PUMPTEC

PUMPTEC COMPANY PROFILE

We Help You Make a Difference

www.pumptec2000.com

NM SERIES

End Suction Centrifugal Pumps

FIELDS OF APPLICATIONS

- Water supply and booster stations.
- Irrigation, sprinkling, drainage processes.
- Tank systems.
- Hot-cold water circulation in cooling systems.
- Pumping of condensed water.
- Circulating water in pools.
- Industrial and domestic fluid pumping processes.
- Marine applications.

DESIGN

- Single stage, end suction, centrifugal volute pump.
- Main dimensions, compatible w ith EN 733 (DIN 24255) norm. A total of 48 designed pumps available in the series.
- Single suction with closed impeller, and thrust balanced by means of counter-balancing holes and back wear rings, thus acquiring a dynamic balance.
- The pump and the motor have a standard connection to the common base plate with a flexible coupling. Maintenance and repair procedures are easily carried out since the pump fixtures can be removed with the volute body remaining intact.
- Use of extended coupling also enables the removal of the pump fixtures without moving the motor or the volute body.
- The series has been designed so that parts are easily replaced and standardized. The entire series is made up of only 6 bearings and 10 shaft types, thus simplifying spare parts procurement.

GENERAL SPECIFICATIONS	
Suction Flange	DN 50... DN 400
Discharge Flange	DN 32...DN 350
Operation Pressure	10 Bar
Casing Test Pressure	13 Bar
Operation Temperature	25 – 130°C
Impeller Diameter ø	160...500 mm ø
Speed Range	1000 – 3600 RPM
Flow Rate	5 – 3500 m³ / h
Head Pressure	4 - 105 m

NMM SERIES

Mono-Block Centrifugal Pumps

FIELDS OF APPLICATIONS

- Transfer of corrosive, explosive, burnable, toxic, valuable, volatile and hot liquids.
- Chemical and petrochemical industries
- Detergents known as dangerous fluid in food facilities
- Harmful gas cleaning systems
- Biodiesel facilities
- Heating and cooling systems
- Power stations
- Solar energy systems
- Medical industries
- Electrostatic applications of powdered paint
- Cooling systems of carbon arc furnace

DESIGN

- NM m-Drive series pumps are single stage, end suction, seal-less volute type pumps with magnetic coupling.
- Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced.
- Main dimensions according to EN 733.
- Pump and motor are connected to each other on a base plate by using magnetic coupling.
- Pump can be dismantled without removing pump casing thus maintenance and assembly operations can be easily performed.
- Silicium carbide plain bearings which are lubricated by process fluid are used in NM m-Drive series pump.
- Thanks to magnetic couplings which are used in NM m-Drive series pumps, zero leakage is provided. Outer magnetic rotor is rotated by motor shaft and inner magnetic rotor is rotated synchronously to outer magnetic rotor by magnetic forces
without any physical contact. Inside of the pump is isolated from environment by containment shroud and zero leakage is guaranteed.

GENERAL SPECIFICATIONS	
Suction Flange	DN 50... DN 150
Discharge Flange	DN 32...DN 125
Operation Pressure	10 Bar
Casing Test Pressure	13 Bar
Operation Temperature	-25 – 120°C
Impeller Diameter ø	123...428 mm ø
Speed Range	1450 – 2900 RPM
Flow Rate	5 – 400 m³ / h
Head Pressure	4 – 110 m

NME SERIES

Heavy Duty Chemical Process Pumps

FIELDS OF APPLICATIONS

- Petrol distribution and tanker filling
- Ethanol and biodiesel plants
- Delivery of flammable chemical materials
- Power plants
- Industrial plants
- Starch, fructose and vegetable oil production plants
- Viscous material transfer with heating jacket option
- Heavy Duty Applications

DESIGN

- Single stage, end suction, volute casing ISO EN 2858 DIN 24256 standard pumps. Centerline mounted, single stage volute casing pumps with mechanical seals and heating jacket (Centerline mounted model).
- Single suction, radial and mixed flow closed type impeller is equipped with back wear rings to balance axial loads. Impeller is also balanced dynamically according to ISO 1940-1 G6.3.
- Pump and motor are coupled on a rigid frame by using elastic or ATEX certificated couplings.
- Pump shaft, impeller, bearing housing and other components can be dismantled without removing pump casing. Thus maintenance and assembly operations can be easily performed.
- By using spacer coupling it is possible to dismantle pump without removing motor. Same components can be used at maximum versatility and they can be used in pumps at different dimensions so it is easier to store spare parts and change pump components.

GENERAL SPECIFICATIONS	
Suction Flange	DN 50... DN 400
Discharge Flange	DN 32...DN 350
Operation Pressure	16 Bar
Casing Test Pressure	20 Bar
Impeller Diameter ø	500 mm ø
Speed Range	1000 – 3600 RPM
Flow Rate	5 – 3500 m³ / h
Head Pressure	5–210 m

NM m-DRIVE SERIES

End-Suction Norm Centrifugal Pumps with Magnetic Coupling

FIELDS OF APPLICATIONS

- Transfer of corrosive, explosive, burnable, toxic, valuable, volatile and hot liquids.
- Chemical and petrochemical industries
- Detergents known as dangerous fluid in food facilities
- Harmful gas cleaning systems
- Biodiesel facilities
- Heating and cooling systems
- Power stations
- Solar energy systems
- Medical industries
- Electrostatic applications of powdered paint
- Cooling systems of carbon arc furnace

DESIGN

- NM m-Drive series pumps are single stage, end suction, seal-less volute type pumps with magnetic coupling.
- Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced.
- Main dimensions according to EN 733.
- Pump and motor are connected to each other on a base plate by using magnetic coupling.
- Pump can be dismantled without removing pump casing thus maintenance and assembly operations can be easily performed.
- Silicium carbide plain bearings which are lubricated byprocess fluid are used in NM m-Drive series pump.
- Thanks to magnetic couplings which are used in NM M-Drive series pumps, zero leakage is provided. Outer magnetic rotor is rotated by motor shaft and inner magnetic rotor is rotated synchronously to outer magnetic rotor by magnetic forces without any physical contact. Inside of the pump is isolated from environment by containment shroud and zero leakage is guaranteed.

