, space-saving construction
- Innovative, patented construction
- Flange in allusion to ISO 7005
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Water treatment
- Shipbuilding
- Aquaculture
- Water supply

TYPE SERIES H



Propeller pumps type series H are single-stage, normal-priming axial inline design pumps.

SERVICE DATA

Flow rate	Q up to 3,200 m ³ /h
Delivery head	H up to 20 m
Medium temperature ¹⁾	t from 0°C up to +60°C
Operating pressure ²⁾	p up to 6 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids.

MATERIALS

The standard material for pump casing and impeller is bronze (also available in cast iron). Materials can be customized according to individual demands.

MOTOR

IEC standard three-phase motor in efficiency class IE3. Gearbox and bearing bracket can be replaced as a module. Other configurations and motor types available on request.

BENEFITS

- Reversal of the flow direction by reversing the drive direction (reversible design)
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Heavy-duty right-angle gearbox
- Broad range of performance
- Flange in allusion to ISO 7005
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Water treatment
- Aquaculture
- Water supply

TYPE SERIES K



Propeller pumps type series K are single-stage, normal-priming axial pumps.

SERVICE DATA

Flow rate	Q up to 530 m ³ /h
Delivery head	H up to 6 m
Medium temperature ¹⁾	t from 0°C up to +80°C
Operating pressure ²⁾	p up to 6 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids.

MATERIALS

The standard material for pump casing and impeller is GGG-40. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. The bearing bracket is fully replaceable. Other configurations and motor types available on request.

BENEFITS

- Flow direction can be reversed by changing the motor direction of rotation (reversible design)
- Lightweight and compact design
- Cost-effective purchase
- Maintenance-friendly
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Designed specifically for very high flow rates and low heads
- Motor power is transmitted by belt, avoiding costly repairs associated with gearbox replacement
- Flange in allusion to ISO 7005

FIELDS OF APPLICATION

- Industrial and plant engineering
- Cleaning systems
- Water treatment
- Aquaculture

TYPE SERIES 123 G



Immersion pumps type series 123 G are single-stage volute casing pumps with a column pipe and channel impeller.

SERVICE DATA

Flow rate	Q up to 28 m ³ /h
Delivery head	H up to 12.5 m
Medium temperature ¹⁾	t from 0°C up to +90°C
Installation depth	up to max. 2 m

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

CONVEYING MEDIUM

Clean or slightly contaminated cold water, rainwater and chemically neutral condensates.

MATERIALS

The standard material for pump casing and impeller is cast iron. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3 or single-phase AC motor. Other configurations and motor types available on request.

BENEFITS

- Connections with threaded companion flanges
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Proven construction

FIELDS OF APPLICATION

- Industrial and plant engineering
- Drainage

CONFIGURATION TM



Submersible pumps configuration TM are single-stage, non-self-priming centrifugal pumps with a submersible motor. Designed for underwater operation, the pumps are rated IP68 and can be used at immersion depths of up to 30 m.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from 0°C up to +40°C
Operating pressure ²⁾	p up to 10 (16) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold water, oils, brines, mild alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Three-phase submersible motor. Other configurations and motor types available on request.

BENEFITS

- Particularly compact design
- Oil chamber with leakage sensor for drive ratings of 11 kW and above
- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adaptation to the required operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Shipbuilding
- Wastewater transfer
- Drainage

CONFIGURATION TA



Submersible pumps configuration TA are single-stage, non-self-priming centrifugal pumps with a submersible motor. Designed for underwater operation, the pumps are rated IP68 and can be used at immersion depths of up to 30 m.

SERVICE DATA

Flow rate	Q up to 1,700 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from 0°C up to +40°C
Operating pressure ²⁾	p up to 10 (16) bar
Immersion depth	up to 30 m

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾
- Operating pressure = inlet pressure + max. pressure of the product
 - Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and slightly contaminated liquids, cold water, oils, brines, mild alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Three-phase submersible motor. Other configurations and motor types available on request.

