

-Suction and discharge flanges are on the same axis line. The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimizes noise and vibration.

-Suction and discharge flanges are PN 16 according to EN 1092-2 (DIN2501).

-Seal box is cooled with water. Seals are easily dismountable, which makes replacing and fitting up additional seals easy.

-Split-case pumps could manufacturing horizontal or vertical.

-The impellers are dynamically balanced according to ISO 1940 class 6.3.

-Direction of rotation is clockwise when viewed from the motor in standard manufacture. In this case, the suction flange is on the right side. If required, the direction of rotation can be adjusted counter-clockwise. In this case, the suction flange is on the left side.

-Replaceable case wear rings protect the pump casing and reducing maintenance costs.

-Bronze shaft sleeves protect the shaft and help with fixation of the impeller.

-In horizontal installation, ball bearing with grease lubrication is used as standard. In the case of vertical installation, the bearing with fluid lubrication is used on the lower side and the ball bearing with grease lubrication is used on the upper side.

Discharge Flange : DN 65 – DN 600

Capacity : 6000 m³/h

Head : 180 m

Frequency : Three-phase 50 Hz - 60 Hz*

Temperature of Pumped Liquid : From -20 °C to + 110 °C

Maximum Operating Pressure : 16 bar (25 bar)*



APLICATII / USAGE AREAS





- GXF series pumps have designed for pumping non-abrasive and small particulars liquids.
- GXF series pump has just one impeller, pump and motor is connecting by coupling. It gives your advantages for easy disassembling.
- Pump Dimensions are according to EN 733 - DIN 24255 standard.
- Suction and discharge flanges according to EN 1092-2 / PN 16.
- GXF series have a closed impeller, impeller blades located between the balancing holes to minimize the axial load is taken in dynamic load balancing.
- Sealing is provided by gland packing. Sealing is provided by also mechanical seal as customer request.
- Easy disassembly to pump and change impeller, bearings, and seals.
- All impellers are statically and dynamically balanced according to ISO 1940 class 6.3.
- In addition to 29 models, 10 complementary models are designed in according to EN 733 standards. The main dimensions of complementary models may differ from other manufacturers.
- Direction of rotation is clockwise viewed from the driver end.
- Optionally, pumps can be manufactured with shaft bushings and/or wear rings.

Discharge Flange : DN 32 – DN 250
Capacity : 1700 m³/h
Head : 100 m
Frequency : Three-phase 50 Hz - 60 Hz*
Temperature of Pumped Liquid : From -25 °C
to+140 °C
Maximum Operating Pressure : 10 bar (16 bar)*



APLICATII / USAGE AREAS



**CENTRIFUGAL PUMP FOR DIATHERMIC OIL
& HOT WATER APPLICATIONS**



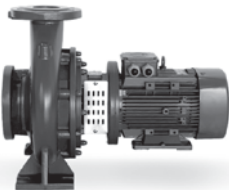
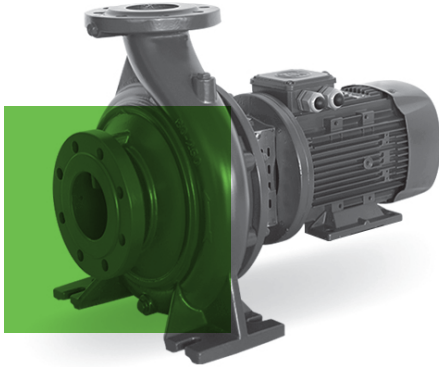
ThermaFlux pump is designed to provide excellent pumping efficiency while helping to ensure durability, ease of maintenance and safe operation. ThermaFlux pump ensures uniform process temperatures while keeping damaging heat away from seal faces and bearings. ThermaFlux pump is designed to require no external cooling when working within the given parameters. The throttle bush, journal bearing and seal placement reduce circulation and temperature along the pump length. This greatly reduces the temperature at the seal face and bearings. Typical liquid temperatures of 250° C (482° F) at the pump inlet will be as low as 100° C (212° F) at the seal faces.

Maximum capacity: 350 m³/h (1541 GPM) [50 Hz]
400 m³/h (1761 GPM) [60 Hz]
Maximum delivery head: 110 m (361 ft) [50 Hz]
160 m (525 ft) [60 Hz]
Maximum liquid temperature: Thermal oil 350° C (662° F),
Hot water 190° C (374° F)
Maximum operating pressure: 16 bar (232 psi)
Maximum speed: 3600 rpm
Discharge Flange : DN 32 – DN 150
Cooling Method With Air