GENERAL SPECIFICATIONS	
Suction Flange	DN 50... DN 100
Discharge Flange	DN 32...DN 80
Operation Pressure	10 Bar
Casing Test Pressure	14 Bar
Operation Temperature	Up to 300°C
Impeller Diameter ø	120-218 mm ø
Speed Range	1000 – 2900 RPM
Flow Rate	10 – 200 m³ / h
Head Pressure	4 - 65 m
Max. Power	18.5 kW

OMK SERIES

Horizontal High Pressure Multistage Centrifugal Pumps

FIELDS OF APPLICATIONS

In pumping of pure or relatively clean liquids in:
- Drinking water sources.
- High buildings and industrial pressure systems.
- Water treatment systems.
- Fire fighting systems.
- Boilers and condensation process.
- Health and hygienic processes.
- All kinds of industrial applications.
- Water distribution systems.
- Navigation, metallurgy, energy sectors.
- Irrigation systems.

DESIGN

- OMK series pumps are horizontal axis, OMK-V series pumps are vertical axis, and both of them have separable body and are multistage centrifugal pumps that can be dismantled in stages.
- In both series pump impellers are dynamically balanced, single-entry, closed type. The impeller is situated between bearings on either side at OMK series.
- Thrust is balanced by means of back wear rings. Any remaining unbalanced thrust is supported by ball bearings.
- Back wear rings can be changed if desired.
- Both series consists of 5 types which are 32, 40, 50, 65 and 80. Stage number varies between 2 to 14 at OMK series.
- Suction and discharge flanges are PN40 compatible with DIN 2535 at OMK series. BS, ANSI or other standard flange sizes can be obtained if desired.
- Standard assembly has the discharge flange at the motor end with discharge flange facing upwords and suction flange at the dead end facing towards right and rotating clockwise at OMK series. Alternative assembly is possible upon request.

GENERAL SPECIFICATIONS

Suction Flange	DN 50...DN 125 (PN 40) (DIN2535)
Discharge Flange	DN 32...DN 80 (PN 40) (DIN 2535)
Operation Pressure	40 Bar
Stage Number	2-14
Flow Rate	5 - 220 m^3/h
Head Pressure	30 - 400 m
Temperature Rate	10 - 160 °C; Mechanical Seal -10 - 110 °C; Soft Packing
Motor Speed	3600 RPM

OMK-V SERIES

Vertical High Pressure Multistage Centrifugal Pumps

FIELDS OF APPLICATIONS

In pumping of pure or relatively clean liquids in:
- Drinking water sources.
- High buildings and industrial pressure systems.
- Water treatment systems.
- Fire fighting systems.
- Boilers and condensation process.
- Health and hygienic processes.
- All kinds of industrial applications.
- Water distribution systems.
- Navigation, metallurgy, energy sectors.
- Irrigation systems.

DESIGN

- OMK series pumps are horizontal axis, OMK-V series pumpsare vertical axis, and both of them have separable body and are multistage centrifugal pumps that can be dismantled in stages.
- OMK-V pumps have bearings that support radial and axial thrust forces. On the bottom there is a water-lubricated sliding gear.
- Thrust is balanced by means of back wear rings. Any remaining unbalanced thrust is supported by ball bearings.
- Back wear rings can be changed if desired.
- Both series consists of 5 types which are 32, 40, 50, 65 and 80. Stage number varies between 2 to 14 at OMK series.
- Suction and discharge flanges are PN40 compatible with DIN 2535 at OMK series. BS, ANSI or other standard flange sizes can be obtained if desired.
- Pump and motor are connected by means of a common adapter and flexible coupling at OMK-V series.

GENERAL SPECIFICATIONS

Suction Flange	DN 50...DN 125 (PN 40) (DIN 2535)
Discharge Flange	DN 32...DN 80 (PN 40) (DIN 2535)
Operating Pressure	40 Bar
Stage Number	2-14
Flow Rate	5 - 220 m^3/h
Head Pressure	30 - 400 m

DSV SERIES

Vertical Stainless Steel Pumps

FIELDS OF APPLICATIONS

- Apartments and residences.
- Schools, business centers and small industrial installations.
- Demineralized water systems.

DESIGN

- DSV series consist of vertical, staged pumps.
- All parts w hich come into contact with water are made of stainless steel.
- Suction and discharge flanges are along the same axis.
- Simple body and perfect balance provides for low noise and vibration.
- Mechanical seal is completely leakage proof.
- Body, impeller and shaft are stainless steel.
- Energy savings with frequency control devices.
- High performance, safe operation, easy maintenance.

GENERAL SPECIFICATIONS

Protection Class	IP55
Insulation Class	F
Standard Voltage	50 Hz; 1 x 220-230 / 240V 3 x 200-220 / 346-380V 3 x 220-240 / 380-415V 3 x 380-415V
Normal Type	-15 °C ~ +70 °C
Type for Hot Water	+70 °C ~ +120 °C
Ambient Temperature	Up to +40 °C
Altitude	Up to 1000 m

SPLT/SPLT-V SERIES

Split Case Double Suction Centrifugal Pumps

FIELDS OF APPLICATIONS

- Water supply and booster stations.
- Water purification processes.
- Industrial washing.
- Fire fighting systems.
- Industrial and public applications.
- Marine and metallurgy sectors, power plants.
- Agricultural irrigation systems.
- General application in refineries.

DESIGN

- Single stage, axially split casing, double-suction pumps.
- Double entry radial impeller has hydraulic thrust compensation.
- Suction and discharge flanges are along the same line.
- Upper body is lighter than the lower body and joins it in such a way that it is easily assembled.
- Double suction pumps have the advantage of low NPSH (net positive suction head) features.
- The pump has two different types:
- SPLT - Long type: heavy service type. Is suitable for soft gasket application and the use of a mechanical seal is optional."
- The pump and the motor are connected by means of a flexible coupling on a common shaft. Diesel motor capable.
- SPLT-V pumps are manufactured with mechanical seal
- In SPLT-V pumps are placed on the Robust and reliable pump base, manufactured with welding construction.

GENERAL SPECIFICATIONS

Suction Flange	DN 80... DN 250
Discharge Flange	DN 65...DN 200
Operating Pressure	16 - 20 Bar
Temperature	-10 – 110 °C
Speed Range	960 – 3500 RPM
Flow Rate	30 – 4000 m^3 / h
Head Pressure	15 - 160 m

HDSV SERIES GENiO

Stainless Steel Vertical Booster Sets - Frequency Controlled

FIELDS OF APPLICATIONS

- Apartments and residences
- Schools, business centers and small industrial installations
- Hotels and social installations.

DESIGN

- The pumps used in HDSV GENiO type water pressure boosters are multistage stainless steel centrifugal pumps with vertical shaft and frequency inverter on-motor.
- HDSV GENiO type water pressure boosters can be manufactured in the form of one, two, three or four pumps according to flow rate need.
- Water pressure boosters can be operated automatically or manually. Water pressure boosters should be automatically operated as long as there is no compulsory case.
- The set is supplied with float switch that regulates dry run protection.
- During first operation of water pressure booster system, the suction collector should be filled with water and the air of the system should be released.
- The water should be come to suction collector in shortest way and flatly, suction diameter coming from tank should not be smaller than suction collector diameter.
- For regular operation, pressure tank should be used in appropriate size in order to decrease start number of the pump.
- Pumps run automatically by pressure control depending on required water volume and stop running when the required water volume decreases.