BENEFITS

- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Broad range of performance
- Individual adaptation to the required operating point
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Wastewater transfer
- Shipbuilding
- Drainage

CONFIGURATION VZK(-D)



Centrifugal pumps configuration VZK are single-stage immersion pumps with a mounting plate. They are optionally available with a discharge pipe (VZK-D).

SERVICE DATA

Flow rate	Q up to 1,000 m ³ /h
Delivery head	H up to 130 m
Medium temperature ¹⁾	t from 0°C up to +90°C
Operating pressure ²⁾	p up to 10 (16) bar
Immersion depth ³⁾	up to 2 m

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

³⁾ Longer immersion depths or special lengths on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean liquids, cold water, oils, brines, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

BENEFITS

- Bearing assembly and motor are dry-mounted
- Replaceable shaft sleeve
- Corrosion-resistant, replaceable wear rings depending on pump size
- Flange in allusion to ISO 7005
- External flush connection available for lubrication of the plain bearings
- Broad range of performance
- Individual adaptation to the required operating point
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Industrial and plant engineering
- Shipbuilding
- Lubrication systems and central lubrication systems
- Irrigation
- Drainage

TYPE SERIES HM / HF



Dirty-water pumps type series HM and HF are single-stage, self-priming centrifugal pumps designed for the conveyance of contaminated and slightly solid-laden media.

SERVICE DATA

Flow rate	Q up to 170 m ³ /h
Delivery head	H up to 140 m
Geodetic suction lift	Hs.geo up to 7 m
Medium temperature ¹⁾	t from -20°C up to +85°C
Operating pressure ²⁾	p up to 10 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and contaminated media containing solids, as well as oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor with extended special shaft in efficiency class IE3. Also available in some configurations with single-phase AC, petrol or diesel engines. Other configurations and motor types available on request.

BENEFITS

- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Threaded connections or Flange in allusion to ISO 7005
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Proven construction
- Self-priming pump
- Approval according to various marine classification societies available (e.g. DNV GL, BV, LR)

FIELDS OF APPLICATION

- Drainage
- Shipbuilding
- Industrial and plant engineering
- Agriculture
- Construction industry
- Disaster response
- Fire department

TYPE SERIES WHM / WHF



Dirty-water pumps type series WHM and WHF are single-stage, self-priming centrifugal pumps designed for the conveyance of contaminated and slightly solid-laden media.

SERVICE DATA

Flow rate	Q up to 50 m ³ /h
Delivery head	H up to 30 m
Medium temperature ¹⁾	t from -20°C up to +85°C
Operating pressure ²⁾	p up to 10 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and contaminated media containing solids, as well as oils, alkalis and acids.

MATERIALS

The standard materials for pump casing and impeller are cast iron or bronze. Materials can be customized according to individual demands.

MOTOR

Low-noise IEC standard three-phase motor with extended special shaft in efficiency class IE3. Also available in some configurations with single-phase AC motor. Other configurations and motor types available on request.

BENEFITS

- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Threaded connections or Flange in allusion to ISO 7005
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Proven construction
- Self-priming pump

FIELDS OF APPLICATION

- Drainage
- Shipbuilding
- Industrial and plant engineering
- Construction industry
- Fire-fighting systems
- Agriculture

TYPE SERIES WHA



Wastewater pumps type series WHA are single-stage, non-self-priming centrifugal pumps specifically designed for pumping sewage and other fluids containing solids.

SERVICE DATA

Flow rate	Q up to 150 m ³ /h
Delivery head	H up to 40 m
Medium temperature ¹⁾	t from 0°C up to +80°C
Operating pressure ²⁾	p up to 10 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

- ²⁾ • Operating pressure = inlet pressure + max. pressure of the product
• Higher pressure on request

CONVEYING MEDIUM

Depending on material selection, suitable for clean and contaminated media containing solids, as well as oils, alkalis and acids.

