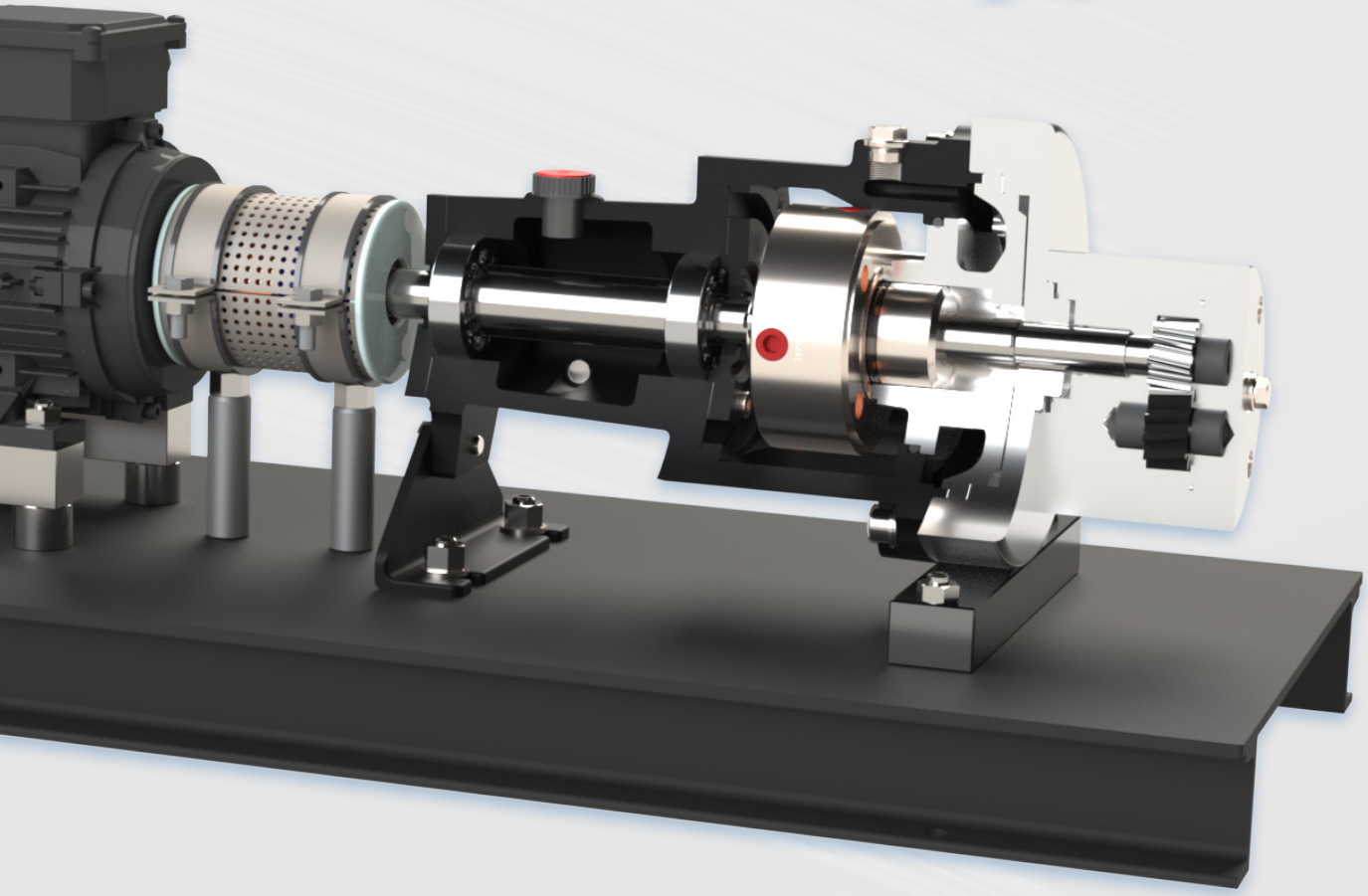
BOMBA ELIAS

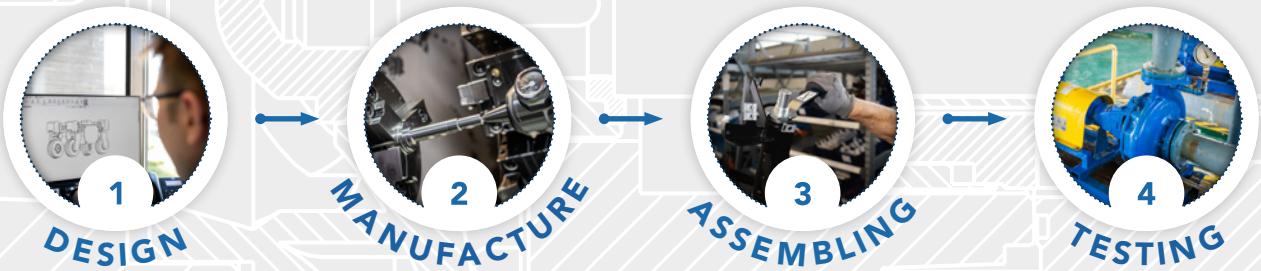
CHEMICAL PROCESS
THERMAL FLUID
WATER TRANSFER
SANITARY PUMPS
FIREFIGHTING PACKAGES