GENERAL SPECIFICATIONS	
Flow Rate	1 – 320 (4x80) m3/h
Head Pressure	0 – 150 m
Operating Pressure	20 Bar (Max.)
Motor Speed	2900 RPM
Temperature Range	-15 °C / +120 °C

DM SERIES

Single and Multi Pump Unit Boosters

FIELDS OF APPLICATIONS

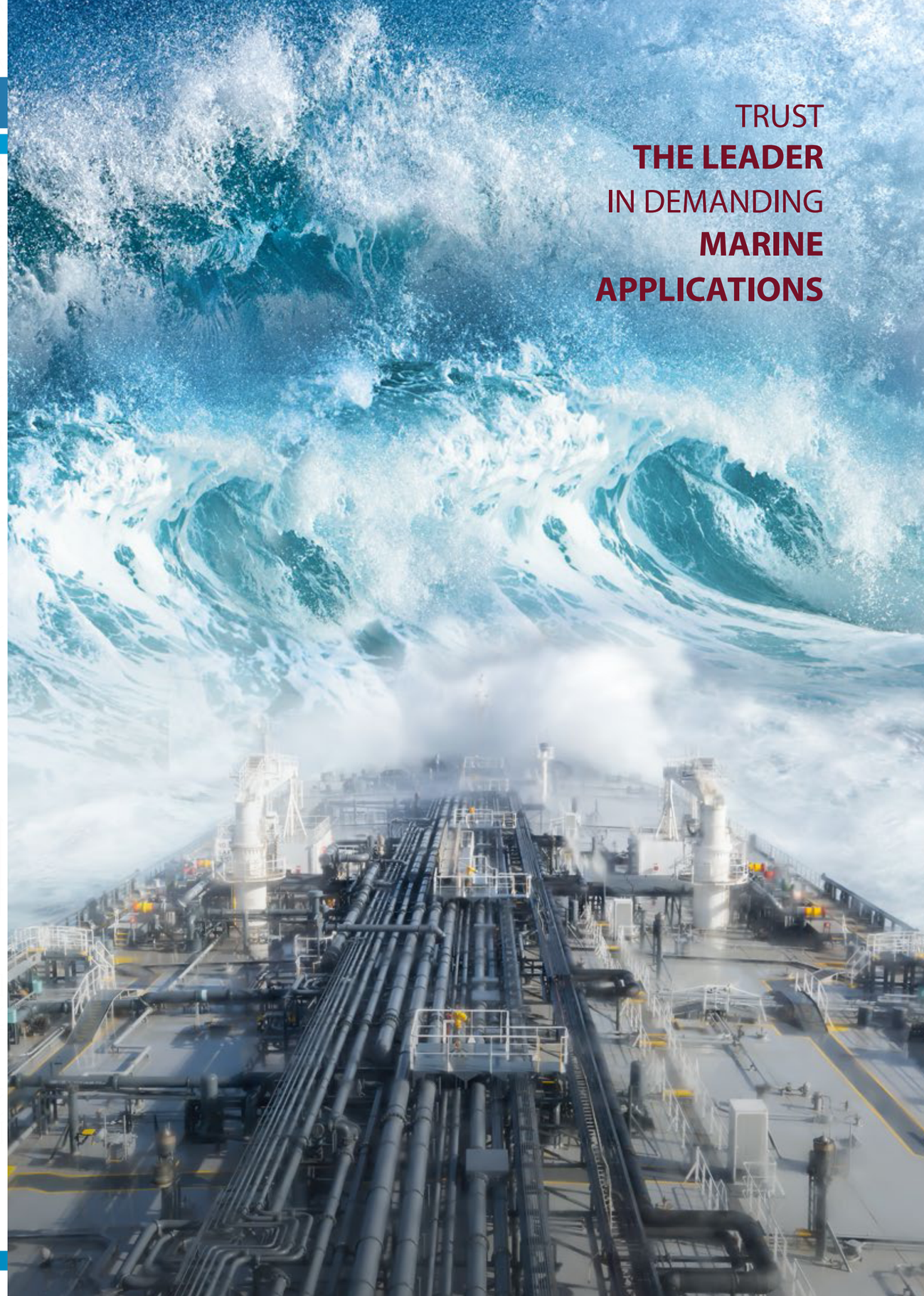
For pumping of thin, clean, non-aggressive and non-explosive liquids free from solid particles and fibres in:

- Water supply systems,
- Booster sets in high rise buildings and industry,
- Water treatment systems,
- Industrial facilities for process water,
- Sanitary and cleaning installations,
- Irrigation plants,
- Fire extinguishing plants,

DESIGN

- In DM series booster sets, DF type pumps are used.
- DF series pumps is a vertical axis, ring section design multistage centrifugal pump of non-self priming type. They have an impeller made of noryl material and they are driven with a standard electric motor.
- Pump and motor are connected to each other via rigid coupling.
- The pressure-resistant casing and the components which fluid is flowing through are anchored by using casing studs between top side and bottom side of the pump.
- While suction nozzle is located bottom side of the pump, discharge nozzle is located top side of the pump.
- When viewed from driver side, rotation of direction is clockwise.

GENERAL SPECIFICATIONS	
Flow Rate	2 – 240 m³/h
Head Pressure	20 – 150 m
Operating Pressure	16 Bar (Max.)
Temperature Range	0 – 60 °C
Motor Speed	2900 RPM



YNM 525-825-1531

End Suction Centrifugal Fire Pumps

FIELDS OF APPLICATIONS

- Hospitals
- Offices
- Airports
- Factories
- Power

DESIGN

- These are end suction, single stage centrifugal pumps. These three pumps, YNM 525, YNM 825 and YNM 1531 are used for flow rates ranging between 50 and 1250 gpm.
- The main pump dimensions are compatible with DiN 24256. The pump flanges are designed according to UL standards ANSI/ASME B16 Class 250.
- The pump performances are compatible with UL standards.
- The single suction, closed type impeller is dynamically balanced against the thrust by use of back wear rings.
- Shaft leak prevention is provided by 5 unit soft packing according to UL448 requirements.
- The parts inside the pumps that are in contact with water, such as bolts or bolt screws, are made of non-corrosive materials.

