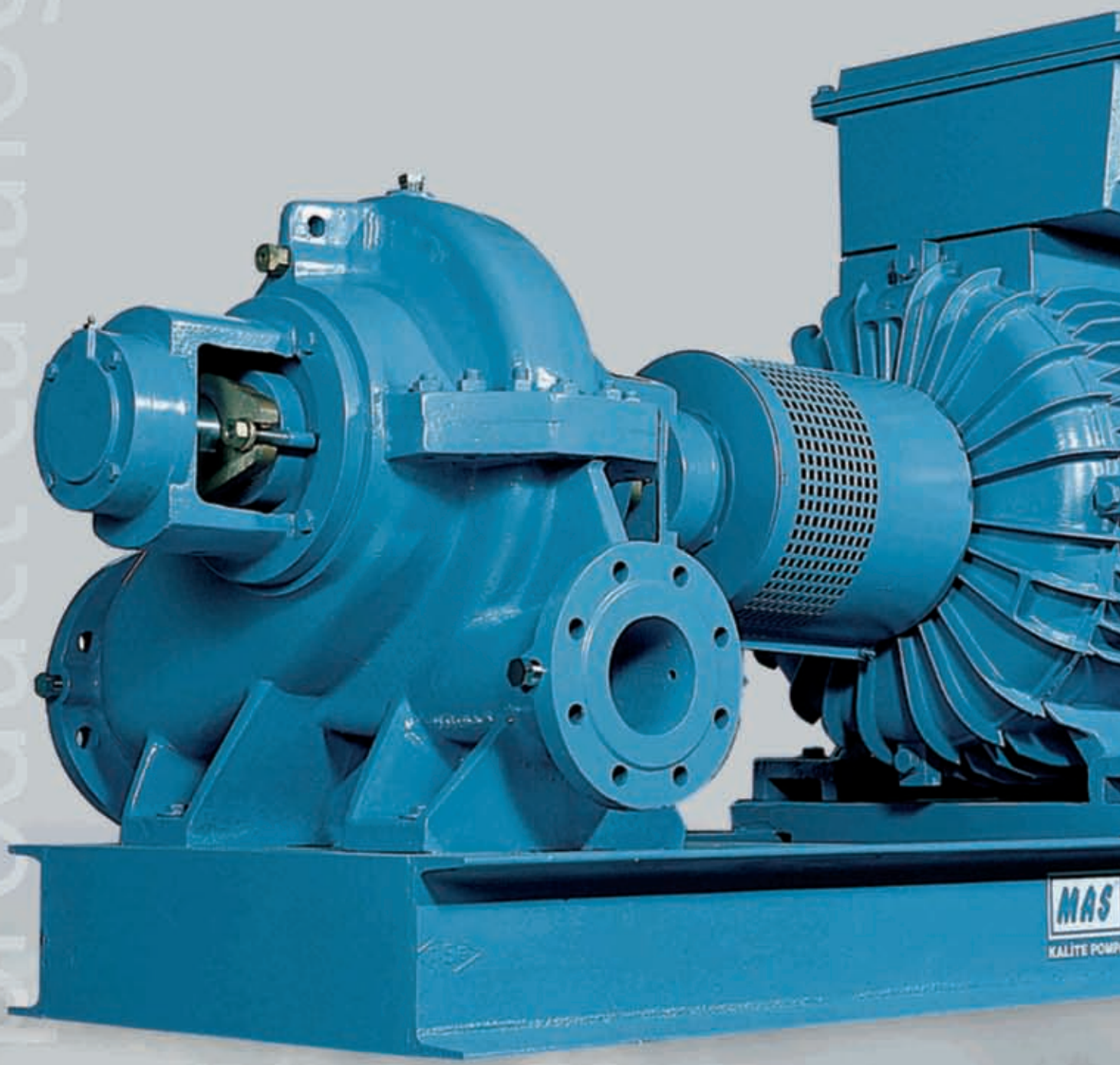
general product catalog



general product catalog

MAS® DAF®

POMSAD Europump GOST UKR SEPRO TSE LISTED NFPA

UL
LISTED
CE
POMSAD
TSE
Europump
GOST
TÜV
NFPA

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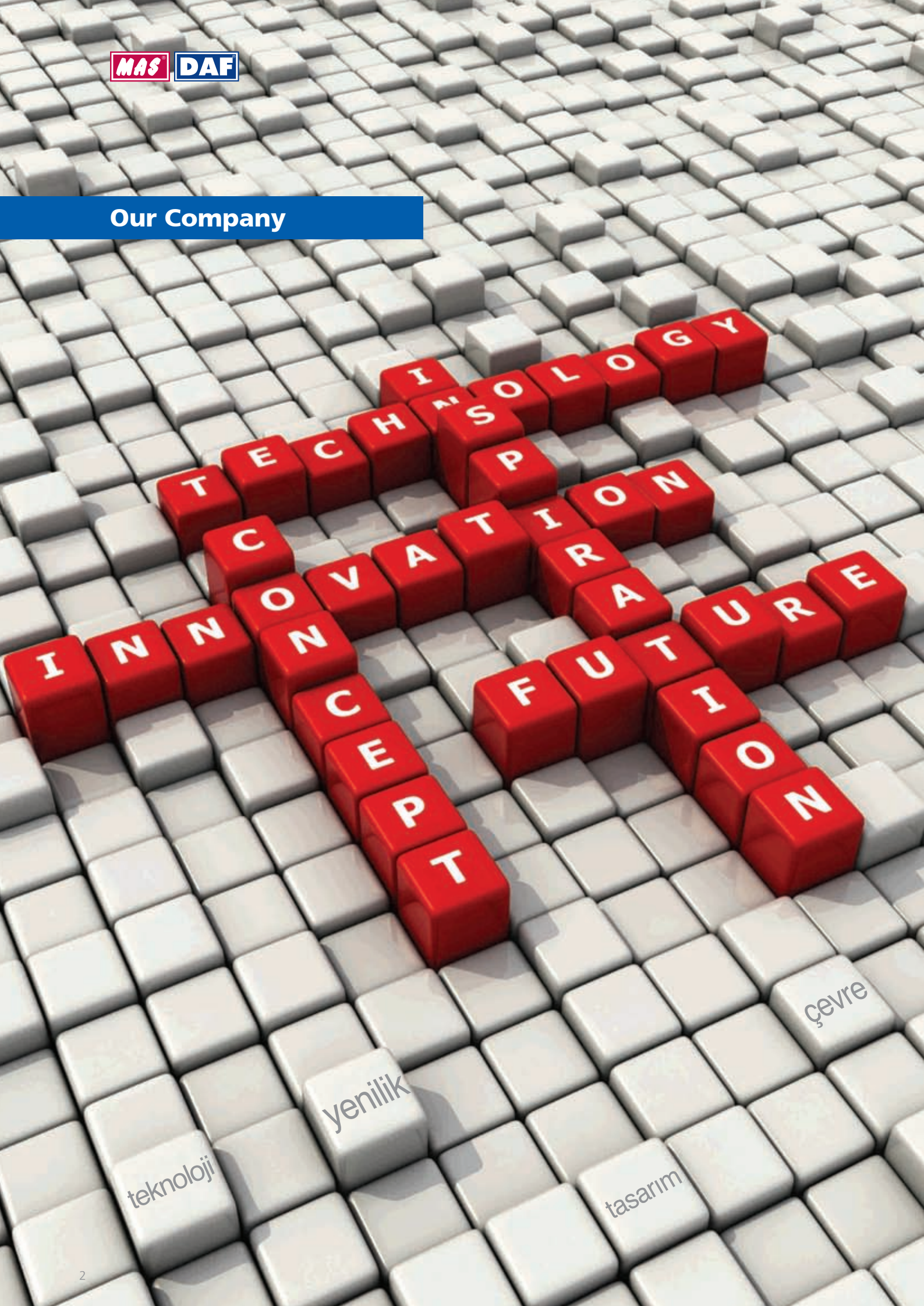
Our Company


TECHNOLOGY
INSPIRATION
INNOVATION
CONCEPT
FUTURE
teknoloji
yenilik
tasarım
çevre

MAS - DAF Makine Sanayi A.Ş has been a manufacturer of a full range of residential and commercial pumps since 1977. Since our founding we have dedicated our activities towards the manufacture of products that provide efficient utilizations of water and energy, as well as focusing our efforts on searching for ways to conserve the resources needed to sustain life.

Now exporting to more than 50 countries across the face of the globe, we of the MAS Group have continued to hold fast to our principle of continual self-development. Determined to increase our competitive strengths on domestic and foreign markets, in 2006 the company put its Düzce factory into full capacity service. The factory has been built on 40,000 m² of land with production facilities covering an area of 20,000 m². Through the years, our company has been propelled into a leadership posiiton in the pump sector thanks to the production techniques the Group has developed, our machinery, R&D unit, professional staff, and our continual provision of top quality quality and modern services.

Our basic philosophy is to ensure that all of our actions are conducted in strict conformance with legal and business ethics, that our customers are informed and their rights always protected, that we provide the best possible quality of services and technology, and that we establish a system of human resources that meets the satisfaction of both our own personnel and our customers.

45,000 pumps/year MAS
28,000 pumps/year DAF
84,000 pressure tanks /year DAF
14,000 pressure tank/year DAF

Backed by 33 years of developed technology and high quality of service, we stride forward into the future determined never to make any concessions in anything we do ...

R&D activities

R&D activities

Not only has the MAS Group achieved an important place on world markets, the MAS Group is also one of the few companies in the pump sector that is noted for the new models and designs it has developed. Our R&D department, which includes 16 technical personnel--all experts in their areas of specialty, three special CNC data processing centers assigned to these experts, as well as testing stations equipped with most modern technological devices and computers, continuously carries out comprehensive efforts that range from design to prototype production.

The MAS GROUP values the welfare of our staff and we try to create an environment where all our personnel are able to work efficiently with mutual respect and trust. We believe in team efforts and realize that the advancement of the MAS Group depends on the advancement of all the individual members of our team. We know that advancements in technology, research, and service provisions rely on the smooth collaboration of all members of our staff.