INDUSTRIAL PRODUCT RANGE



TÜVRheinland ISO 9001:2015 CE Ex

MANUFACTURING PUMPS SINCE 1965



OUR STORY

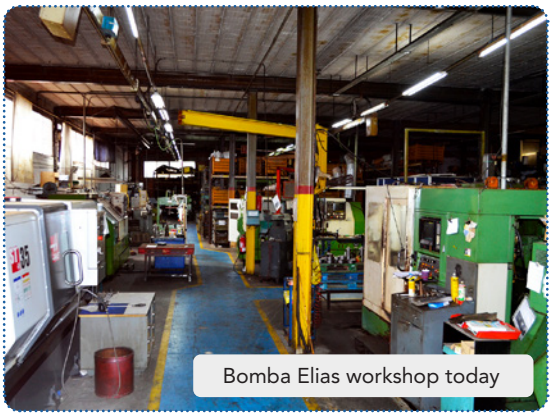
BOMBA ELIAS is a **pump manufacturer** since **1965** for the domestic and the industrial sectors.

It is currently directed by Cesc Elias, son of the founder Francesc Elias, who brings us values such as the culture of effort, enthusiasm and confidence in the future.

The company is characterized by offering a wide range of products for a wide variety of applications in both domestic and industrial sectors, being pioneers in the manufacture of **gear pumps.**

At present, the steps of Bomba Elias are in the direction of expanding our range of industrial products in the fields of chemical process, thermal fluid and water transfer in order to meet the needs and requirements of our most demanding customers.

Bomba Elias workshop in 1976


Bomba Elias workshop today

Nowadays, we export to 40 different countries. Our plan for the future is to be a national company with an international vision, while continuing to manufacture the products which we have the most knowledge and experience on.

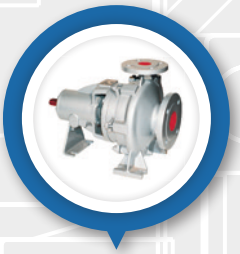
For this reason, quality, innovation, service and customer care make up our main pillars as a company.

Year **1965**

Foundation of Bomba Elias by Francesc Elias in a small workshop on the outskirts of Barcelona destined to the manufacture of gear pumps.

Year **1980**

Acquisition of STOCKLIN-TACO, a manufacturer of chemical process pumps. In stainless materials and special alloys.



Year **1986**

Acquisition of ALTTUR, S. COOP. This allowed the company to expand its range of EN 733 and EN 22858 (ISO 2858) standardized pumps.

Year **2019**

Awarding of the European INNOWWIDE award to Bomba Elias for the innovative design of the R-FT Series for thermal fluid applications.

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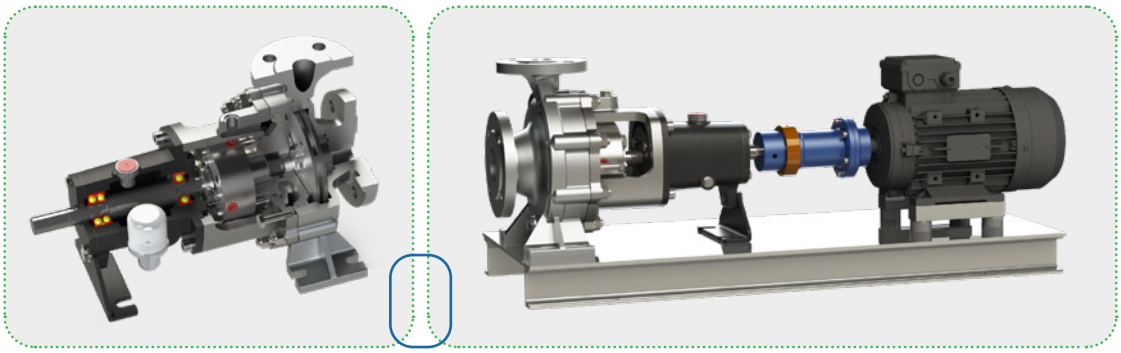
BQP SERIES