APLICATII / USAGE AREAS





- Monoblock centrifugal pumps with horizontal shaft, volute casing, single stage, end suction and closed impeller.
- The main dimensions of the housing comply with EN 733 standards.
- Design according to EU 547/2012 energy rating.
- Suction and discharge flanges according to EN 1092 - 2 / PN 16. Flanges are suitable for EN 1092 - 1 / PN 16 in pumps with steel or stainless steel body material. Pumps could be produced with ANSI / ASME flanges optionally.
- Pumps are used with electric motors of high efficiency class according to IEC structure sizes.
- All impellers are balanced dynamically or statically according to ISO 1940 class 6.3.
- The axial force is balanced with the wheel balancing holes system.
- The direction of rotation is clockwise by the engine.
- Monoblock pumps are smaller and lighter than the same hydraulic centrifugal pumps.
- Optionally, pumps can be manufactured with wear ring and / or shaft bushings.
- The pump shaft is connected to the motor shaft with a plug-in shaft or rigid coupling. The axial and radial forces of the pump have covered by the motor bearings.

Discharge Flange : DN 32 – DN 150

Max. Capacity : 500 m³/h

Max. Head : 100 m

Frequency : Three-phase 50 Hz - 60 Hz*

Temperature of Pumped Liquid : From -25 °C to +140 °C

Maximum Operating Pressure : 10 bar (16 bar)*





VANSAN, the leading pump manufacturer in the industry, produces special pumps for turn-key project, with its high engineering and powerful R&D team. Specialized in the production of turbine pumps, Vansan continues to successfully produce Vertical Turbine Pump in the range of 10 m³/h-30000 m³/h with H max. 600 m. and Axial Pumps in the range of 900 m³/h to 30.000 m³/h, which can compress liquids up to 8 meters, offering water-based, oil-based or grease lubricated options. Vansan produces special solutions for the projects, which require high capacities, within the country and abroad, and undertakes all the process until the commissioning of the pump station.

It is no coincidence that today Vansan pumps are seen everywhere in the world. Recognizing the requirements of being a leader in the sector, Vansan meticulously plans and implements all the processes from planning to production, quality management to after-sales support. It is possible to save up 30% of the energy by means of a good system design and a well-designed pump. Keeping that in mind, Vansan continues to work nonstop to produce pumps that produce more work and consume less energy. The life cycle cost is the most important criterion in designing all VANSAN products.

Max. Capacity 30.000 m³/h
Max. Head 8 meter
30% energy saving

%93 performance
Water, oil, grease lubrication options
Specific design and material option

AXIAL FLOW VERTICAL PUMPS



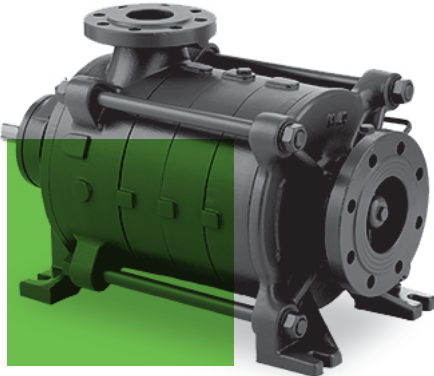
Axial flow pumps, also known as elbow or propeller pumps, are used in high flow and low head applications. GDX Water Technologies offers a complete range of low and high pressure, horizontal and vertical axial flow pumps especially designed to handle severe pumping conditions.

Propeller pumps are of an axial type i.e. where water flows into a suction bell axially passing via impeller and stator diffuser, being further directed through a discharge pipe of piping. The shaft is by means of a flexible coupling joined with an electric motor. Propeller pumps are applied for the supply of high quantities of water at low heads, being thus very economically applied in the systems of irrigation and drainage, industry and others. Upon a customer's requirement, the pumps provided with deflecting blades in operation, are also produced.

- Flows to 180 000 m³/h (800 000 gpm)
- Heads to 11 m (35 ft)
- Speeds to 1770 rpm
- Sizes 200 mm (8 in) to 3.1 m (123 in)
- Settings to 8 m (25 ft)

APLICATII / USAGE AREAS

MULTISTAGE PUMPS (END SUCTION)



Multistage pumps are designed to transfer clean liquids through several impellers that are built into a series, as opposed to one and are typically useful in installations where a high head is needed. High-pressure applications can be achieved by installing the impellers on the same shaft of the multistage pump or parallel to each other on opposing shafts for higher flow rates. They are primarily useful for energy saving and different ranges of flow/head circumstances.

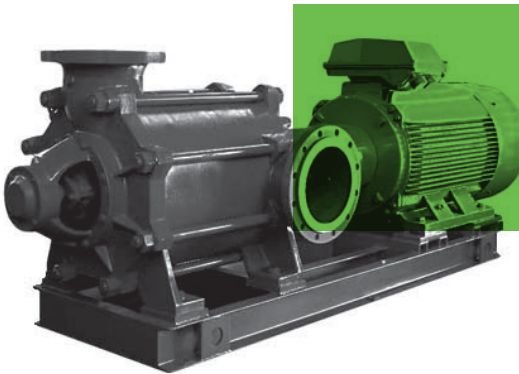
The heavy-duty, multistage pump boasts a variety of construction material options and generously rated bearings meet the demands of both water and industrial applications.