GENERAL SPECIFICATIONS

Flow Rate	50 – 1250 gpm (10 – 280 m³/h)
Head Pressure	80 – 155 psi (55 – 110 m)
Operating Pressure	14 Bar
Temperature	0 – 60 °C
Speed Range	2900 RPM
Suction Flange	DN 80 – DN 200
Discharge Flange	DN 50 – DN 150

YNM SERIES

End Suction Centrifugal Fire Pumps

FIELDS OF APPLICATIONS

- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Warehouse

DESIGN

- These are single stage, end suction centrifugal pumps.
- The main pump dimensions are compatible with DiN 24256 (ISO 2858).
- Performances are compatible with NFPA standards.
- The single entry, enclosed impeller is dynamically balanced against thrust (axial force) by means of balance holes and back wear rings. The pump and the motor are connected by flexible coupling onto a common base plate.
- Shaft leak prevention is provided by soft packing gaskets according to NFPA requirements.
- The maintenance of the pump is very easy. The shaft and the rotating parts can easily be removed without touching the suction and discharge systems.
- Since there are very many common parts it is easy find and store spare parts

GENERAL SPECIFICATIONS

Suction Flange	DN 65... DN 125
Discharge Flange	DN 40... DN 100
Flow Rate	11 – 227 m³/h
Head Pressure	30 – 140 m

YPSP SERIES

Pumps Split Case Double Suction Centrifugal Fire

FIELDS OF APPLICATIONS

Fire systems
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Warehouse

DESIGN

- Single stage, horizontal, separable body, radial impeller, double suction pumps.
- The back-to-back design of the double entry radial impellers eliminates all thrust.
- The suction and discharge flanges are along the same axis.
- Easy assembly feature.
- Double suction pumps have the advantage of low NPSH features.
- The pump and electric motors are connected to the chassis by means of flexible. Diesel motors can alsa be used.
- in standard manufacture, the impeller, the body abrasion gasket and the gland are bronze while the casing is of stainless steel

GENERAL SPECIFICATIONS

Flow Rate	100 – 2000 GPM (23 – 454 m³/h)
Head Pressure	60 – 274 psi (44 – 188 m)
Operating Pressure	16 - 24 Bar
Speed Range	1800 – 2900 RPM
Suction Flange	DN 100 – DN 250
Discharge Flange	DN 65 – DN 200

YPSP SERIES

End Suction Centrifugal Fire Pumps

FIELDS OF APPLICATIONS

- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Warehouse

DESIGN

- These are single stage, end suction centrifugal pumps.
- The main pump dimensions are compatible with DiN 24256(ISO 2858).
- Performances are compatible with NFPA standards.
- The single entry, enclosed impeller is dynamically balanced against thrust (axial force) by means of balance holes and back wear rings. The pump and the motor are connected by flexible coupling onto a common base plate.
- Shaft leak prevention is provided by soft packing gaskets according to NFPA requirements.
- The maintenance of the pump is very easy. The shaft and the rotating parts can easily be removed without touching the suction and discharge systems.
- Since there are very many common parts it is easy find and store spare parts.

GENERAL SPECIFICATIONS

Suction Flange	DN 80... DN 250
Discharge Flange	DN 65... DN 200
Flow Rate	50 – 2500 m³/h
Head Pressure	20 – 180 m
Operating Pressure	16 – 20 Bar
Speed Range	1450 – 3600 RPM

Split Case Double Suction Centrifugal Fire Pumps

General Specifications

Flow Rate	: 50 ... 2500 m^3/h
Head	: 20 - 180 m
Operation Pressure	: 16 - 20 Bar
Motor Speed Range	: 1450 - 3600 rpm
Suction Flange	: DN 100 ... DN 250
Discharge Flange	: DN 65 ... DN 200

Fields of Applications

Fire systems
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

Utilizations
- Sprinkling systems
- Hydrant systems
- Flood systems
- Monitor systems
- Water screens

Design
- Single stage, horizontal, separable body, radial impeller, double suction pumps.
- The back-to-back design of the double entry radial impellers eliminates all thrust.
- The suction and discharge flanges are along the same axis.
- Easy assembly feature.
- Double suction pumps have the advantage of low NPSH features.
- The pump and electric motors are connected to the chassis by means of flexible. Diesel motors can also be used.
- In standard manufacture, the impeller, the body abrasion gasket and the gland are bronze while the casing is of stainless steel.

End Suction Centrifugal Fire Pumps

General Specifications

Flow Rate	: 20 ... 105 m^3/h
Head	: 35 - 105 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 2900 ... 3600 rpm
Suction Flange	: DN 65 ... DN 200
Discharge Flange	: DN 50 ... DN 150

Fields of Applications
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

Utilizations
- Sprinkling systems
- Hydrant systems
- Flood systems
- Monitor systems
- Water screens

Design
- These are single stage, end suction centrifugal pumps.
- The main pump dimensions are compatible with DIN 24256 (ISO 2858).
- Performances are compatible with NFPA standards.
- The single entry, enclosed impeller is dynamically balanced against thrust (axial force) by means of balance holes and back wear rings. The pump and the motor are connected by flexible coupling onto a common base plate.
- Shaft leak prevention is provided by soft packing gaskets according to NFPA requirements.
- The maintenance of the pump is very easy. The shaft and the rotating parts can easily be removed without touching the suction and discharge systems.
- Since there are very many common parts it is easy find and store spare parts.

End Suction Centrifugal Fire Pumps

General Specifications

Flow Rate	: 50 - 1250 gpm
	: 10 - 280 m^3/h
Head	: 80-155 psi
	: 55 - 110 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0...60 °C
Motor Speed Range	: 2950 rpm
Suction Flange	: DN 80 ... DN 200
Discharge Flange	: DN 50 ... DN 150

Fields of Applications
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

Utilizations
- Sprinkling systems
- Hydrant systems
- Flood systems
- Monitor systems
- Water screens

Design
- These are end suction, single stage centrifugal pumps. These three pumps, YNM 525, YNM 825 and YNM 1531 are used for flow rates ranging between 50 and 1250 gpm.
- The main pump dimensions are compatible with DIN 24256. The pump flanges are designed according to UL standards ANSI/ASME B16 Class 250.
- The pump performances are compatible with UL standards.
- The single suction, closed type impeller is dynamically balanced against the thrust by use of back wear rings.
- Shaft leak prevention is provided by 5 unit soft packing according to UL448 requirements.
- The parts inside the pumps that are in contact with water, such as bolts or bolt screws, are made of non-corrosive materials.