CENTRIFUGAL PUMP ACCORDING TO EN 22858 (ISO 2858) STANDARDS

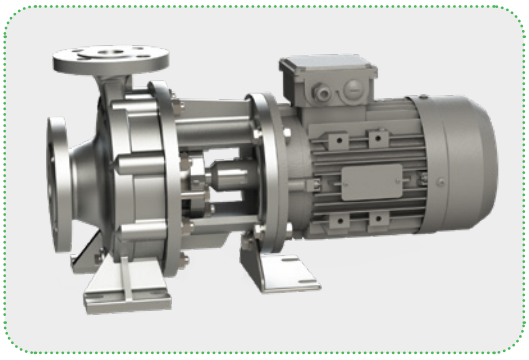


- High performance and low energy consumption. Low NPSH.
- Available in two versions: **EL**-BARE SHAFT or **SB**-ON BASEPLATE.
- Versatility of construction materials in structural parts and elastic components for a total adaptation to the transfer fluid and/or the environment.
- Adaptation of mechanical seals according to EN 12756 standards.
- Possibility of adding API plans to modify the environment of the mechanical seal.
- Equipped with integrated heating/cooling chamber.
- Back Pull-out system through elastic coupling with spacer, which allows easy disassembly of the equipment for maintenance or cleaning tasks.
- Integrates lubricated bearing bracket with constant level oiler.

Range of flow rates	From 10 to 250 m³/h depending on the model	**Max. working pressure**	20 bar
Range of pressures	From 1 to 18 bar depending on the model	**Max. working temperature**	Up to 300°C depending on the materials and the seal environment

BQPM SERIES

MONOBLOCK CENTRIFUGAL PUMP WITH EN 22858 (ISO 2858) HYDRAULICS

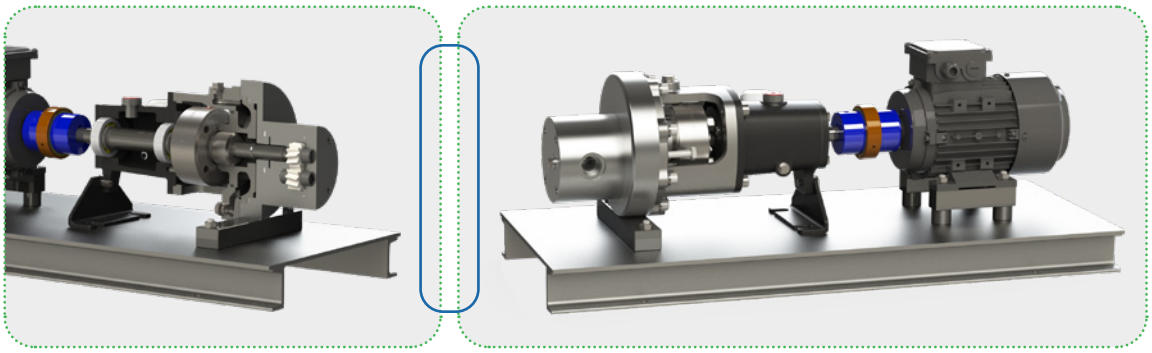


- Hydraulic equipment according to EN 22858 (ISO 2858) standards.
- Compact monoblock construction.
- Pump shaft rigidly coupled to the end of the motor shaft inside the lantern. Flange-mounted standard motor.
- Reduced size and weight for installation in limited space.
- Possibility of vertical mounting.

Range of flow rates	From 10 to 220 m³/h depending on the model	**Max. working pressure**	20 bar
Range of pressures	From 1 to 16 bar depending on the model	**Max. working temperature**	Up to 150°C depending on the materials and the mechanical seal

RBQP Inox SERIES

GEAR PUMP FOR CHEMICAL PROCESS

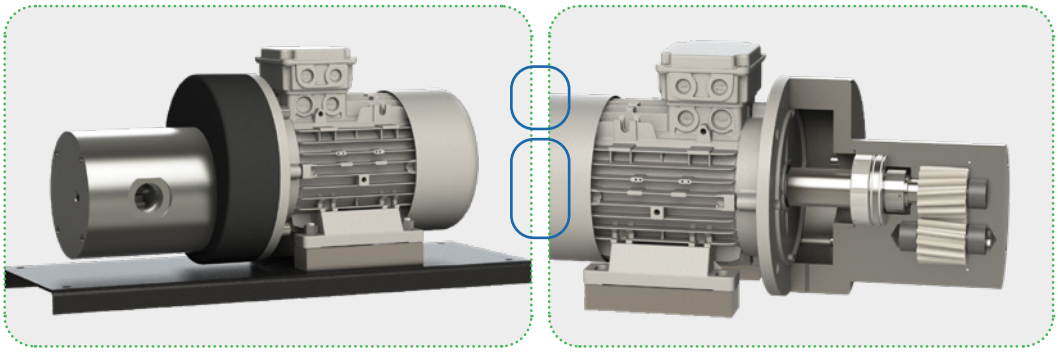


- Self-priming external helical gear pump.
- Installation on baseplate, with a simple elastic coupling or with a spacer.
- Versatility of materials for a total adaptation to the transfer fluid and/or the environment.
- Adaptation of mechanical seals according to EN 12756.
- Possibility of adding API plans to modify the environment of the mechanical seal.
- Equipped with integrated heating/cooling chamber.
- Includes constant level oiler for lubricated bearing bracket.