MATERIALS

Wastewater pumps are available in a wide range of materials depending on the application.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3 or submersible motor. Other configurations and motor types available on request.

BENEFITS

- Sealing with rotation independent high-quality mechanical seal of bellows type. Other kinds of sealing on special request.
- Flange in allusion to ISO 7005
- Long-lasting and robust, therefore less susceptible to failure and lower follow-up costs
- Proven construction
- Pumps with channel or vortex impeller, optionally with cutting unit

FIELDS OF APPLICATION

- Drainage
- Shipbuilding
- Industrial and plant engineering
- Agriculture
- Construction industry
- Disaster response
- Recycling

TYPE SERIES WVSP



The Winter Vacuum Sewage Pump (WVSP) was developed for pumping wastewater and sewage, commonly referred to as greywater and blackwater. Due to its construction, the liquid-ring vacuum pump is particularly robust and easy to maintain.

SERVICE DATA

Air suction capacity	92 Nm ³ /h
Flush capacity	up to 800 flushes/h
Permitted delivery head/feed pressure (vacuum operation)	≤ 3 m, ≤ 0.3 bar
Starts per hour	up to 60 ambient temperature t = ≤ 45°C

CONVEYING MEDIUM

For pumping sewage and air in any combination. Suitable for liquids free from hard, abrasive solids such as sand, stones or metal, and for dry or humid gases that are non-flammable, non-aggressive and non-toxic. Use of chlorinated, corrosive, caustic or abrasive cleaning agents should be kept to a minimum. Other pumped media available on request.

MATERIALS

Vacuum sewage pumps are available in a wide range of materials depending on the application.

MOTOR

Low-noise IEC standard three-phase motor in efficiency class IE3. Other configurations and motor types available on request.

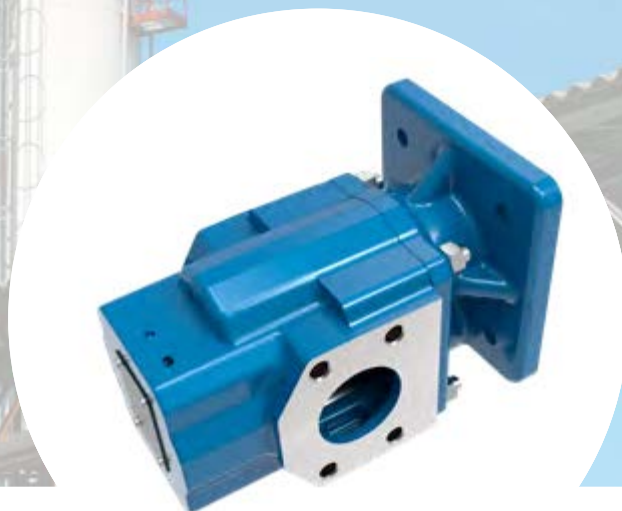
BENEFITS

- Highly efficient vacuum generation for sanitary facilities
- Simple and reliable liquid ring vacuum pump with cutting device on the same shaft
- Easy interface to waste water treatment plant or sewage network
- No storage tanks required for vacuum generation
- Maximum operational safety with minimal maintenance
- Consistent flushing and discharge time for toilets
- Optional: permanently installed drive controller with Soft PLC and optional temperature and pressure sensors for efficient control and regulation

FIELDS OF APPLICATION

- Marine
- Building technology
- Mobile sanitary trailers and sanitary containers
- Transport technology
- Municipal wastewater technology

TYPE SERIES WZP



Gear pumps type series WZP feature a compact design. They are robustly designed and manufactured and offer high wear resistance. Various pump sizes and sealing options enable a wide range of applications.