UL FM APPROVED

Split Case Double Suction Centrifugal Fire Pumps

General Specifications

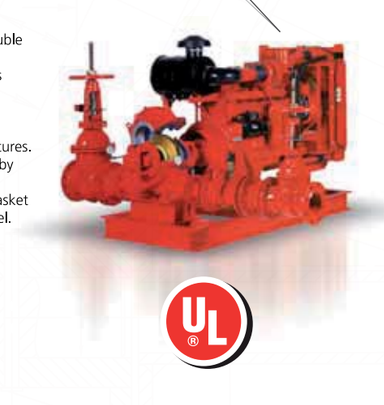
Flow Rate	: 100 ... 2000 gpm
	23 ... 454 m^3/h
Head	: 44 - 188 m / 60 - 274 psi
Operation Pressure	: 16 - 20 Bar
Motor Speed Range	: 1800 - 2950 rpm
Suction Flange	: DN 100 ... DN 250
Discharge Flange	: DN 65 ... DN 200

Fields of Applications

Fire systems
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

Utilizations
- Sprinkling systems
- Hydrant systems
- Flood systems
- Monitor systems
- Water screens

Design
- Single stage, horizontal, separable body, radial impeller, double suction pumps.
- The back-to-back design of the double entry radial impellers eliminates all thrust.
- The suction and discharge flanges are along the same axis.
- Easy assembly feature.
- Double suction pumps have the advantage of low NPSH features.
- The pump and electric motors are connected to the chassis by means of flexible. Diesel motors can also be used.
- In standard manufacture, the impeller, the body abrasion gasket and the gland are bronze while the casing is of stainless steel.



UL

End Suction Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 3500 m³/h
Head	: 4 ... 105 m
Operation Pressure	: 10 Bar
Operation Temperature	: -20 ... 110°C
Motor Speed Range	: 1000 ... 3600 rpm
Suction Flange	: DN 50 ... DN 400
Discharge Flange	: DN 32 ... DN 350

Fields of Applications

- Water supply and booster stations.
- Irrigation, sprinkling, drainage processes.
- Tank systems.
- Hot-cold water circulation in cooling systems.
- Pumping of condensed water.
- Circulating water in pools.
- Industrial and domestic fluid pumping processes.
- Marine applications.

Design

- Single stage, end suction, centrifugal volute pump.
- Main dimensions, compatible with EN 733 (DIN 24255) norm. A total of 48 designed pumps available in the series.
- Single suction with closed impeller, and thrust balanced by means of counter-balancing holes and back wear rings, thus acquiring a dynamic balance.
- The pump and the motor have a standard connection to the common base plate with a flexible coupling. Maintenance and repair procedures are easily carried out since the pump fixtures can be removed with the volute body remaining intact.
- Use of extended coupling also enables the removal of the pump fixtures without moving the motor or the volute body.
- The series has been designed so that parts are easily replaced and standardized. The entire series is made up of only 6 bearings and 10 shaft types, thus simplifying spare parts procurement.

Mono-block Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 450 m³/h
Head	: 4 ... 100 m
Operation Pressure	: 10 Bar
Operation Temperature	: -10...110°C
Motor Speed Range	: 1000 ... 3600 rpm
Suction flange	: DN 50 ... DN 200 (PN 16) (DIN 2535)
Discharge Flange	: DN 32 ... DN 150 (PN 16) (DIN 2535)

Fields of Applications

- Water supply and pumping centers.
- Irrigation, sprinkling, drainage processes.
- Tank systems.
- Hot-cold water circulation in cooling systems.
- Pumping of condensed water.
- Swimming pool water circulation.
- Industrial and domestic fluid pumping processes.
- Marine applications.

Design

- NMM series pumps are single stage, end suction, mono-block type centrifugal volute pumps. They are of standard production with enclosed impeller and mechanical seal.
- Basic dimensions and flow rate EN 733 (DIN 24255) are compatible with proposed values.
- The thrust (axial force) acting on the motor is compensated by means of the abrasion gasket and balancing holes
- Motor and pump are two separate components and there are two shafts. The motor shaft is joined to the pump shaft by a special clamp. In the case of motors with power over a certain value the pump and the motor shafts are joined by separate rigid coupling.
- Maintenance - repair processes are very easy due to the back pull-out design.
- Effective use of common parts in the design of the NMM series facilitates spare parts acquisition and delivery times.
- Standard asynchronous motors are used for propulsion.
- In NMM pumps shaft leaking is prevented with a mechanical seal. All radial and axial thrust forces are supported by the motor bearing.

Split Case Double Suction Centrifugal Pumps

General Specifications

Flow Rate	: 30 - 4000 m³/h
Head	: 10 - 160 m
Operation Pressure	: 16 - 20 Bar
Operation Temperature	: - 10 ... 110°C
Motor Speed Range	: 960 ... 3500 d/d
Suction Flange	: DN 80 ... DN 500
Discharge Flange	: DN 65 ... DN 500

Fields of Applications

- Water supply and booster stations.
- Water purification processes.
- Industrial washing.
- Fire fighting systems.
- Industrial and public applications.
- Marine and metallurgy sectors, power plants.
- Agricultural irrigation systems.
- General application in refineries.

Design

- Single stage, axially split casing, double-suction pumps.
- Double entry radial impeller has hydraulic thrust compensation.
- Suction and discharge flanges are along the same line.
- Upper body is lighter than the lower body and joins it in such a way that it is easily assembled.
- Double suction pumps have the advantage of low NPSH (net positive suction head) features.
- The pump has two different types:
- SPLT - Long type: heavy service type. Is suitable for soft gasket application and the use of a mechanical seal is optional.
- SPLT - M Short type: Compact type pumps with short type shaft for only mechanical seal applications are also produced.
- The pump and the motor are connected by means of a flexible coupling on a common shaft. Diesel motor capable.

Vertical Split Case Double Suction Centrifugal Pumps

General Specifications

Flow Rate	: 30 - 3500 m³/h
Head	: 10 - 120 m
Operation Pressure	: 16 - 20 Bar
Operation Temperature	: - 10 ... 110°C
Motor Speed Range	: 960 ... 3500 rpm
Suction Flange	: DN 80 ... DN 500
Discharge Flange	: DN 65 ... DN 500

Fields of Applications

- Maritime application.
- Water supply and booster stations.
- Industrial washing.
- Industrial and public applications.
- General application in refineries.

Design

- Single stage, vertical split case, double-suction pumps.
- Vertical mounting arrangement allows drive motor to be mounted vertically, this is an advantage in installations where effective use of space is crucial.
- Double entry radial impeller has hydraulic thrust compensation.
- Lower casing is in-line design, suction and discharge flange are on the same line.
- The NPSH values are reduced and high suction lifts are possible thanks to double suction impeller.
- Mechanical seals are used to prevent leakage.