Range of flow rates	From 220 to 14.000 l/h	**Max. working pressure**	12 bar
Range of pressures	Up to 10 bar depending on the model	**Max. working temperature**	Up to 300°C depending on the materials and the seal environment

R Inox SERIES

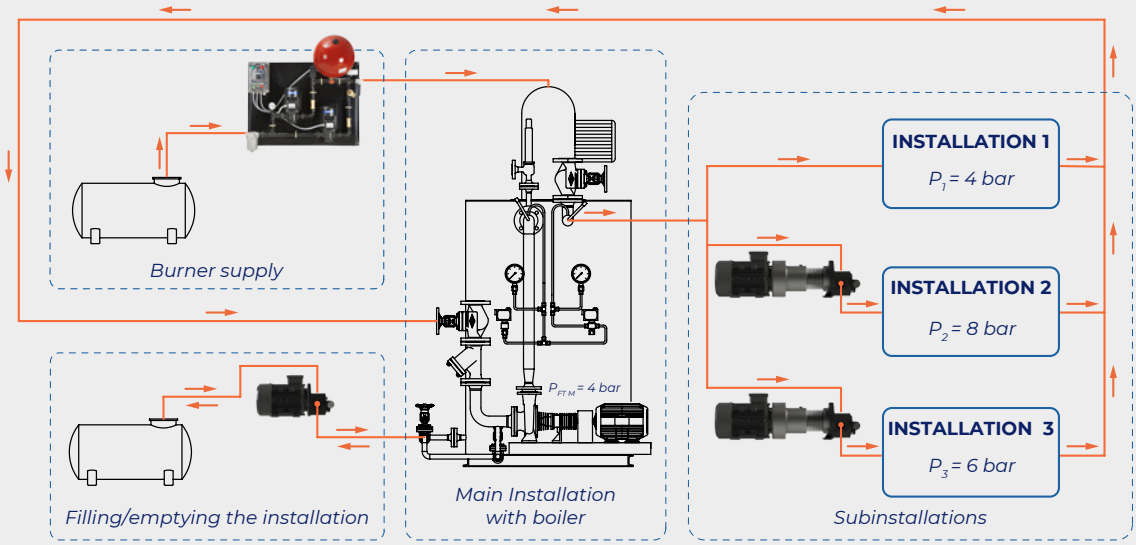
MONOBLOCK GEAR PUMP FOR CHEMICAL PROCESS



- Monoblock self-priming external helical gear pump.
- Rigid coupling at the end of the motor shaft. Flange-mounted standard motor.
- Alternatively mounted on a basepalte, on-demand.
- Versatility of materials for a total adaptation to the transfer fluid and/or the environment.
- Internal mechanical seal or lip seal with versatility of construction materials.

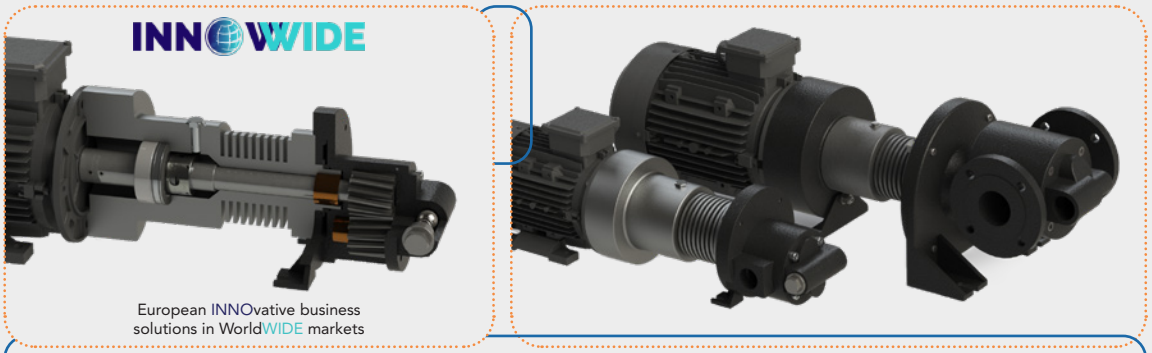
Range of flow rates	From 220 to 6.500 l/h	**Max. working pressure**	12 bar
Range of pressures	Up to 10 bar depending on the model	**Max. working temperature**	Up to 150°C depending on the materials

We have all the solutions available for your THERMAL FLUID installation!