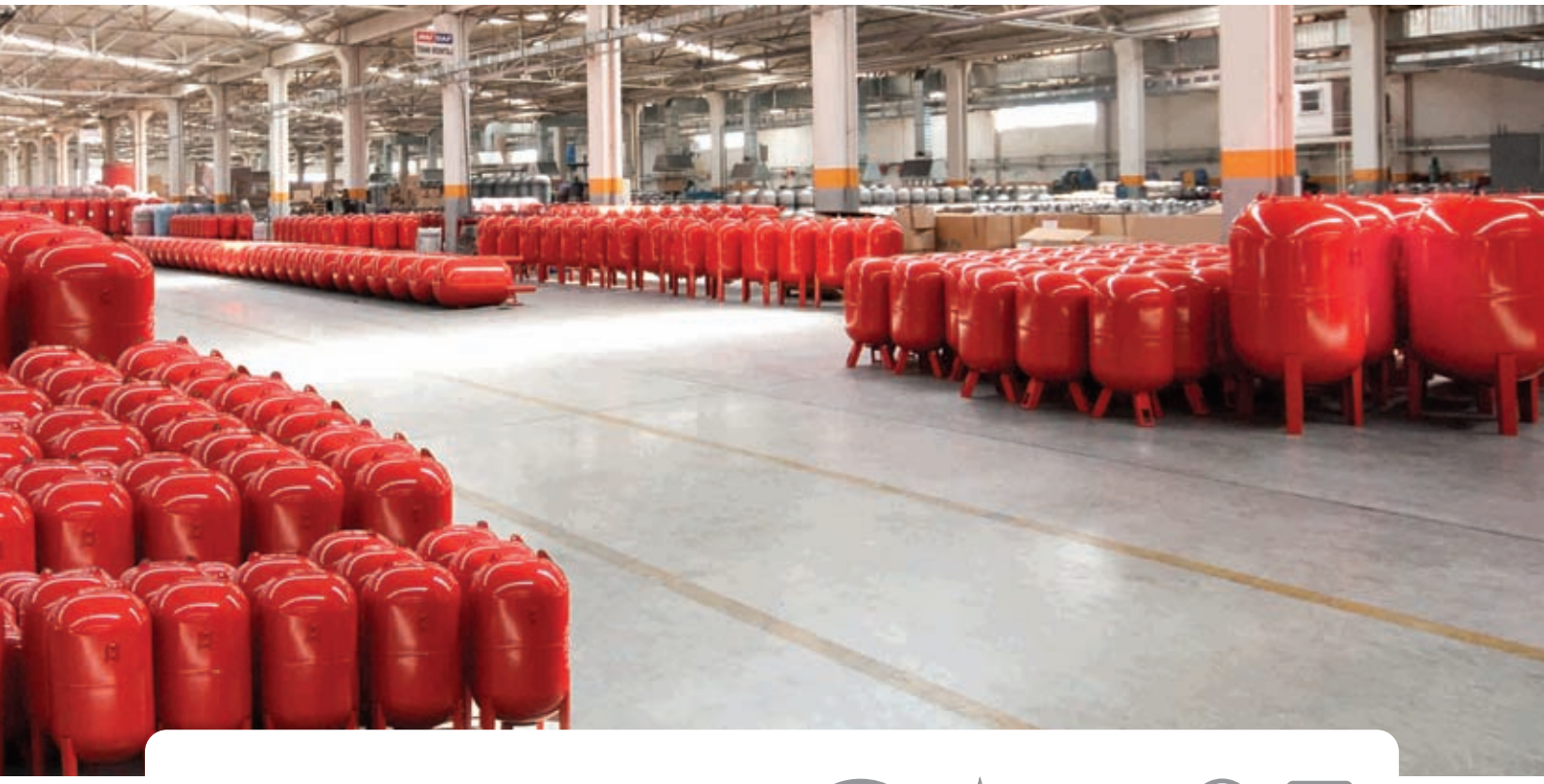
Devoted to perfection

As the MAS GROUP we have been dedicated to offering our services to those industries that value and need high performance.

- Oil and fuel industry
- Chemical processing industry
- Water resources
- Power plants
- General industry

Never-ending search to enhance "economy and safety"

Quality concepts



Global competition has swept away any possible notions of complacency in traditional manufacture. With the appearance of more and more alternatives in the marketplace, the customer becomes increasingly demanding as it searches for the best possible quality levels in manufacture and service provisions.

We are well aware that to maintain and broaden our customer base we have to closely monitor and advance the quality of our products and our services. We have factored in systems to help us carry out our monitoring processes. Good products depend on high quality raw materials, so all materials used in production are evaluated as soon as they arrive at the factory. We also monitor the materials throughout the production processes. Any defects noted in materials during different stages of production arising from their individual properties, or from the production process itself, are closely monitored. Close and sustained monitoring of materials and production throughout all stages allow us to provide our customers with products that meet their demands.

The quality criteria that are required in production processes are continuously monitored by use of the Quality Control module, allowing us to trace conditions with the potential of giving rise to problems, which can then be resolved. In this way it is possible to minimize losses and process costs. Quality control procedures are also carried out following critical operations. By doing so, we ensure that our products meet the required quality standards.

"You may be sure that our products meet the required quality standards"

After sales services

“ We offer high efficiency and technological superiority supported by excellent service…”

As the Mas Group Family we give great value to the special requests and needs of our esteemed customers. The satisfaction of our customers is just as important as the quality of service offered.

All of our products carry a full, 2-year company guarantee, while spare parts are guaranteed for 10 years from the date of manufacture. In this way we ensure the reliability of our products and the continuation of our quality provisions.

Extensive service network

Whenever and wherever you may be, the technical support service of the Mas Group is ready to help you with what you need. The fully trained and highly knowledgeable personnel of the technical service department are devoted to the provision of high quality service at all times and are always ready to offer creative solutions to any problem. The staff of our technical service are fully aware of problems that might arise and are ready as a group to provide all of the assistance required.

The highly qualified and authorized engineers and technical personnel of our extensive service network are always at the side of our customers to answer their questions, to evaluate the problems they have and to provide them with reliable solutions.

The maintenance programs aimed at increasing product performance and life are also part of the technical support services.

The sectors for which we provide products with our 33-year-long experience:

Water Transfer

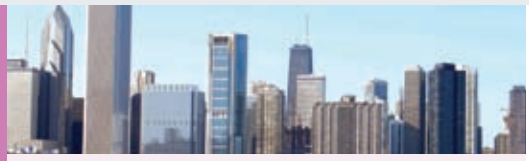
We provide our customers with single and multistage pumps at water distribution centers, industrial and social installations and water pumping stations.

Heating and Cooling Systems

We provide circulation pumps used in central heating, hot and cold water and air conditioning systems. The circulation pumps are compatible with electronic control units, heating and air conditioning systems.

Industrial Processes

We provide single and multistage pumps to be used to transfer industrial fluids under pressure, to perform hot and cold water and thermal fluid transfers, to carry out chemical processes and in reverse osmosis systems.



Residences and Offices

The clean water supplies for residences and offices are provided by booster pumps and pressure tanks, by units with frequency converters and single and multistage pumps.

Maritime Services

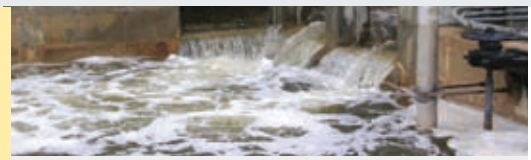
For the marine sector we have such products as the norm centrifugal pumps made of stainless steel and bronze, in-line type pumps and horizontal and vertical multistage pumps to be utilized on marine vessels.

Agriculture and Irrigation

For garden and field irrigation and particularly for places where there is no electricity we provide diesel pumps for provision of water.

Fire Fighting

Our line of pumps used to fight fires includes in-line type, end suction and separable body double suction centrifugal pumps. The fire pumps are manufactured according to NFPA 20 and UL standards.



Sewage Pumps

We provide self priming and sump type pumps that can be used to transfer sewage, underground and septic water.

Sectors that utilize our products

	Water Transfer	Heating, Cooling Systems	Industrial Processes	Residences and Offices	Marine Utilizations	Agriculture & Irrigation	Fire Fighting	Waste Water
Norm centrifugal pumps	●	●	●	●	●	●		
Split Case Double Suction Centrifugal Pumps	●		●		●		●	
Monoblock centrifugal pumps	●	●	●	●	●			
In-line centrifugal pumps	●	●	●	●	●			
Uncooled thermal oil pumps			●					
UL or NFPA 20 compatible fire pumps							●	
Twin head mounted in-line pumps		●	●	●				
Self Priming Centrifugal Pumps	●	●	●	●				
Chemical processing pumps			●					
Vertical high pressure multistage centrifugal pumps	●	●	●	●	●			
Horizontal High Pressure Multistage Centrifugal Pump	●	●	●	●				
Self-Priming centrifugal pumps			●					●
Vertical shaft sump pumps			●					●
Chemical vertical shaft submersible pump			●					●
Booster pumps			●					●
Wet rotor circulation pumps				●	●			
Frequency Control panels		●		●				
Interchangeable Membrane Closed Pressure Tanks	●	●	●	●	●			
		●	●	●	●		●	

DİKKAT

NM series

End Suction Centrifugal Pumps

General Specifications

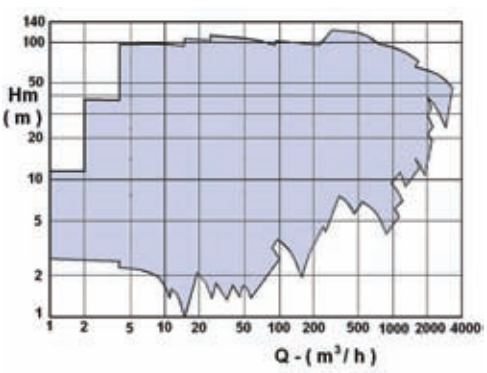
Flow Rate	: 5 ... 3500 m^3/h
Head	: 4 ... 105 m
Operation Pressure	: 10 Bar
Operation Temperature	: -20 ... 110°C
Motor Speed Range	: 1000 ... 3600 d/d
Suction Flange	: DN 50 ... DN 400
Discharge Flange	: DN 32 ... DN 350

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.