Vertical Stainless Steel Pumps

General Specifications

Flow Rate	: 0-110 m³/h
Head	: 20-300 m
Operation Pressure	: 17 Bar
Motor Speed Range	: 2900-3600 rpm
Suction Flange	: DN 25 - DN100
Discharge Flange	: DN 25 - DN100

Fields of Applications

- Apartments and residences.
- Schools, business centers and small industrial installations.
- Demineralized water systems

Design

- DSV series consist of vertical, staged pumps.
- All parts which come into contact with water are made of stainless steel.
- Suction and discharge flanges are along the same axis.
- Simple body and perfect balance provides for low noise and vibration.
- Mechanical seal is completely leakage proof.
- Body, impeller and shaft are stainless steel.
- Energy savings with frequency control devices.
- High performance, safe operation, easy maintenance.

High Pressure Opposed Impeller Multistage Pumps

General Specifications

Flow Rate	: 5 ... 100 m³/h
Head	: 100 ... 700 m
Operation Pressure	: 40 (64) Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 6 ... 18
Motor Speed Range	: 2900 ... 3600 rpm
Suction Flange	: DN 40 ... DN 80
Discharge Flange	: DN 32 ... DN 65

Fields of Applications

- High pressure water pumping stations.
- High buildings and industrial installations for pumping water.
- High pressure washing systems.
- Boilers and condensation process.
- Health and hygienic processes.
- Industrial installations for provision of process water.
- Sea water treatment (Reverse Osmosis).

Design

- The KMK group pumps consists of horizontal axis, radially split, multi-staged centrifugal pumps with opposed (back to back) impellers.
- In standard manufacture, when viewed from the motor end, the suction port is at the dead end side of the pump on the left and the discharge flange is in the middle and above. By special request the discharge port can be situated in the place of the suction flange. In that case the direction of rotation should be specified (either to the right or left). Suction and discharge flanges are compatible with DIN 2546. Suction flange can be turned to the right, left or up by 90°.
- Closed type and fully radial pump impellers are dynamically balanced. Thrust (axial force) is automatically balanced by converse impellers.
- KMK type pumps are made of AISI 420 quality stainless steel and finely grained shafts.

Chemical Process Pumps

General Specifications

Flow Rate	: 1 - 80 m³/h
Head	: 0 - 40 m
Operation Pressure	: 16 Bar
Motor Speed Range	: 1000 - 3600 rpm
Suction Flange	: DN 50 - DN 65
Discharge Flange	: DN 32 - DN 50

Fields of Applications
- Transfer of hazardous organic and inorganic liquids in chemical and petrochemical industries.
- Refineries.
- Paper industry.
- Food industry.
- Sugar industry.
- Sea water treatment systems.
- Power plants.

Design
- CPM type consists of horizontal suction, vertical discharge flange, single stage volute pumps. Open impellers compatible with DIN 24 256 and TS-EN 22 858 standards are used.
- Suction and discharge flanges are compatible with the DIN 2533 standards.
- Fully radial and open wing impellers are dynamically balanced. Thrust is balanced by back vanes.
- Because the shaft diameter is resistant to bending due to the short distance between the bed and the volute, the shaft has a compact and rigid structure. The rigid shaft enables operation under different loads.
- Roller bearings lubricated with oil or grease are used in centrifugal pumps.

Thermal oil pumps

General Specifications

Flow Rate	: 10 ... 400 m³/h
Head	: 5 - 100 m
Operation Pressure	: 16 Bar
Operation Temperature	: 100 ... 350°C
Motor Speed Range	: 1500 - 3000 rpm
Suction Flange	: DN 40 ... DN 125
Discharge Flange	: DN 32 ... DN 100

Fields of Applications
- Transfer of heat transfer fluid.
- Chemical installations and refineries.
- Paper and sugar industry.
- Food and pharmaceutical industries.
- Leather industry.
- Plastic and synthetic fiber industries.
- Rubber industry.
- Vulcanizing and heating industry.
- Textile industry.

Design
- Single stage, end suction centrifugal pumps.
- Main pump dimensions are compatible with DIN 24256 (ISO 2858).
- Single entry, closed type impeller is used.
- Radial vanes are used behind the impellers to lower the pressure and to balance the thrust (axial force).
- The pump and the motor are connected by means of a flexible coupling on a common base plate.
- Maintenance of the pump is very easy. The shaft and other rotating parts can be removed without dismantling the suction and the discharge system.
- Since the pump uses many standard parts, spare parts are readily available.
- These pumps are designed so that there is no need for external cooling. Due to natural convection the pump temperature decreases towards the roller bearing.

Pumps with Self-Priming Unit

General Specifications

Flow Rate	: 2 ... 500 m³/h
Head	: 2 ... 100 m
Operation Pressure	: 10 Bar
Motor Speed Range	: 900 - 3600 rpm
Suction Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)
Discharge Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)

Fields of Applications
- Fresh water and sea water pumping in ships.
- Bilge water, fire, cooling water, sea water and fresh water in tanker
- Industrial and social installations for self-priming.

Design
- A vacuum pump connected to the suction end of the in-line pump carries out the suctioning.
- When the device is activated, the vacuum pump goes into operation, dropping the pressure at the intake and allowing the pump to suction water. When the pump begins to suction water, the panel stops the vacuum pump.
- This system is equipped with a 0,3- 12 Bar pressure switch, 0 - 16 bar pressure gage and solenoid valve.

Booster Pumps

General Specifications

Flow Rate	: 2 - 60 m³/h
Head	: 20 - 150 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 2900 rpm

Fields of Applications
- Apartments and residences.
- Drinking water and tap water systems.
- Process and fire water provision.
- School, business and social installations.
- Hotels and holiday villages.
- Industrial installations, factories.

Design
- Multistage, vertical shaft pumps used in DS - DB - DM - DMA - DMB - DM65 type boosters.
- DS - DB - DM - DMA - DMB - DM65 type boosters can be produced with one, two, three or four pumps depending on the depth for which they will be used.
- Level floaters of the booster set prevent the pump from functioning without water.
- The shafts in booster pumps are hexagonal and are made of AISI 430F materials.
- In booster pumps bearings are used to compensate for thrust. In addition, there is a sliding bearing underneath made of sintered bronze.
- A mechanical seal prevents water leakage at the shaft.

Multi Pump Unit Boosters

General Specifications

Flow Rate	: 0 - 240 m³/h
Head	: 20 - 150 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 rpm

Fields of Applications
- Apartments and residences
- Drinking water and water utilization systems
- Providing water for processes and fire fighting
- School, business and social facilities
- Hotels and holiday villages
- Industrial plants, factories.