R-FT SERIES

HIGH TEMPERATURE EXTERNAL GEAR PUMP



R-FT Series is an ideal pump for **thermal fluid subinstallations.** It allows working at lower pressure in the main circuit, increasing **installation safety.** It makes it possible to **adjust the flow** to the minimum required, which translates into **greater energy savings.**

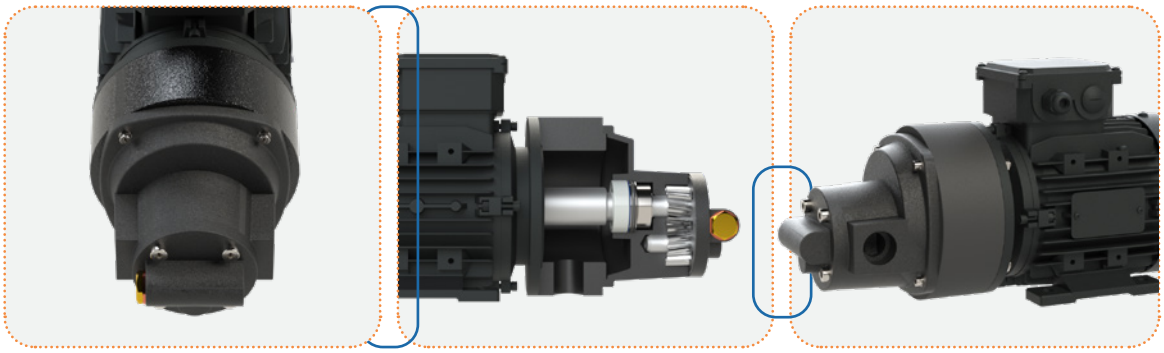
- Self-priming external helical gear pump **specially designed for the transfer of thermal fluid at high temperatures, up to 350°C.**
- Built-in safety valve.
- Pump shaft supported by four points properly distributed throughout the assembly.
- Rigid coupling at the end of the motor shaft. Flange-mounted motor.
- Heat dissipation by the means of a front restrictive ring and a finned casing.
- Special internal mechanical seal for thermal fluid applications according to EN 12756 standards.

Range of flow rates	From 220 to 14.000 l/h	**Max. working pressure**	12 bar
Range of pressures	Up to 10 bar depending on the model	**Max. working temperature**	Up to 350°C

INNOWIDE This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreeement No. 822273.

R-U SERIES

EXTERNAL GEAR PUMP WITH IEC STANDARD MOTOR



- Self-priming external helical gear pump with high efficiency IEC standard motor, ideal for filling/drainage of thermal fluid circuits.
- Built-in safety valve.

Range of flow rates	From 220 up to 60.000 l/h	**Max. working pressure**	12 bar
Range of pressures	Up to 10 bar according to the model	**Max. working temperature**	Up to 110ºC

GPG/GPGD SERIES

SINGLE/DOUBLE BOOSTER SETS FOR DIESEL FUEL

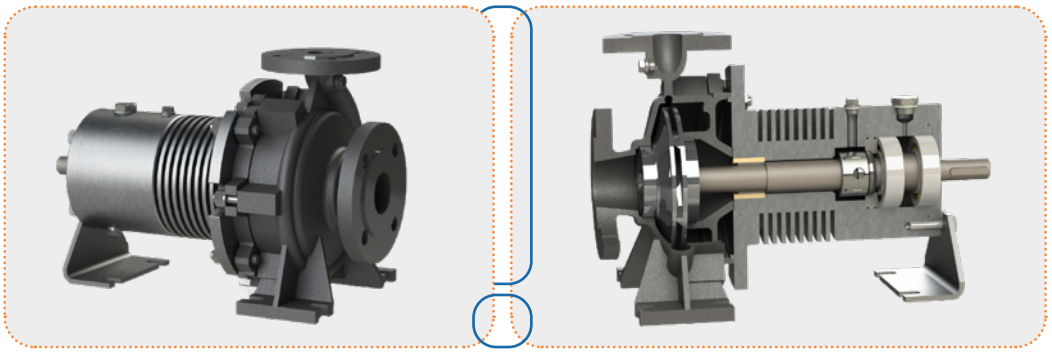
- Single (GPG) or double (GPGD) booster sets **specially designed for the supply of diesel oil to boiler burners.**
- They are mounted on a baseplate and, in some models, a protective fairing is assembled.
- The sets include one or two R Series self-priming gear pumps with a built-in safety valve.
- Equipped multifunction electrical panel for control, maneuvering and protection of the unit.
- They carry a safety and control pressure switch/s with manual or automatic reset, depending on the model.
- They also include a diesel oil filter, a pressure gauge, a check valve, an hydropneumatic accumulator and a safety valve.

Range of flow rates	From 20 to 6.500 l/h	**Max. working pressure**	Check technical brochure
Range of pressures	From 10 bar depending on the model	**Max. working temperature**	Up to 60ºC

AC-FT SERIES

CENTRIFUGAL PUMP ACCORDING TO EN 733 STANDARDS FOR THERMAL FLUID

EN 733



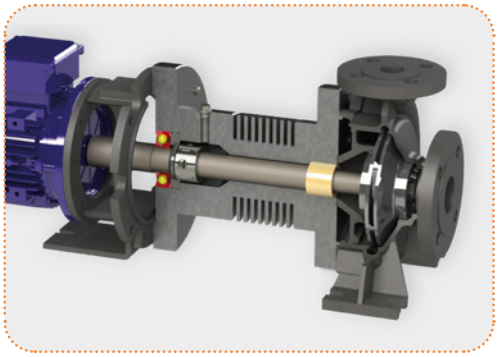
- Standardized centrifugal pump according to EN 733 standards for the transfer of thermal fluid.
- Available in two versions: **EL**-BARE SHAFT or **SB**-ON BASEPLATE with elastic coupling at the end of the motor shaft.
- The shaft is supported on four different points properly distributed along the pump.
- Heat dissipation by means of a front restrictor ring and finned casing.
- Special internal mechanical seal according to EN 12756 standards.