Contact our company for customized options

NMM series

Mono-block Centrifugal Pumps

General Specifications

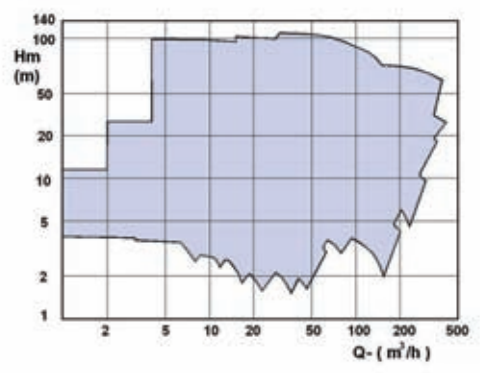
Flow Rate	: 5 ... 450 m^3/h
Head	: 4 ... 100 m
Operation Pressure	: 10 Bar
Operation Temperature	: -10…110°C
Motor Speed Range	: 1000 ... 3600 d/d
Suction flange	: DN 50 ... DN 200 (PN 16) (DIN 2535)
Discharge Flange	: DN 32 ... DN 150 (PN 16) (DIN 2535)

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.



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INM ve INL series

In-Line Centrifugal Pumps

General Specifications

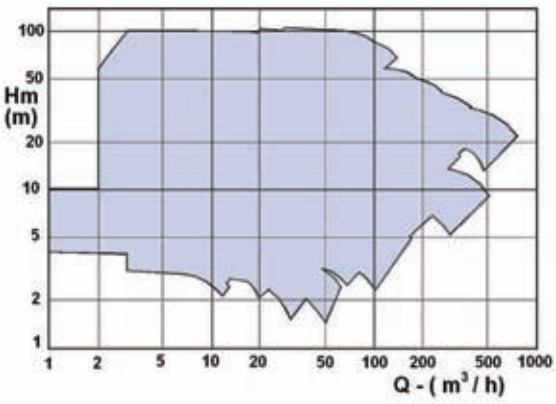
Flow Rate	: 2 ... 500 m³/h
Head	: 2 ... 100 m
Operation Pressure	: 10 Bar
Motor Speed Range	: 900 - 3600 d/d
Suction Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)
Discharge Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)

Fields of Applications

- Water supply and pumping stations.
- Irrigation, sprinkling, drainage processes.
- Tank systems.
- Hot-cold water circulation in cooling systems.
- Pumping of condensed water.
- Swimming pool water circulation.
- Industrial and social installations.
- Fresh water and sea water pumping in ships.

Design

- Single stage in-line type centrifugal pumps are produced with standard motors and mechanical seal.
- Pump flanges are designed in PN 16 pressure category compatible with DIN 2533. The suction and discharge flanges are identical and are on the same axis. Both flanges are equipped with pressure gage tapings.
- Single entry, closed impeller is equipped with rear rings to balance thrust and is dynamically balanced.
- Motor is connected to the pump by an adaptor and a flange.
- Motor shaft is joined to 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.
- Pump shaft, motor and other parts can be removed without replacing the suction and discharge flanges and the pump volute. Thus, assembly and maintenance procedures are carried out very easily.
- Standard asynchronous motor is used to activate pump.
- In NMM pumps shaft leakage is prevented by a mechanical seal. All radial and thrust forces are supported by the motor bearing.



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INM - D series

Twin Head Mounted In-line Pumps

General Specifications

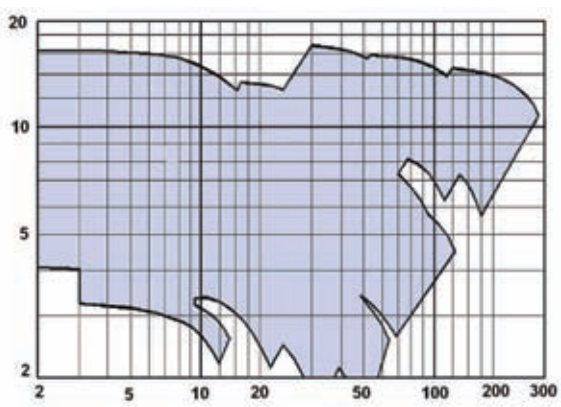
Flow Rate	: 2 ... 280 m³/h
Head	: 2 ... 16 m
Operation Pressure	: 10 Bar
Operation Temperature	: -10 ... 110°C
Motor Speed Range	: 900 ... 3600 d/d
Suction Flange	: DN 40 ... DN 150 (DIN 2533)
Discharge Flange	: DN 40 ... DN 150 (DIN 2533)

Fields of Applications

- HVAC systems
- Industrial plants
- Swimming pools Horizontal High Pressure Multistage Centrifugal Pumps
- Geothermal plants

Design

- INM - D series twin head mounted, in - line type centrifugal pumps.
- Formed by joining two standard INM series pumps with collector parts.
- Special design composed of a common collector and integrated check valves at each pump exit that provides for independent operation.
- In case of failure of the pump the second pump goes into operation, so the process does not come to a halt.
- Single suction, closed type impeller is equipped with rear rings to balance thrust and is dynamically balanced.
- Maintenance - repair processes are very easy due to the back pull-out design.
- Standard asynchronous motors are used to set pump in motion.
- The pump shaft is coupled with the motor shaft by means of a special clamp. This coupling makes it easy to dismantle the pump without removing the motor.



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SPLT ve SPLT.M series

Split Case Double Suction Centrifugal Pumps

General Specifications

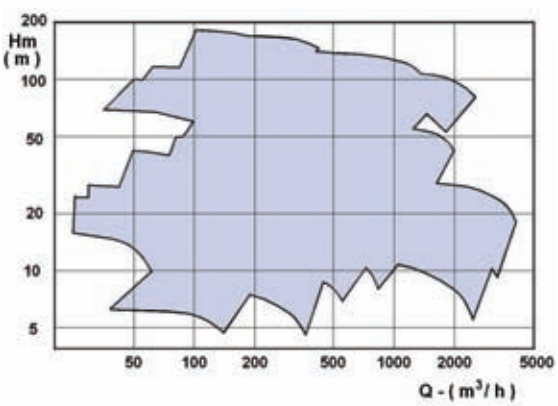
Flow Rate	: 30 - 4000 m^3/h
Head	: 10 - 160 m
Operation Pressure	: 16 - 20 Bar
Operation Temperature	: - 10 ... 110°C
Motor Speed Range	: 960 ... 3500 d/d
Suction Flange	: DN 80 ... DN 500
Discharge Flange	: DN 65 ... DN 500

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.



Contact our company for customized options

SPLT-V series

Vertical Split Case Double Suction Centrifugal Pumps

General Specifications

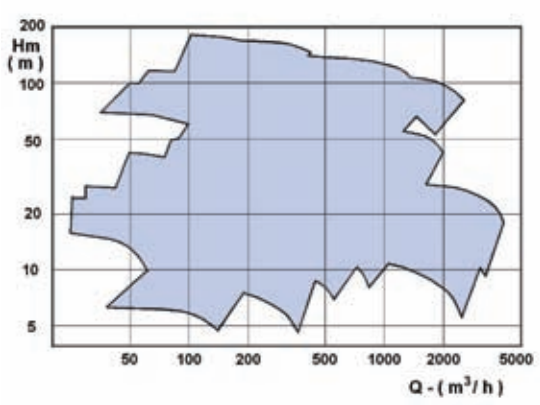
Flow Rate	: 30 - 3500 m^3/h
Head	: 10 - 120 m
Operation Pressure	: 16 - 20 Bar
Operation Temperature	: - 10 ... 110°C
Motor Speed Range	: 960 ... 3500 d/d
Suction Flange	: DN 80 ... DN 500
Discharge Flange	: DN 65 ... DN 500

Fields of Applications

- Maritime application.
- Water supply and booster stations.
- Industrial washing.
- Fire fighting systems.
- 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.



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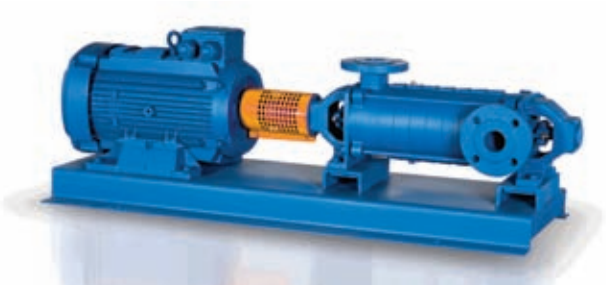
KMU series

Horizontal High Pressure Multistage Centrifugal Pumps



General Specifications

Flow Rate	: 1..16 m^3/h
Head	: 10 ... 280 m
Operation Pressure	: 25 Bar
Operation Temperature	: -10 ... 110°C
Stage Number	: 3 ... 18
Motor Speed Range	: 1400 ... 3600 d/d
Suction Flange	: DN 25 ... DN 50 (PN 40)
Discharge Flange	: DN 25 ... DN 50 (PN 40)

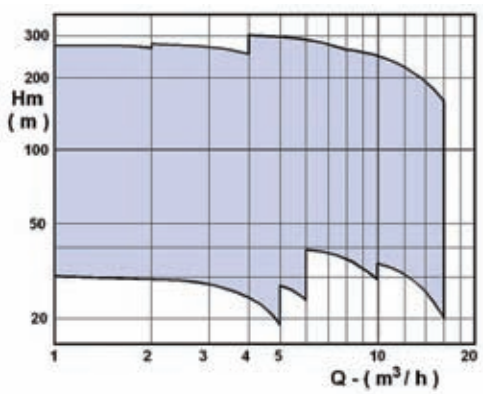
Fields of Applications

In pumping of pure or relatively clean liquids in:

- Boilers and condensation process.
- Health and hygienic processes.
- Industrial applications.
- Shipyards, mines and power installations, filtration units.
- Drinking water supply and distribution centers.
- Water supply in high buildings.
- Water treatment systems.
- Industrial installations for provision of process water.