Dependant on your requirements, the multistage pump can be installed either vertically or horizontally. In situations where floor space is limited, vertical pumps are usually more suitable, whereas the horizontal orientation of a multistage pump can be especially useful in a condition with low headroom, often regarding indoor applications.

Multistage pumps work in connected stages. The process starts where the liquid will enter a chamber at the suction line pressure and will then exit at an elevated pressure before entering the next chamber. This process can continue multiple times and the more chambers the multistage pump has, the higher the achievable pressure can be. The number of industries and sectors that can benefit from the multistage pump is virtually endless and there are many examples of where they might be applied.

Discharge Flange: DN 40 - DN 150
Capacity: 400 m³/h
Head: 450 m
Frequency: Three-phase 50 Hz - 60 Hz*
Temperature of Pumped Liquid: From -20 °C to + 110 °C
Maximum Operating Pressure : 30 bar (63 bar)*

MULTISTAGE PUMPS



The C type range is the basic range of our centrifugal ring section multistage pumps. The simplified design, utilizing hydraulically balanced impellers by means of holes into impeller, or by "back to back" impeller execution, provides the optimum pumping solution for medium pressure applications. Pump casing is consisted of suction and discharge housing, middle chambers and bearing brackets. All of the impellers are centrifugal of closed type, and are statically and dynamically balanced.

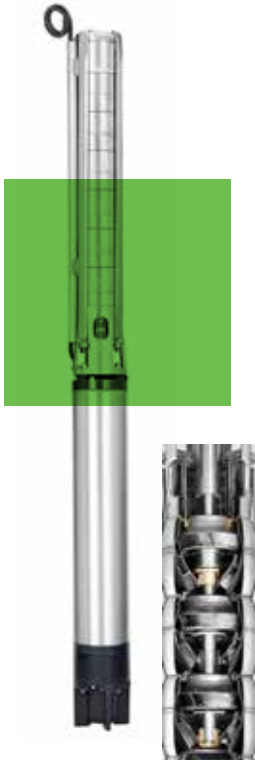
The suction and pressure bodies can be rotated for 90° in both directions, as per customer convenience, which enables the pumps to be mounted and adapted to the requirements of the installation. Axial thrust is relieved by means of a drum mounted on the shaft inside the discharge hull, rest of the thrust bears one of the roller bearings. The impellers are centrifugal of closed type identically fixed to a shaft, supported on two roller bearings.

Max Capacities 1,100 m³/h / 4,800 USgpm
Max Heads 900 m / 2,950 ft
Pressures Up to 100 bar / 1,450 psi
Temperatures Up to 90 °C / 194 °F
Discharge sizes From 25 to 200 mm / 1 to 8 inches

APLICATII / USAGE AREAS

SUBMERSIBLE BOREHOLE PUMPS

STAMPED STAINLESS-STEEL (6"-7"-8"-10")



Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel that ensures high corrosive resistance. Metal parts are made of 304 or 316 stainless steel, except for the shafts, which are made of 431, 304 or 316 stainless steel. This pump carries drinking water approval.

Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

The motor is a canned type submersible motor offering good mechanical stability and high efficiency. Suitable for temperatures up to 40 °C.

The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a PT100 sensor can be fitted.

The motor is for direct-on-line starting (DOL).

GDX Water Technologies submersible pumps are made of corrosion and abrasion resistant stainless steel and have been developed in accordance with state of the art technology. Our pumps are manufactured to the highest standards of highly efficient hydraulic impeller and diffuser design to reach high energy efficiency, dependable performance, rugged construction and long service life, even in difficult environments.

Technical Features

Max. capacity 290 m³/h

Max. head 700 m

Max. allowable sand content 50 g/m³

Complete stainless steel

Suitable connection in NEMA standarts

Long life and high efficiency

SUBMERSIBLE CASTED BOREHOLE PUMPS

(6"-7"-8"-10")



Multi-stage submersible pump for raw water supply, groundwater lifting, pressure boosting and various industrial applications. The pump is suitable for pumping clean, thin, non-aggressive liquids without solid particles or fibres.

Pump: The pump is made entirely of Cast iron DIN W.-Nr. EN-JL1040 and also suitable for horizontal installation.

The pump is fitted with a built-in non-return valve.

Phase: The motor is a 3-phase motor with sand shield, liquid-lubricated bearings and pressure equalizing diaphragm.

Maximum capacity 500 m³/h

Maximum head 650 m

Maximum allowable sand content 50 g/m³

Max. allowable voltage tolerance is 10%

Suitable connection in NEMA standarts

Long life and high efficiency