Design
- The DS - DB - DM - DMA - DMB - DM65 type multi-pump boosters consist of two to four multi-stage, vertical shaft centrifugal pumps.
- The boosters can be operated automatically or manually. The boosters should be operated automatically unless necessary otherwise.
- Level floaters of the booster set prevent the pump from functioning without water.
- In order to reduce the number of stops and restarts, a pressure stabilizing tank of convenient volume is utilized.
- The pump and the motor are connected by means of a rigid coupling.
- Water should enter the suction port from a straight path via the shortest way possible,
- The diameter of the suction port of the tank cannot be smaller than the diameter of the suction port on the pump.
- Pump rotation is clockwise when viewed from the motor end.

Single Pump Unit Boosters

General Specifications

Flow Rate	: 2 - 60 m³/h
Head	: 20 - 150 m
Operation Pressure	: 16 Bar (Max)
Motor Speed Range	: 2900 - 3600 rpm
Suction Flange	: 1"1/4 - 3"
Discharge Flange	: 1"1/4 - 2"

Fields of Applications
- Apartments and residences
- Drinking water and water utilization systems
- Providing water for processes and fire fighting
- School, business and social facilities
- Hotels and holiday villages
- Industrial plants, factories.

Design
- The DS - DB - DM - DMA - DMB - DM65 type booster pumps consist of single, multistage, vertical shaft centrifugal pumps.
- The boosters can be operated automatically or manually. The boosters should be operated automatically unless necessary otherwise.
- Level floaters of the booster set prevent the pump from functioning without water.
- The pump and the motor are connected by means of a rigid coupling.
- In order to reduce the number of stops and restarts, a pressure stabilizing tank of convenient volume is utilized.
- The pump and the motor are connected by a rigid coupling.
- The pump rotation is clockwise when viewed from the motor end.

Danpumps Pumps for Wastewater Applications

The Danpumps Wastewater Programme

The Danpumps-WP-range is the combination between high efficiency, intelligent design and practical features. This gives you a user-friendly pump with a long life cycle.
The WP-range covers complete series of high quality and user-friendly wastewater pumps.
From the smallest S-WP0- suitable for light industrial effluents to the S-WP5- capable of handling heavy duty wastewater jobs from cities and industries.

Dry, Wet and Portable Wastewater Pumps

The Danpumps WP product programme is delivered for dry, wet or portable installations and with the choice of a vortex, a B-tween or a channel impeller. As an option all Danpumps dry pit wastewater pumps can be delivered with IEC standard motors S-WN type.

High-efficiency Motors with Unique Heating & Moisture Protection

The motors classified according to IE2 All Danpumps-WP motors also have class H insulation, three thermal overload switches and a moisture sensor to alert the owner of moisture intrusion before damage is caused to the motor.

Oversized shafts

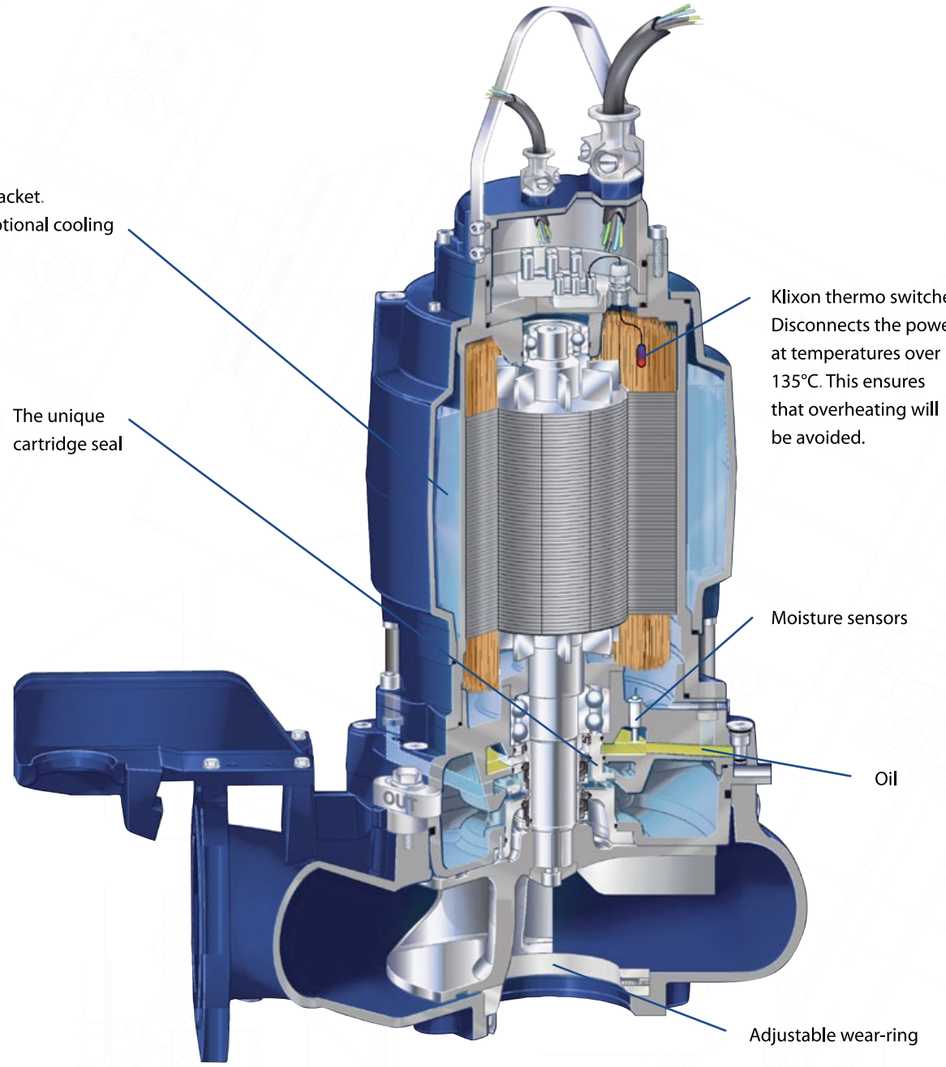
Each pump has its own oversized shaft - oversized to ensure a smooth running pump without vibrations even at maximum power. This ensures many hours of reliable service both for the parts and for the pump as a whole. This guarantees a controlled temperature within the pump, which also protects the shaft and the motor windings.

Danpumps-WP4

FM APPROVED CE Ex

Danpumps-WN

Danpumps-WP1



Exceptional Cooling

The cooling jacket from Danpumps ensures optimal cooling of the motor in most operating conditions such as converter drive, dry installations and low level sump where overheating is otherwise likely to occur. Danpumps dry and portable wastewater pumps are delivered with a cooling jacket as standard. For the Danpumps wet pit pumps the cooling jacket is an optional choice.