Design

- KMU series, multistage, horizontal centrifugal pumps.
- Single entry enclosed type impeller is dynamically balanced
- The pump and the motor are connected by means of a flexible coupling on a common base plate. The flanges are compatible with DIN 2535.
- Pump shaft is designed for easy maintenance and repair with problem-free dismantling.
- When viewed from the motor end, the suction flange is opposite the motor and on the left, whereas the discharge flange is adjacent to and above the motor.
- Suction and discharge ports can be fitted in different directions and 90° apart.



Contact our company for customized options

KMU - V series

Vertical High Pressure Multistage Centrifugal Pumps

General Specifications

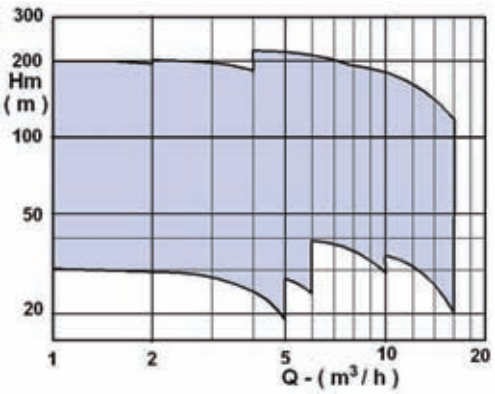
Flow Rate	: 1 ... 16 m^3/h
Head	: 30 ... 200 m
Operation Pressure	: 25 Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 3 ... 14
Motor Speed Range	: 2900 ... 3600 d/d
Suction Flange	: DN 25 ... DN 50 (PN 40)
Discharge Flange	: DN 25 ... DN 50 (PN 40)

Fields of Applications

- Drinking water supply and distribution centers.
- Booster sets in high rise buildings.
- Water treatment systems.
- Industrial installations for provision of process water.
- Boilers and condensation process.
- Health and hygienic processes.
- Industrial installations.
- Shipyards, mineral mines, power installations, and filtration units.
- Irrigation.

Design

- KMU - V series pumps are vertical, multistage, centrifugal pumps.
- Impeller is single entry, enclosed and is dynamically balanced.
- KMU - V series pumps are available in 4 different sizes.
- Pump and motor shafts are connected with flexible coupling.
- In standard production the discharge flange is near the top and the suction flange near the bottom. When pump is viewed from the top motor area the pump rotation is in clockwise direction.
- Suction and discharge ports can be rotated by an angle of 90°.



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KMB series

Horizontal High Pressure Multistage Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 100 m^3/h
Head	: 20 ... 300 m
Operation Pressure	: 40 Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3500 d/d
Suction Flange	: DN 40 ... DN 80 (PN 40)
Discharge Flange	: DN 32 ... DN 65 (PN 40)

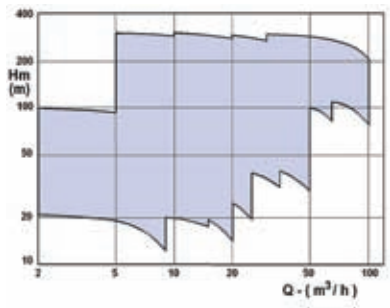
Fields of Applications

In pumping of pure or relatively clean liquids in:

- Boilers and condensation processes.
- Drinking water supply and pumping centers.
- Booster sets in high rise buildings and industry.
- Industrial installations for provision of process water.
- Water treatment systems.
- Washing systems.
- Fire fighting systems
- Health and hygienic processes.
- Industrial installations.
- Fresh water pumping in ships.

Design

- The KMB group is made up of high pressure, closed radial impeller, horizontal shaft pumps.
- In standard manufacture, when viewed from the motor end the suction port is further to the left and the discharge port is at the motor end and on top. Pump may be custom ordered so that the suction port is at the motor end of the pump. All suction and discharge flanges are compatible with DIN 2535. Suction and discharge flanges can be rotated to the left, right and up by 90° intervals.
- Pump impeller, which is of closed and fully radial type, has been balanced dynamically.
- Stainless steel and carefully ground shafts are used in KMB pumps. Pump shaft is of the same diameter all along its length. Dismantling or assembly of the pump is possible from either direction. Since there is no element on the shaft that has to be turned in a particular direction (turnscrew, etc.) the same shaft can be used for turning right or left.
- High temperature resistant bearings (2RS type) are used on both sides of the pump. These have been oiled for life and need no maintenance. Deflectors mounted in front of the bearings prevent water leakage.



Contact our company for customized options

KMB - V series

Vertical High Pressure Multistage Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 100 m^3/h
Head	: 30 ... 220 m
Operation Pressure	: 40 Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3600 d/d
Suction Flange	: DN 40 ... DN 80 (PN 40)
Discharge Flange	: DN 32 ... DN 65 (PN 40)

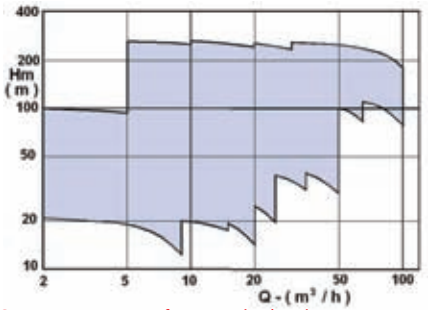
Fields of Applications

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 processes.
- Health and hygienic processes.
- All kinds of industrial applications.
- Water pumping systems.
- Marine, metallurgy, energy sectors.
- Irrigation systems.

Design

- KMB - V series pumps are multi-stage pumps built on a vertical axis with components that can be dismantled in steps.
- Pump impeller is of single entry and enclosed type and is dynamically balanced
- The thrust is balanced by means of a back wear ring and balance disc.
- KMB - V series consists of 5 pump types.
- Suction and discharge flanges are compatible with DIN 2535.
- Discharge flange is above the motor and suction flange is below.
- Suction and discharge flanges can be rotated to an angle of 90˚.



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OMK series

Horizontal High Pressure Multistage Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 220 m^3/h
Head	: 30 ... 400 m
Operation Pressure	: 40 Bar
Operation Temperature	: -10 ... 140°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3500 d/d
Suction Flange	: DN 50 ... DN 125 (PN 40)
Discharge Flange	: DN 32 ... DN 80 (PN 40)

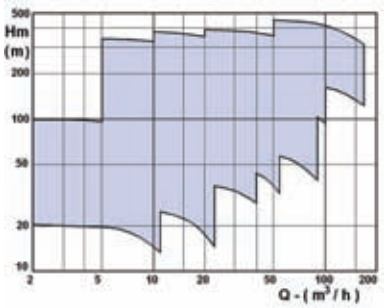
Fields of Applications

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 have a horizontal shaft, with a radial body that can be dismantled in steps and of multi-stages
- Pump impellers are of single entry and enclosed type and are dynamically balanced. The impeller is situated between bearings on either side.
- 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.
- OMK series consists of 5 types which are 32, 40, 50, 65 and 80. Stage number varies between 2 to 14.
- The pump and the motor are connected by means of a flexible coupling on a common base plate. Suction and discharge flanges are PN40 compatible with 2535. 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 upwards and suction flange at the dead end facing towards right and rotating clockwise.
- Alternative assembly is possible upon request.



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OMK - V series

Vertical High Pressure Multistage Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 220 m^3/h
Head	: 30 ... 400 m
Operation Pressure	: 40 Bar
Operation Temperature	: -10 ... 140°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3600 d/d
Suction Flange	: DN 50 ... DN 125 (PN 40)
Discharge Flange	: DN 32 ... DN 80 (PN 40)

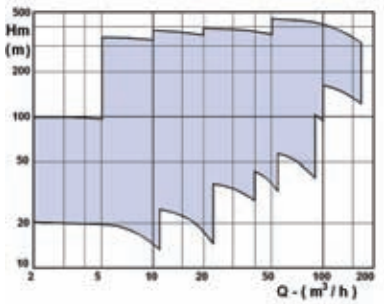
Fields of Applications

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.
- Marine, metallurgy, energy sectors.
- Irrigation systems.

Design

- OMK - V series pumps have horizontal axis, have separable body and are multistage centrifugal pumps that can be dismantled in stages.
- Pump impellers are of single entry and enclosed type form and are dynamically balanced.
- OMK - V pumps have bearing that support radial and axial thrust forces. On the bottom there is a water-lubricated sliding gear.
- Thrust (axial force) is balanced by balance holes.
- Ball bearings compensate for any remaining unbalanced axial force.
- Back wear rings can be changed if desired.
- OMK-V series consists of 5 types which are 32, 40, 50, 65 and 80.
- Pump and motor are connected by means of a common adapter and a flexible coupling.
- In standard assembly, the discharge port is at the motor end and on top, whereas the suction port at the bottom. Pump rotation is clockwise when viewed from above at the motor end.



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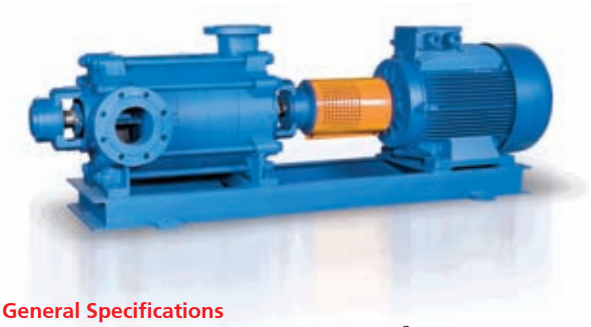
KME series

Horizontal High Pressure Multistage Centrifugal Pumps



General Specifications

Flow Rate	:	25 ... 800 m^3/h
Head	:	25 ... 500 m
Operation Pressure	:	40 Bar
Stage Number	:	2 ... 15
Motor Speed Range	:	1450 ... 2200 d/d
Suction Flange	:	DN 100 ... DN 250 (PN 16)
Discharge Flange	:	DN 80 ... DN 200 (PN 40)

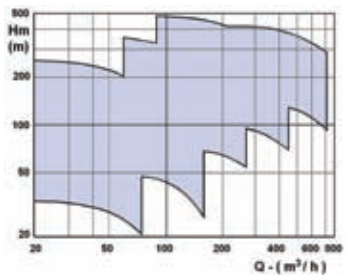
Fields of Applications

In pumping of pure or relatively clean liquids in:

- Pumping stations.
- Water supply in high buildings.
- Water treatment systems.
- Industrial washing processes.
- Fire fighting systems.
- Boilers and condensation process.
- Health and hygienic processes.
- Industrial and public applications.
- Water distribution systems.
- Marine, metallurgy, energy sectors.
- Irrigation systems.