Range of flow rates	Up to 350 m^3/h	**Max. working pressure**	16 bar
Range of pressures	Up to 10 bar	**Max. working temperature**	Up to 350°C

FT M SERIES

MONOBLOCK CENTRIFUGAL PUMP WITH EN 733 HYDRAULICS FOR THERMAL FLUID

EN 733



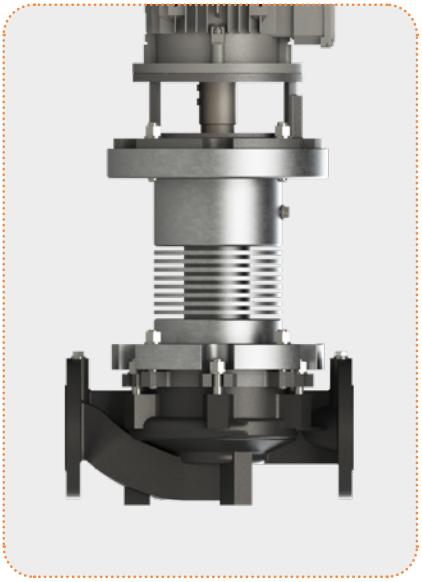
- Monoblock centrifugal pump with EN 733 hydraulics.
- Pump shaft supported by four points properly distributed along the assembly.
- Rigid coupling at the end of the motor shaft. Flange-mounted standard motor.
- Heat dissipation by the means of a front restrictive ring and finned casing.
- Special internal mechanical seal for thermal fluid applications according to EN 12756 standards.

Range of flow rates	From 2 to 200 m^3/h	**Max. working pressure**	16 bar
Range of pressures	Up to 10 bar	**Max. working temperature**	Up to 350°C

IAC-FT SERIES

IN-LINE CENTRIFUGAL PUMP WITH EN 733 HYDRAULICS FOR THERMAL FLUID

EN 733



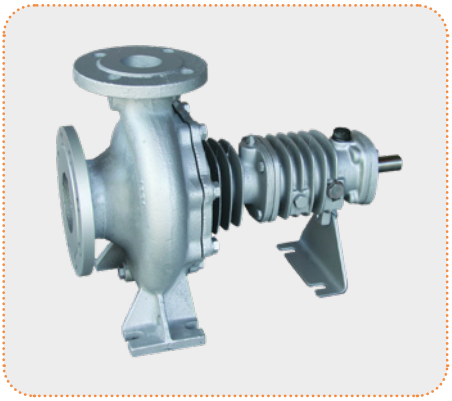
- Monoblock centrifugal pump equipped with EN 733 hydraulics, for thermal fluid.
- In-Line suction and discharge nozzles for the circulation of the transfer fluid.
- Possibilty of vertical or horizontal installation of the unit.
- The pump shaft is supported by four supports properly distributed along the pump.
- Rigid coupling at the end of the motor shaft. Flange-mounted motor.
- Heat dissipation by means of a front restrictive ring and finned casing.
- Special internal mechanical seal for thermal fluid applications according to EN 12756 standards.

Range of flow rates	From 2 to 200 m³/h	**Max. working pressure**	16 bar
Range of pressures	Up to 10 bar	**Max. working temperature**	Up to350°C

FT SERIES

CENTRIFUGAL PUMP ACCORDING TO EN 22858 (ISO 2858) STANDARDS FOR THERMAL FLUID

EN 22858



- EN 22858 hydraulics of high performance and low energy consumption. Low NPSH.
- Available in two versions: **EL**-BARE SHAFT or **SB**-ON BASEPLATE.
- Shaft supported by two bearings to guarantee a long life of the set.
- Heat dissipation by means of a finned casing.
- It can be supplied in various construction materials.
- Back Pull-out system through elastic coupling with spacer, which allows easy disassembly of the equipment for maintenance or cleaning tasks.