SERVICE DATA

Displacement	63 - 180 cm ³ /rev
Speed max.	3,000 min ⁻¹ (depending on viscosity)
Viscosity range	5 up to 50,000 mm ² /s
Medium temperature ¹⁾	t from -10°C up to +200°C
Inlet pressure	-0.4 up to 5 bar
Differential pressure ²⁾	up to 25 bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ Higher pressure on request

CONVEYING MEDIUM

Various types of liquids, such as cocoa mass, cocoa butter and fats. Free of solids and with minimum lubricating properties.

MATERIALS

In the standard configuration, the casing components are made of grey cast iron and the gear shafts of case-hardened steel. The special tooth geometry ensures low noise levels and minimal pulsation.

CONNECTION OPTIONS

Standard SAE flange. Other connection options available on request.

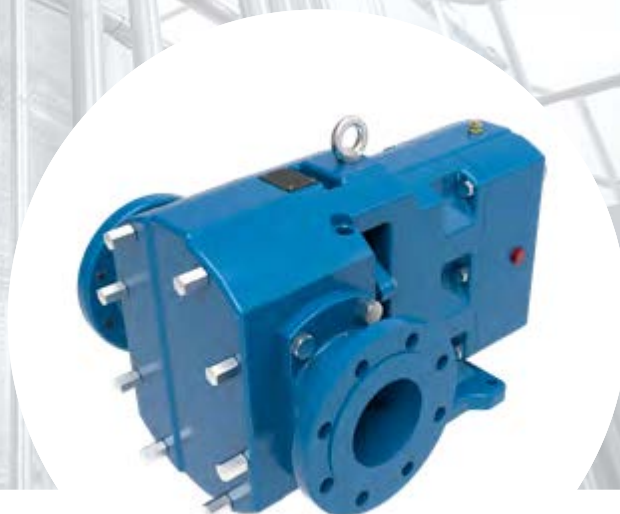
BENEFITS

- High cost-effectiveness
- Smooth, noise-optimised operation
- Easy assembly and disassembly
- Electric heating available

FIELDS OF APPLICATION

- Food industry
- Chemical industry
- Paint industry
- Gearbox and motor manufacturing
- Marine machinery engineering
- Turbine construction
- Cement plants

TYPE SERIES WKP



Positive displacement pumps type series WKP offer maximum robustness, reliability and performance, ensuring customer satisfaction. Versatile in application and individually adaptable to specific requirements, they leave virtually no customer requirement unmet.

SERVICE DATA

Displacement	250 - 1,700 cm ³ /rev
Speed max.	800 min ⁻¹
Viscosity range	up to 100,000 mm ² /s
Medium temperature ¹⁾	t up to +95°C optional up to +150°C
Pressure (max.) ²⁾	up to 7 (20) bar

¹⁾ Liquid temperature depends on material, liquid and construction. Further information and other liquid temperatures on request.

²⁾ Higher pressure on request

CONVEYING MEDIUM

Various types of liquids, such as cocoa mass, cocoa butter and fats. Free of solids and with minimum lubricating properties.

MATERIALS

The standard materials for the piston housing and cover are grey cast iron or stainless steel. Pistons are made of quenched and tempered steel or stainless steel, while shafts are made of case-hardening steel or stainless steel. Other materials available on request.

CONNECTION OPTIONS (INTERCHANGEABLE)

Flange (standard), dairy pipe connection, Tri-Clamp, threaded connection. Customer-specific on request.

SHAFT SEALING SYSTEMS

Gland packing, lip seal, mechanical seal (single or double). Special seals on request.

BENEFITS

- Suitable for dry running with double seal
- Pumping in both directions of rotation
- Robust design
- Maintenance-friendly
- CIP/SIP cleaning, depending on pump configuration
- Can be heated with steam, oil or water

FIELDS OF APPLICATION

- Bakery, dairy and confectionery industries
- Food, meat processing and canning industries
- Beverage, pharmaceutical and cosmetics industries
- Chemical and industrial products and bio-based products

NOTES

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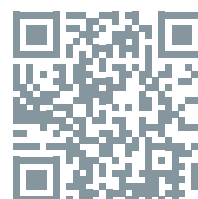


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