Design

- KME series pumps have horizontal axis, radial separable body and are multistage centrifugal pumps that can be dismantled in stages.
- Closed type impellers are situated between bearings and are balanced dynamically.
- Impeller balance is achieved with back wear rings and balance holes. A balance disc or drum can be used for very high pressures.
- KME series includes 5 types depending on stage number, rotation speed, maximum flow rate attained and vary between 2-15 stages.
- In standard manufacture, the pump and the motor are connected by means of a flexible coupling on a single base plate. In standard assembly the discharge port is located at the motor end with the flange on top and the suction port is at the other side with flange oriented towards the left. Alternative Designs can be obtained upon request.
- Suction and discharge flanges can be situated on the left, right and on the top. On special order, the suction flange can be positioned at the motor end. In that case motor rotation would be in a counter-clockwise direction.



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KME-V series

Vertical High Pressure Multistage Centrifugal Pumps

General Specifications

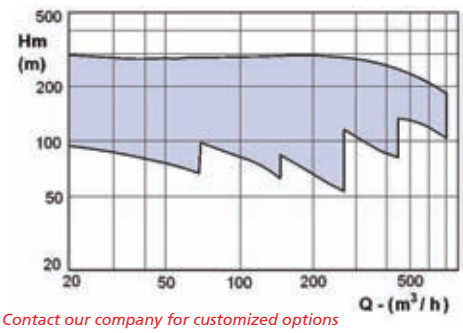
Flow Rate	:	20 - 700 m^3/h
Head	:	30 - 500 m
Operation Pressure	:	40 Bar
Stage Number	:	2 - 15
Motor Speed Range	:	1450 -1750 d/d KME 80 -3600 d/d
Suction Flange	:	DN 100...DN 250 (PN 16)
Discharge Flange	:	DN 80.....DN 200 (PN 40)

Fields of Applications

- Waterworks.
- High buildings for pumping water.
- Industrial installations for pumping water.
- Water treatment systems.
- Washing processes.
- Fire fighting systems.
- Boilers and condensation process.
- Boiler, bottle, barrel, etc. and washing processes.
- Health and hygienic processes.
- Industrial installations.
- Clean water pumping for ships.

Design

- The KME-V series consists of vertical shaft, vertically staged, closed radial impeller pumps.
- Suction and discharge flanges are compatible with DIN 2535. Suction and discharge mouths can be rotated to the right or left by 90°.
- Pump impellers are fully centrifugal, doubly inclined, winged (Francis) and closed type. Impellers have been dynamically balanced. Thrust is balanced to the rear by back wear rings up to certain stage numbers. A balance disc or drum is used for high pressures.
- KME-V pumps are made of stainless steel and have carefully ground base plates. The center of the pump shaft is thick and the diameters of the two ends are narrower, which ensures that the pump can easily be removed or placed from either end.
- The discharge end of the pump includes a double row of ball bearings (3300 C3 series) contacting angularly. Ball bearings are lubricated by grease. Deflectors in front of the bearings prevent any water leakage.



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KMK series

High Pressure Opposed Impeller Multistage Pumps

General Specifications

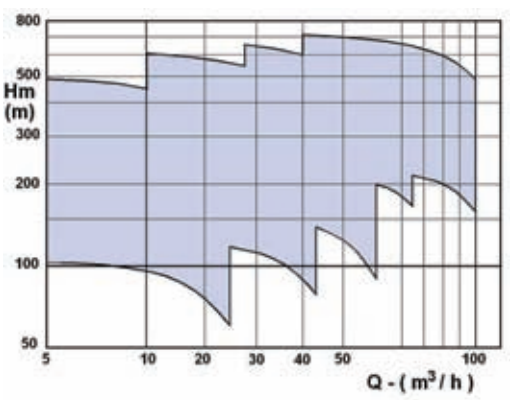
Flow Rate	: 5 ... 100 m^3/h
Head	: 100 ... 700 m
Operation Pressure	: 40 (64) Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 6 ... 18
Motor Speed Range	: 2900 ... 3600 d/d
Suction Flange	: DN 40 ... DN 80
Discharge Flange	: DN 32 ... DN 65

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.



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DSV series

Vertical Stainless Steel Pumps

General Specifications

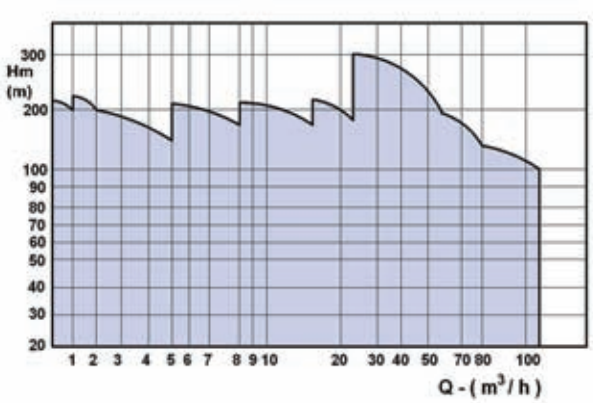
Flow Rate	: 0-110 m^3/h
Head	: 20-300 m
Operation Pressure	: 17 Bar
Motor Speed Range	: 2900-3600 d/d
Suction Flange	: DN 25 - DN100
Discharge Flange	: DN 25 - DN100

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.



CPM series

Chemical Process Pumps

General Specifications

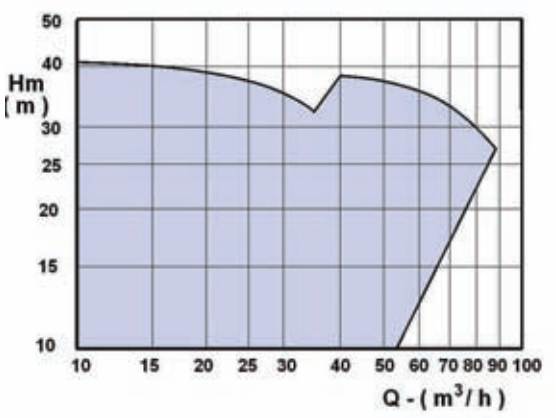
Flow Rate	: 1 - 80 m^3/h
Head	: 0 - 40 m
Operation Pressure	: 16 Bar
Motor Speed Range	: 1000 - 3600 d/d
Suction Flange	: DN 50 - DN 65
Discharge Flange	: DN 32 - DN 50

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.



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KYP series

Uncooled thermal oil pumps

General Specifications

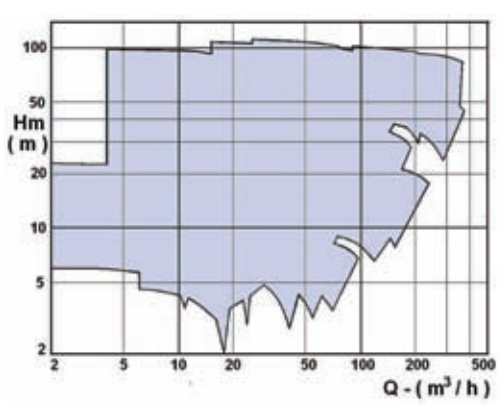
Flow Rate	: 10 ... 400 m^3/h
Head	: 5 - 100 m
Operation Pressure	: 16 Bar
Operation Temperature	: 100 ... 350°C
Motor Speed Range	: 1500 - 3000 d/d
Suction Flange	: DN 40 ... DN 125
Discharge Flange	: DN 32 ... DN 100

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.



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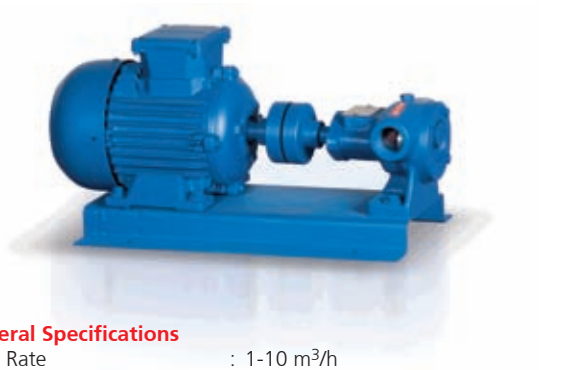
DP series

Gear Transfer Pumps



General Specifications

Flow Rate	: 1-10 m^3/h
Head	: 30 .. 90 m
Operation Pressure	: 16 Bar
Operation Temperature	: -20 … 140 °C
Motor Speed Range	: 1000 … 1500 d/d

Fields of Applications

- Pumping high viscosity pure liquids.
- Diesel oil and fuel oil installations.
- Transportation of viscous liquids.

Design

- The pump consists of two telescopic gears. The system is so simple that the probability of breakdown is very low.
- The gears ensure that all pressure remains below the limit of the system.
- Since the gears normally regulate themselves it is not necessary to regulate the pressure at the discharge port of the pump by means of a valve.
- The pump is made of leak-free with special seals.
- The pumps have high performance, safe operation and easy maintenance.