The cooling system is driven by an internal impeller placed in the mechanical cartridge seal that circulates the cooling liquid through the passages around the motor. The cooling liquid absorbs the high temperature from the motor and passes it on to the media being pumped through the pump.

As the system is a closed cooling system it does not use the media for cooling and the system does not clog due to the sludge.

As the temperature is controlled throughout the complete pumping process the parts of the pump are protected from too much starting and stopping, heating and cooling. The bearings, o-rings and mechanical seals all benefit from this reliable service, which again contributes to a long life for the pump.

Danpumps Pumps for Wastewater Applications

Unique Cartridge Seals and Easy Maintenance

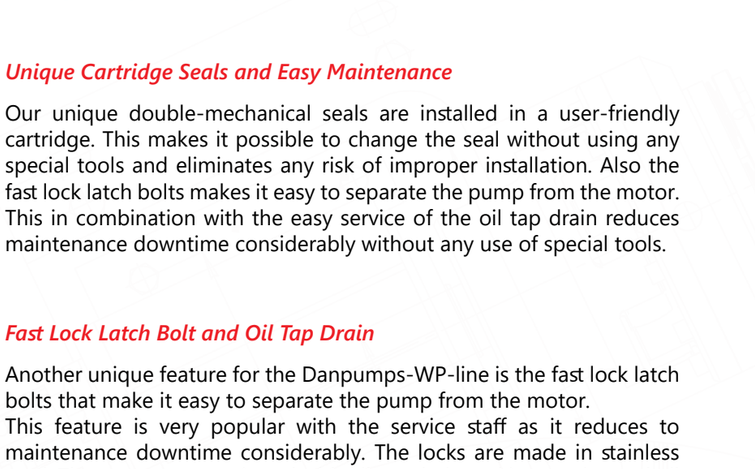
Our unique double-mechanical seals are installed in a user-friendly cartridge. This makes it possible to change the seal without using any special tools and eliminates any risk of improper installation. Also the fast lock latch bolts makes it easy to separate the pump from the motor. This in combination with the easy service of the oil tap drain reduces maintenance downtime considerably without any use of special tools.

Fast Lock Latch Bolt and Oil Tap Drain

Another unique feature for the Danpumps-WP-line is the fast lock latch bolts that make it easy to separate the pump from the motor.
This feature is very popular with the service staff as it reduces to maintenance downtime considerably. The locks are made in stainless steel. The pumps are equipped with oil tap drain making service and oil change very easy.

Higher Efficiency with Adjustable Wear-ring

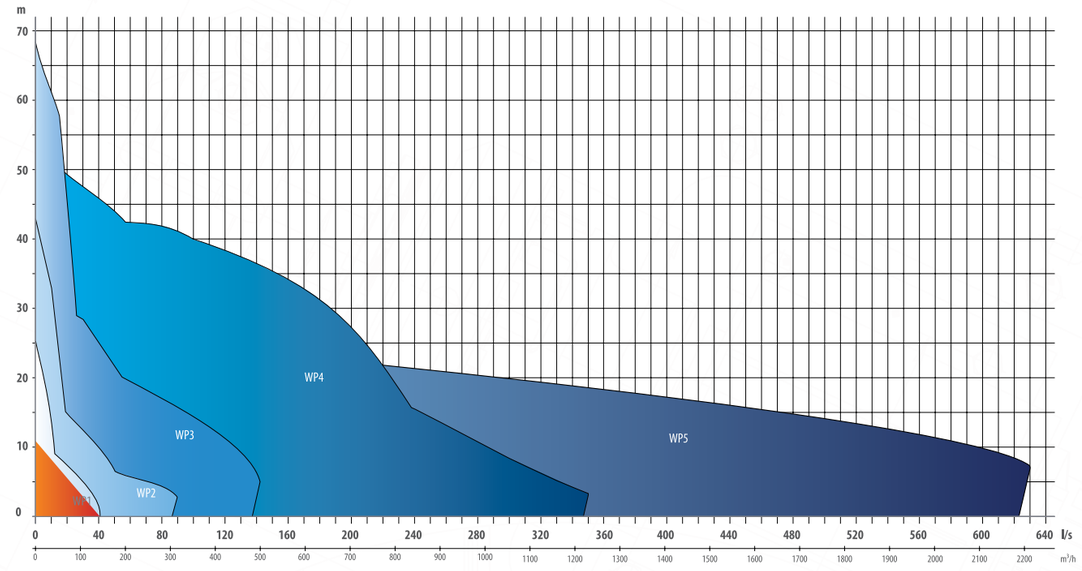
Danpumps Pumps use an axially adjustable wear-ring to reduce the hydraulic loss between the impeller and the wear-ring.
With this feature the wear-ring can be regularly adjusted to optimize the pump efficiency when the pump starts to be affected by wear.



Fast lock latch bolt

Stainless steel impeller

Double mechanical cartridge seal



Customized Impellers

Danpumps Pumps have a wide variety of Channel 1, Channel 2, Vortex and B-tween impellers. They are delivered standard in ductile cast iron GJS-400-15 (GGG40) or in stainless steel (AISI 316) as an option. All the impellers are designed for non-clogging and all the impellers fit in the same volute and will be trimmed according to customer demands.

Advantages:

- Cartridge seal
- Fast lock latch bolts
- Oil tap drain
- Closed cooling jacket
- Adjustable wear ring
- Channel and vortex impellers in the same volute
- High-efficiency motors
- Few spare parts
- Easy maintenance and dismantling

Pump housing, base elbow, sealing housing	Grey cast iron GJL-250 (GG25) A48 Class 35
Impeller (cast iron), adapter	Ductile cast iron GJS-400-15 (GGG-40) A536 GR 65-45-15
Stainless impeller (option)	Stainless cast steel W. Nr. 1.4401 / AISI 316
Shaft	Stainless steel W. Nr. 1.4057 / AISI 431
Seal sleeve, screws	Stainless steel W. Nr. 1.4301 / AISI 304
Coolant	20% Propylene glycol 80% Water
O-rings	Nitrile / NBR
Oil	Mobil DTE 24 / Premium Hydraulic
Mechanical seal	Media side: SIC/SIC Cooling side: SIC (Carbon)
Motor	Siemens / EFF I / Class H

PUMPTEC

5 El Leithy St., Off El-Nasr St., New Maadi, Cairo, Egypt.
Phone: (+202) 27045833 / **Fax:** (+202) 27045844
E-mail: pumptec2000@hotmail.com

SONDEX PX PUMPER A/S · NFPA · abs · FM APPROVED · MAS DAF Mas Grup · UL LISTED

www.pumptec2000.com

Copyright © pumptec. All Rights Reserved VOW ADVERTISING