Range of flow rates	From 2 to 200 m³/h	**Max. working pressure**	16 bar
Range of pressures	Up to 10 bar	**Max. working temperature**	Up to 350°C

RUBI SERIES

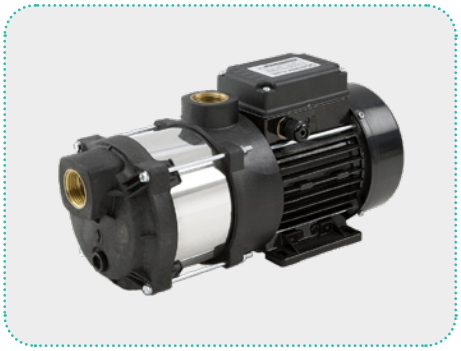
MULTISTAGE HORIZONTAL PUMP IN *COMPOSITE*

- Multistage horizontal pump for the transfer of clean water.
- Hydraulic components made entirely of *composite*, a technopolymer with high oxidation resistance.
- Suitable for low flow supplies at relatively high pressures.
- Quiet operation.
- Suction and discharge nozzles at 90° with brass inserts.

Range of flow rates	Up to 5 m³/h depending on the model	**Max. working pressure**	10 bar
Range of pressures	Up to 5 bar depending on the model	**Max. working temperature**	Up to 60°C

MAXOR SERIES

MULTISTAGE HORIZONTAL PUMP WITH HYDRAULIC PARTS IN 316 STAINLESS STEEL

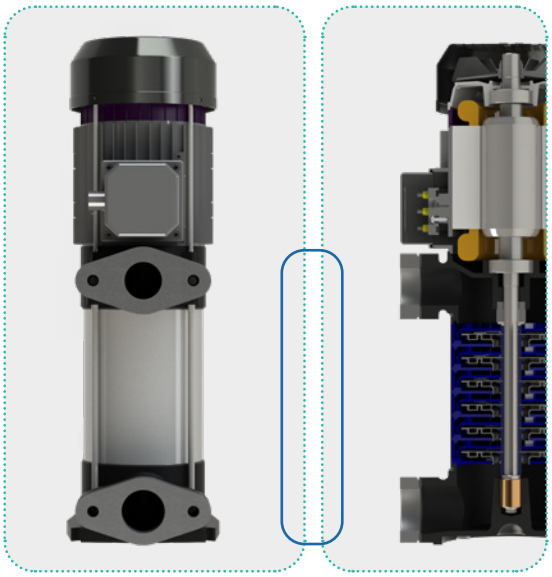


- Multistage horizontal pump for the transfer of clean water.
- The impellers are manufactured in 316 stainless steel. Suction and discharge casings in *composite*. Hydraulic parts casing in 304 stainless steel.
- Suitable for low flow supplies at relatively high pressures.
- Quiet operation.
- Suction and discharge nozzles at 90° with brass inserts.

Range of flow rates	Up to 8,5 m³/h depending on the model	**Max. working pressure**	10 bar
Range of pressures	Up to 6,5 bar depending on the model	**Max. working temperature**	Up to 60°C

VM-2 SERIES

MULTISTAGE VERTICAL PUMP WITH HYDRAULIC PARTS IN 316 STAINLESS STEEL AND FLANGES



- Multistage vertical pump for the transfer of clean water.
- The impellers are manufactured in 316 stainless steel. Suction and discharge casings in *composite*. Hydraulic parts casing in 304 stainless steel.
- Suitable for low flow supplies at relatively high pressures.
- Quiet operation.
- Parallel suction and discharge nozzles with flanges.
- Discharge casing adjustable in four different positions without the need to disassemble the stator.
- Submerged mechanical seal.

Range of flow rates	Up to 20 m^3/h depending on the model	**Max. working pressure**	16 bar
Range of pressures	Up to 14 bar depending on the model	**Max. working temperature**	Up to 60°C

VMH/VMS/VMSS SERIES

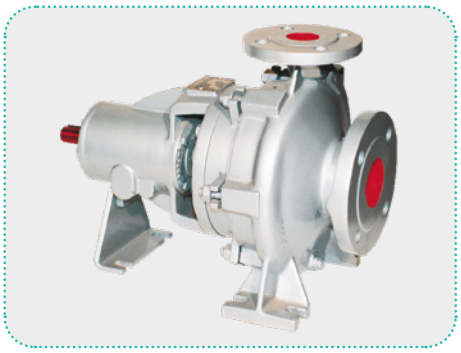
IN-LINE MULTISTAGE VERTICAL PUMP

- In-Line vertical multistage pump for the transfer of clean water.
- Suction and discharge nozzles in line, with flanges.
- Suction-discharge casing in cast iron (VMH), in 304 stainless steel (VMS) or in 316 stainless steel (VMSS). Hydraulic package in 304 stainless steel.
- Pump shaft rigidly coupled to the end of the motor shaft inside the lantern.
- Wide range of flows and pressure.
- Quiet operation.

Range of flow rates	Up to 240 m^3/h depending on the model	**Max. working pressure**	Check technical brochure
Range of pressures	Up to 30 bar depending on the model	**Max. working temperature**	Up to 120°C with a special sealing solution on demand.