Type	Motor		Connection		Capacity	
	HP	d/d	Suction	Discharge	m^3/h	Hm
DP 1030	3/4	1400	1"	1"	1	30
DP 1530	1	1400	1"	1"	1.5	30
DP 3030	2	1400	1"	1"	3	30
DP 3060	3	1400	1"	1"	3	60
DP 6030	3	1400	11/2"	11/2"	6	30
DP 6060	4	1400	11/2"	11/2"	6	60
DP 6090	5.5	1400	11/2"	11/2"	6	90
DP 9040	4	1400	2"	2"	10	40
DP -130	1	900	1"	1"	1	30
DP -230	2	900	1"	1"	2	30
DP -430	3	900	11/2"	11/2"	4	30
DP -640	4	900	2"	2"	6	40

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UKM - S series

Self-Priming Centrifugal Pumps

General Specifications

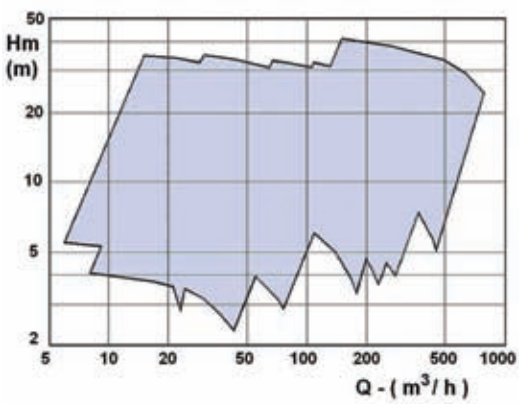
Capacity	: 10 - 800 m^3/h
Total Head	: 4 ... 40 m
Operation Pressure	: 6 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 650 ... 2900 d/d
Suction Flange	: DN 50 ... DN 250 (2"..10")
Discharge Flange	: DN 50 ... DN 250 (2"..10")

Fields of Applications

- Pumping of residential and industrial crude sewage liquids.
- Sewage treatment installations.
- Pumping of liquids containing sludge and solid particles..
- Pumping of waste water from factories.
- For use in all kinds of drainage and discharge systems.

Design

- UKM - S series pumps are self-priming centrifugal pumps with upper suction flap.
- Since they are self-priming pumps it is only necessary to place the end of the suction pipe into the liquid to be pumped.
- A flexible coupling or a V-belt pulley can be used to start up the pump directly in the case of a Diesel or an electric motor.
- UKM - S series consists of 6 different types: 2", 3", 4", 6", 8", 10".
- The impellers are two-vane, open type and can pump up to 76 mm (3") solid particles depending on the size of the pump.
- The suction cover can be removed from the front, making it easy to reach the impeller. Any obstruction can be removed without touching the suction and discharge parts.
- The flap connected to the suction flange has been specially designed so that is possible to clean or to remove and install the flap without touching the suction system.
- The roller bearing (bearing bushing) is supported by the pump body. There can be no problem in speed up.
- UKM series pumps are very easy to use because they are of self-priming type. Once the suction pipe is placed into the liquid the pump starts to function in one minute maximum depending on the suction height.



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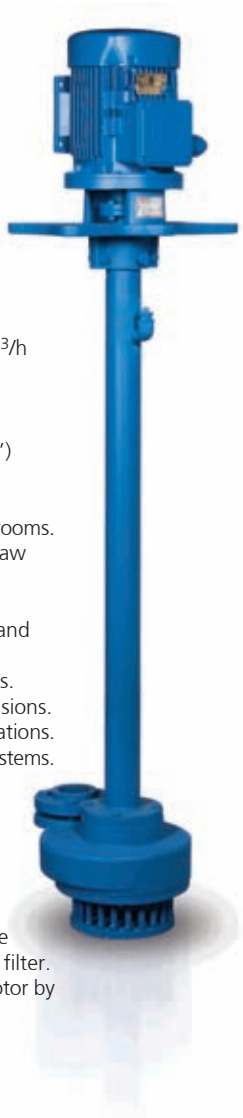
PS/PSH series

Chemical Vertical Shaft Submersible Pump



General Specifications

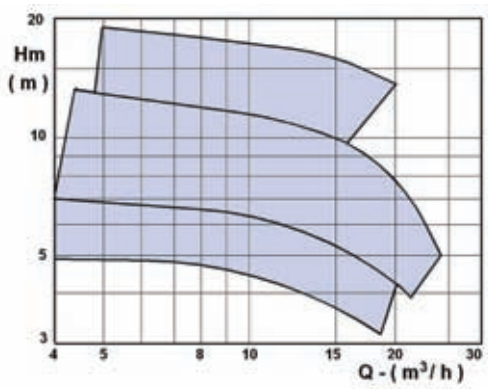
Flow Rate	: 6 ... 26 m^3/h
Head	: 4 ... 19 m
Operation Pressure	: 2.5 Bar
Motor Speed	: 1450 d/d
Discharge flange	: DN 50 (2")

Fields of Applications

- Drainage of dirty water pits in furnace rooms.
- Pumping of residential and industrial raw sewage liquids.
- Drainage in sewage treatment plants.
- Pumping of liquids containing sludge and solid particle.
- Pumping of waste water from factories.
- Pumping of viscous liquids and suspensions.
- Pumping of liquid wastes of dye installations.
- In all kinds of drainage and discharge systems.
- Paper and cellulose industries.

Design

- PS/PSH series pumps are vertical shaft pumps that operate by means of a special bearing system.
- The suction flange and the impeller are within the outlet and are faced with a filter.
- The pump shaft is connected to the motor by means of flexible coupling.



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PSP series

Chemical Waste Sump Pumps

General Specifications

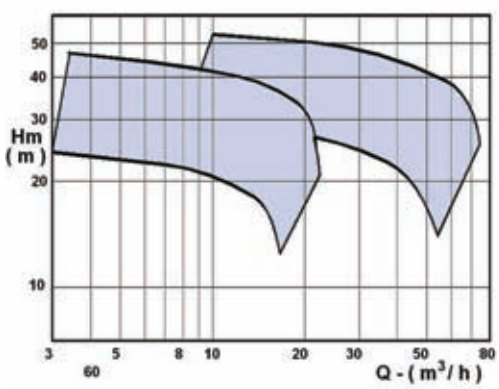
Flow Rate	: 3 ... 70 m^3/h
Head	: 15 - 50 m
Operation Pressure	: 6 Bar
Motor Speed Range	: 1000 ... 3600 d/d
Discharge Flange	: DN 32 - DN 80

Fields of Applications

- Fibrous sewage discharge.
- Industrial plants.
- Tank evacuation.
- Corrosive liquids.
- Evacuation of bilge water in ships.
- Chemical Slurries.

Design

- Single stage, vertical shaft processing pumps with open or vortex type impellers
- The open impellers are connected to the shaft by a wedge.
- The impellers are balanced according to ISO G 6.3. The back vanes of the impeller reduce the axial thrust and prevent the intake of solid particles.
- The cranks are designed so as to maximize hydraulic performance. The gear connection with the discharge pipe enables the moving of the discharge pipe without having to remove the pump from the well.



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INM Self Priming

Pumps with Self-Priming Unit

General Specifications

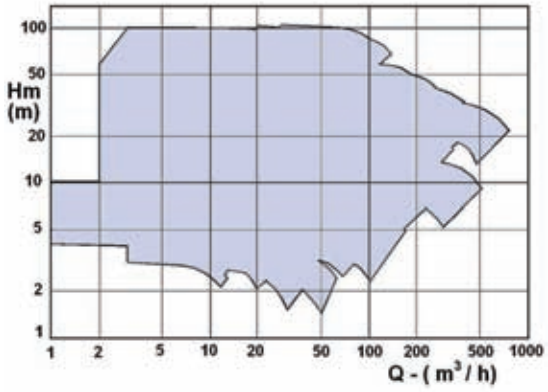
Flow Rate	: 2 ... 500 m^3/h
Head	: 2 ... 100 m
Operation Pressure	: 10 Bar
Motor Speed Range	: 900 - 3600 d/d
Suction Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)
Discharge Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)

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.



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UL YNM 525-825-1531

End Suction Centrifugal Fire Fighting Pumps

General Specifications

Flow Rate	: 50 - 1250 gpm
	: 10 - 280 m³/h
Head	: 80-155 psi
	: 55 - 110 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0...60 °C
Motor Speed Range	: 2950 d/d
Suction Flange	: DN 80 ... DN 200
Discharge Flange	: DN 50 ... DN 150

Fields of Applications

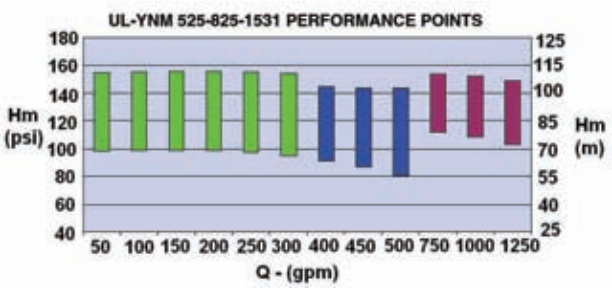
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

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.



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YPH series

In-line Type Centrifugal Fire Pumps

General Specifications

Flow Rate	: 5 ... 370 m³/h
Head	: 35 - 105 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 2900 ... 3600 d/d
Suction Flange	: DN 80 ... DN 150
Discharge Flange	: DN 65 ... DN 100

Fields of Applications

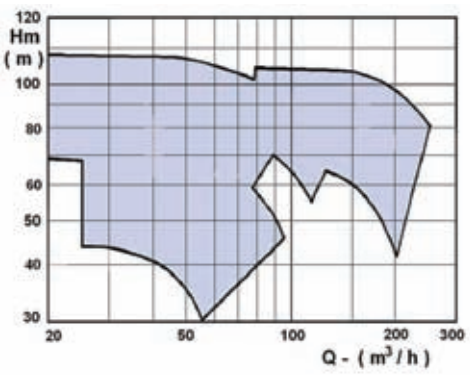
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

Utilizations

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

Design

- These are single stage, vertical shaft in-line type centrifugal pumps.
- The single suction, closed type impeller is dynamically balanced against thrust (axial force) by use of balance holes and back wear rings.
- The pump and the motor are connected by means of an adapter using a special rigid coupling.
- Maintenance and repair are easily carried out due to the feature that the pump can be detached from the plumbing works with its body remaining connected to the bed.
- In accordance with the NFPA fire standard the shaft non-leakage is provided by soft packing seals.
- The pump has been especially designed for part interchangeability, thus making spare part acquisition easy and fast.



Contact our company for customized options

YPSP series

Horizontal Split Case Double Suction Centrifugal Fire Pumps

General Specifications

Flow Rate	: 50 ... 2500 m³/h
Head	: 20 - 180 m
Operation Pressure	: 16 - 20 Bar
Motor Speed Range	: 1450 - 3600 d/d
Suction Flange	: DN 80 ... DN 250
Discharge Flange	: DN 65 ... DN 200

Fields of Applications

Fire systems

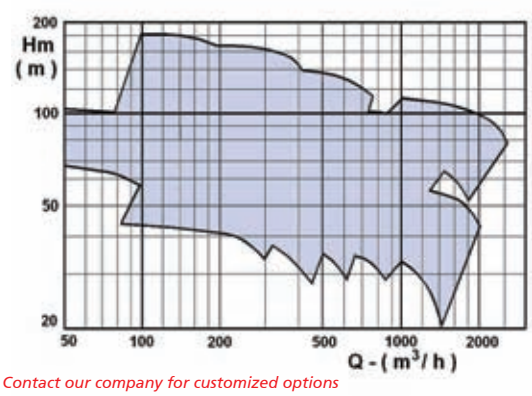
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

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.



Contact our company for customized options

YNM series

End Suction Centrifugal Fire Pumps

General Specifications

Flow Rate	: 20 ... 105 m³/h
Head	: 35 - 105 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 2900 ... 3600 d/d
Suction Flange	: DN 65 ... DN 200
Discharge Flange	: DN 50 ... DN 150

Fields of Applications

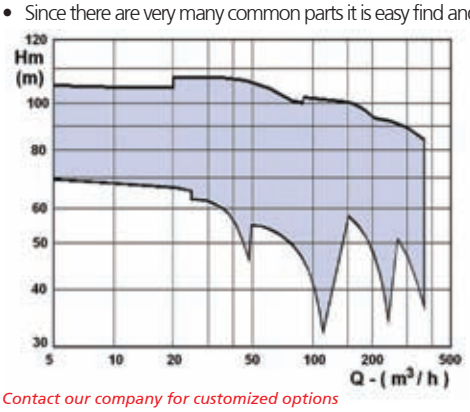
- Hospitals
- Offices
- Airports
- Factories
- Power plants
- Schools
- Pharmacies
- Depositories

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.



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ENM series

FIFI System Pumps

General Specifications

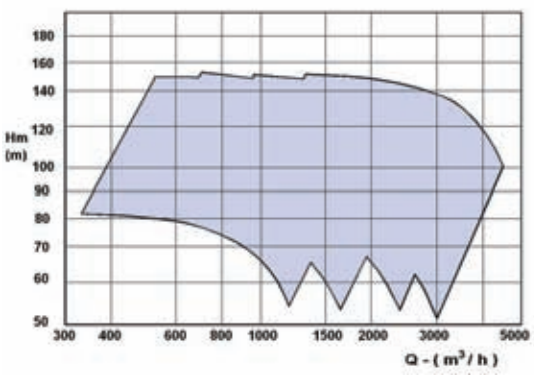
Flow Rate	: 400 ... 4000 m³/h
Head	: 60 ... 150 m
Operation Pressure	: 16 Bar
Operation Temperature	: -20 ... 110°C
Motor Speed Range	: 1000 - 1800 d/d
Suction Flange	: DN 300 - DN 500
Discharge Flange	: DN 250 - DN 400

Fields of Applications

- Fi-fi systems for fireboats
- Fresh water and sea water pumping in ships.
- Large fire extinguishing systems.
- Industrial and social installations.

Design

- These are horizontal type, single stage, single entry, horizontal volute type pumps with a horizontal suction port on the axis and the discharge port on the top, and an enclosed impeller.
- Since the volute is symmetrical it can be assembled to be used in either direction. Thanks to this feature, it can also be used with motors which rotate counterclockwise.
- ENM pump impellers are of double incline type. The impellers are dynamically balanced to the base. The axial thrust is compensated by rear back wear rings and balance holes.
- The pumps are equipped with a rigid shaft that can operate under different loads.
- The sliding bearing within the suction body is lubricated with water.
- The construction is compact thanks to the short distance between the bend-resistant shaft and bearing and the volute. This feature allows it to be used in space-restricted (eg. Marine Fire Brigade).
- In standard configurations, two roller bearings are used. A console bearing is optional.



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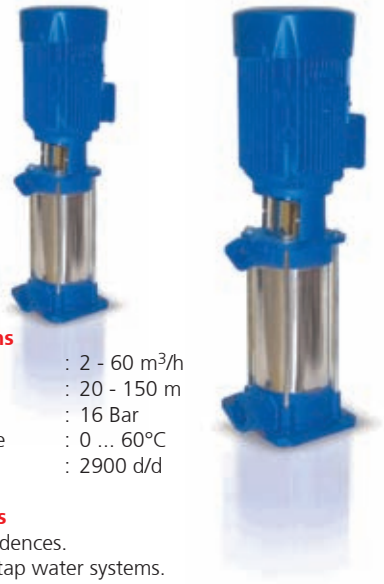
DF series

Booster Pumps



General Specifications

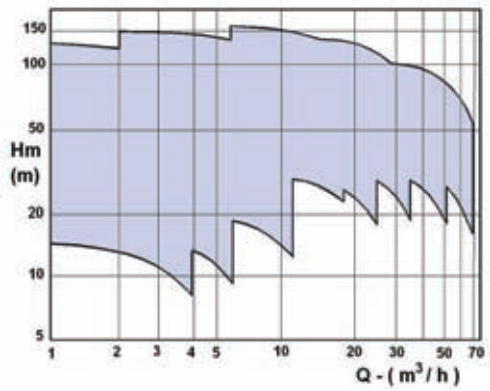
Flow Rate	: 2 - 60 m³/h
Head	: 20 - 150 m
Operation Pressure	: 16 Bar
Operation Temperature	: 0 ... 60°C
Motor Speed Range	: 2900 d/d

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.



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Single Pump Unit Boosters

General Specifications

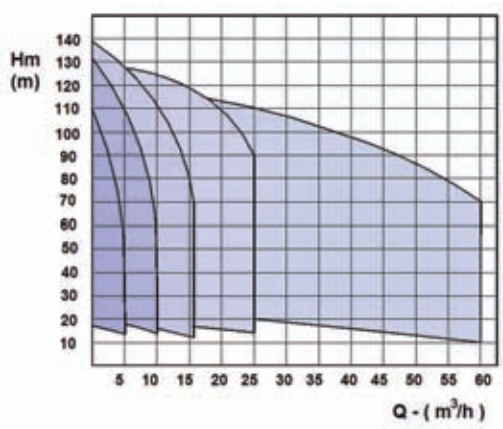
Flow Rate	: 2 - 60 m³/h
Head	: 20 - 150 m
Operation Pressure	: 16 Bar (Max)
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1''1/4 - 3''
Discharge Flange	: 1''1/4 - 2''

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.



Contact our company for customized options

DS-DB-DM-DMA-DMB-DM65 series

Multi Pump Unit Boosters

General Specifications

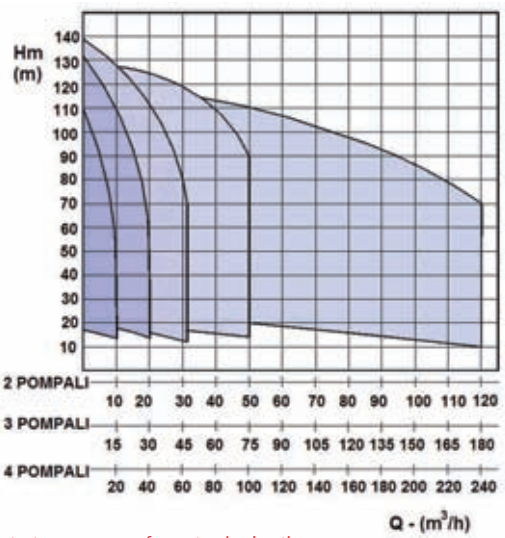
Flow Rate	: 0 - 240 m³/h
Head	: 20 - 150 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d

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.



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DSP series

Single Pump, Mono-Phase Boosters

General Specifications

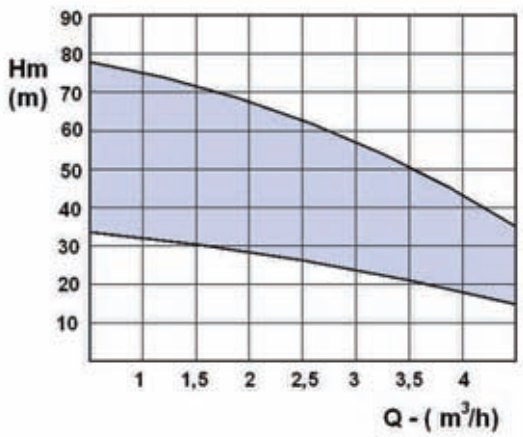
Flow Rate	: 0 - 4 m^3/h
Head	: 20 - 78 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1''1/4
Discharge Flange	: 1''1/4

Fields of Applications

- Apartments and residences
- Schools, business centers and small industrial plants

Design

- Mechanical seal completely prevents leakage.
- Ready for use with all elements intact.
- Assembly is easy and economical.
- Pump stage number varies between 4 and 10.
- There is the choice of completely stainless steel materials.
- Provides for extra comfort due to the low pressure between entry and discharge.
- Protection system against dry operation is available



Contact our company for customized options

DSM series

Single Pump, Mono-Phase Boosters

General Specifications

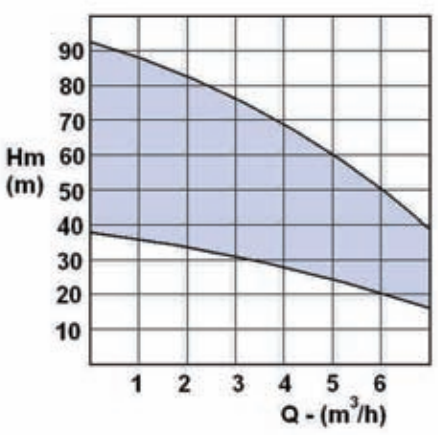
Flow Rate	: 0 - 6 m^3/h
Head	: 92 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1''1/2
Discharge Flange	: 1''1/4

Fields of Applications

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

Design

- Silent, comfortable and reliable, multi-stage pump package booster pumps.
- Operating switch included in the package provides for safe and smooth functioning of the booster. It does not require an electric panel.
- Included in the package are a level floater that prevents dry operation, silent check valve, chassis and the rubber feet prevent vibrations.
- The number of stages of the pump varies ranges between 4 and 10.
- Mechanical seal completely prevents leakage.
- Assembly is easy and economical
- All materials can be made of stainless steel upon special request.