AC SERIES

CENTRIFUGAL PUMP ACCORDING TO EN 733 STANDARDS



- Centrifugal pump according to EN 733 standards, ideal for transferring clean water.
- Available in two versions: **EL**-BARE SHAFT or **SB**-ON BASEPLATE with elastic coupling at the end of the motor shaft.
- Cast iron construction. It can be supplied specially in other materials, on request.
- It allows mounting any standardized mechanical seal according to DIN 24960 in accordance with the fluid to be pumped.
- The pump includes an integral bearing bracket to ensure greater stability of the equipment and, consequently, to extend the useful life of the assembly.

Range of flow rates	From 4 to 800 m³/h	**Max. working pressure**	16 bar
Range of pressures	From 4 to 15 bar	**Max. working temperature**	Up to 150ºC

IAC SERIES

MONOBLOCK IN-LINE CENTRIFUGAL PUMP WITH EN 733 HYDRAULIC PARTS

- Monoblock centrifugal pump equipped with EN 733 hydraulics for the transfer of clean water.
- In-Line suction and discharge nozzles for the circulation of the transfer fluid.
- Possibility of vertical and horizontal installation of the equipment.
- Rigid coupling at the end of the motor shaft. Flange-mounted standard motor.
- Cast iron construction. It can be supplied specially in other materials, on request.

Range of flow rates	From 4 to 140 m³/h	**Max. working pressure**	16 bar depending on the mechanical seal
Range of pressures	Up to 6 bar	**Max. working temperature**	Up to 150ºC

CENTIX SERIES

MONOBLOCK CENTRIFUGAL PUMP WITH OPEN IMPELLER, IN 316 STAINLESS STEEL

- Monoblock construction centrifugal pump especially designed for food and pharmaceutical applications.
- The components in contact with the transfer fluid are made of 316 stainless steel. The rest of the components, in 304 stainless steel.
- Its main structure is formed by the main casing and a semi-open impeller manufactured by microfusion.
- It incorporates a simple internal mechanical seal with different combinations of materials for a total adaptation to the transfer fluid.
- As standard, the pump is equipped with GAS threaded suction and discharge nozzles.
- On request, it is possible to add a stainless steel engine casing and/or include a baseplate to the final product.

Range of flow rates	Up to 81 m^3/h	**Max. working pressure**	10 bar
Range of pressures	Up to 9 bar	**Max. working temperature**	Up to 110ºC

SELFIX SERIES

MONOBLOCK CENTRIFUGAL PUMP WITH OPEN IMPELLER, IN 316 STAINLESS STEEL

- Monoblock self-priming centrifugal pump.
- It integrates a built-in priming chamber, so it can aspirate without a check or foot valve up to 6 meters.
- The equipment components are manufactured in 316 stainless steel. The outer surface has a matt polished finish.
- Its main structure is formed by the main casing and a semi-open impeller manufactured by microfusion.
- It incorporates a simple internal mechanical seal with different combinations of materials for a total adaptation to the transfer fluid.
- As standard, the pump is equipped with GAS threaded suction and discharge nozzles.
- On request, it is possible to add a stainless steel engine casing and/or include a baseplate to the final product.

Range of flow rates	Up to 97 m^3/h	**Max. working pressure**	10 bar
Range of pressures	Up to 7 bar	**Max. working temperature**	Up to 110ºC

FIREFIGHTING PACKAGES

BOOSTER SETS FOR FIRE-FIGHTING INSTALLATIONS SUPPLYING

CHARACTERISTICS

These are booster sets especially designed to supply a designated water flow at a suitable pressure at different supply points of a general fire-fighting installation.

The unit will have a main flow supply pump for the installation, with an electric motor. Optionally, it will have a reserve pump with the same characteristics with an electric or diesel motor. This pump will work when the main pump, for whatever reason, is not operational. Finally, the set will equip a jockey or auxiliary pump, with the intention of keeping the installation always pressurized and, in addition, it will compensate small leakages in the system.

REGULATIONS

- UNE 23500:2018
- UNE 23500:2018 Apéndice 6.4
- UNE 23500:2018 Apéndice 6.5
- CEPREVEN RT2-ABA
- EN 12845:2016
- UNE 23500:90
- UNE 23500:2012
- UNE 23500:2012 (Anexo C)

COMPOSITIONS

- **E+J:** They include a centrifugal or multistage pump with an electric motor to supply the flow required by the installation and an auxiliary jockey pump to keep the installation always pressurized.
- **E+D+J:** They consist of two centrifugal or multistage pumps, or a combination of both, one of them electrically driven and the other one with a diesel motor, to supply the flow required by the installation; and a jockey pump to keep the installation always pressurized.
- **E+E+J:** They consist of two centrifugal or multistage pumps, or a combination of both, with an electric motor, to supply the flow required by the installation; and an auxiliary jockey pump to keep the installation always pressurized.

ELEMENTS

- **Electrical panels:** their main function is to protect, control and maneuver the different elements of the firefighting package.
- **Pressure switches:** these are regulated devices that, depending on the read pressure, are responsible for starting the hydraulic pumps.
- **Safety valve:** it reliefs possible overpressures in the circuit.

NOTES

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