Contact our company for customized options

HDSH series

Horizontal Tank Monophase Stainless Steel Boosters

General Specifications

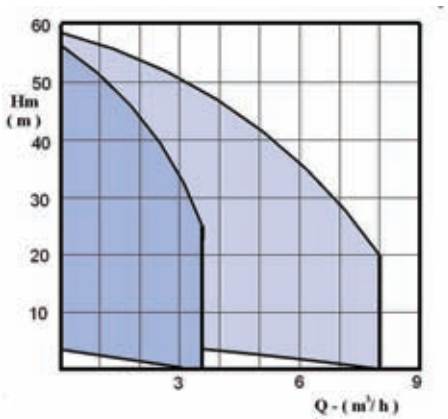
Flow Rate	: 1 ... 8 m³/h
Head	: 12 - 60 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1'' - 1''1/4
Discharge Flange	: 1''

Fields of Applications

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

Design

- In HDSH series booster pumps, the centrifugal pump is placed on a horizontal footed tank that is fitted with a membrane.
- The membrane is Butyl-Membrane which is compatible with standards of health. Located inside the tent, the membrane accords with German standards of health and is the type that gives no odor to water and prevents bacterial growth.
- The pump is sold as a complete package, including the balance tank, and is silent and fully automatic with low electric consumption and economical operations.
- All elements that come into contact with water are made of non-corrosion materials.
- Since the pump is mounted on the tank it does not occupy too much space.
- Mechanical seal completely prevents leakage.
- Assembly is easy and economical.



Contact our company for customized options

HDSH.2 series

Two Pump Unit, Mono-phase Stainless Steel Boosters

General Specifications

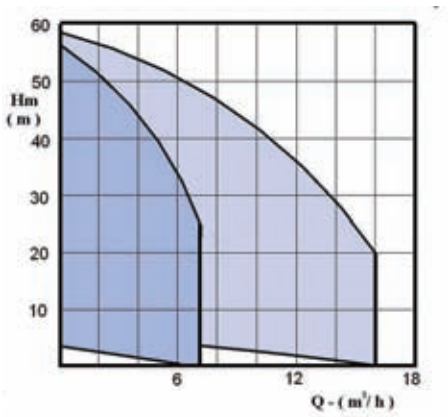
Flow Rate	: 1 - 16 m³/h
Head	: 12 - 60 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1''1/2
Discharge Flange	: 1''1/2

Fields of Applications

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

Design

- It is a booster set composed of 2 pumps that are horizontal type, multistage centrifugal pumps.
- Silent, fully automatic, low electric consumption, economical and comfortable.
- Stainless steel shaft and horizontal pumps, body and impeller
- Mechanical seal completely prevents leakage.
- Assembly is easy and economical.
- The tank use is compatible with European safety standards (CE).
- The membrane inside the tank is compatible with German standards of health, gives no odor to water and prevents bacterial growth.
- Level floaters prevent the pump from functioning without water.
- Can be used with any size expansion vessel.
- Service and maintenance is easy. The pumps can be removed independently and can be serviced without interrupting customer's water supply.



Contact our company for customized options

SUPERDAF series

Single Pump Package Booster Pumps

General Specifications

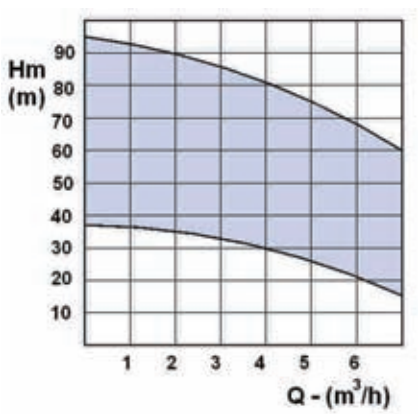
Flow Rate	: 0 - 4 m^3/h
Head	: 78 m
Operation Pressure	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1''1/4
Discharge Flange	: 1''1/4

Fields of Applications

- Apartments and residences
- Schools, business centers and small industrial installations

Design

- Booster pump set that has a single pump, multistage centrifugal pump with the motor block mounted on the pump.
- Number of pump stages range between 4 and 10.
- Quiet, comfortable and reliable, multi-stage pump package booster pumps.
- Mechanical seal completely prevents leakage.
- All materials are ready for use.
- Assembly is easy and economical.
- Available in all stainless steel parts.
- Triphase/Monophase available.



Contact our company for customized options

HDSV series

Multi-Pump, Vertical Shaft Non-corrosion Booster Pumps

General Specifications

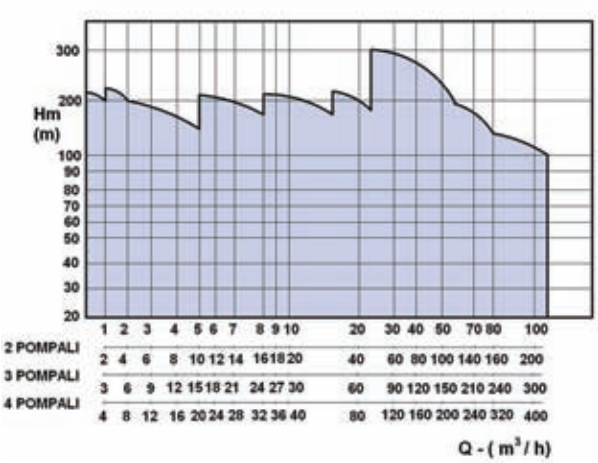
Flow Rate	: 0-110 m^3/h
Head	: 20-300 m
Operation Pressure	: 17 Bar
Motor Speed Range	: 2900-3600 d/d
Suction Flange	: DN25-DN100
Discharge Flange	: DN25-DN100

Fields of Applications

- Apartments and residences
- Schools, business centers and small industrial installations

Design

- Single and multi-pump boosters with vertical, multi-stage pumps
- The pumps have stainless steel body, shaft and impeller.
- All elements that come into contact with water are made of non-corrosion materials.
- Simple body and perfect balance provide for low noise and vibration.
- Mechanical seal completely prevents leakage.
- Frequency control devices enable energy consumption.
- High performance, safe operation and easy maintenance.



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FDSH series

Hydromatic Monophase Stainless Steel Boosters

General Specifications

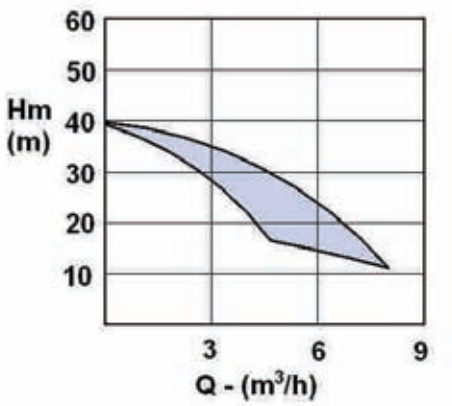
Flow Rate	: 1 - 8 m^3/h
Head	: 12 - 40 m
Operation Pressure (Max)	: 8 Bar
Motor Speed Range	: 2900 - 3600 d/d
Suction Flange	: 1'' - 1''1/4
Discharge Flange	: 1''

Fields of Applications

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

Design

- Monophase booster pumps composed of horizontal shaft and a multistage pump with a flow control device (hydromat) mounted on top.
- Hydromatic boosters do not have maintenance requiring parts such as pressure switch and membrane tank. The pump continues to operate for a while after pumping the water so the system does not need the use of a tank.
- FDSH boosters operate automatically.
- The initial and final pressure difference is low providing for extra comfort.
- Mechanical seal completely prevents leakage.
- Shaft, body and impellers are made of stainless steel.
- Assemblage is easy and free of charge.
- Protection system against dry operation is available.



Contact our company for customized options

Pressure Tanks

Interchangeable Membrane Closed Pressure Tanks

Fields of Applications

- Heating, air condition systems and industrial installations as single or double pipe systems
- Floor heating, primary loading stages
- Used in boiler or tank filling stages

Design

- Inside the vessels used in sanitary applications is a totally hygiene butyl membrane that will not taint the water with odor. The membrane used in heating and cooling systems is made of EPDM that is surrounded with nitrogen gas under pressure.
- To protect against corrosion, the outer surfaces of the vessels are painted with electrostatic baked powder paint. The inner surface of the condensation tanks with changeable membrane is corrosion resistant as long as there is no damage to the membrane and the surface does not come into direct contact with water.
- Under normal conditions (no foreign particles being present in water and switch number being properly selected) the closed pressure tanks have a very long lifetime.

TYPE A

Frequency Controlled Panels

Design

In standard manufacture, the pilot pump has an inverter and the other pumps have direct or star-delta starting with . The pressure is measured by the pressure transmitter located on the discharge collector which gives an analog signal. Soft starter is optional in the standard system.

General Specifications

- Made of 1.5 mm DKP metal sheet up to 50x75x22 mm and of 2 mm sheet for larger dimensions. Electrostatic powder paint is used.
- Automatic stop provided by the alarm pressure which is set in accordance with German standards.
- Protection against dry operation by use of a floater (liquid level relay is optional).
- Excess flow and short circuit protection.
- Pilot pump has inverter; the other pumps have standard on - off start.
- All operation modes observed on panel by means of leads.
- The pressure is measured by the pressure transmitter located on the press collector which gives analog signal.

TYPE B

Frequency Controlled Panels

Design

The pilot pump has an inverter and the other pumps start up with star-delta connection (pilot pump is flexible). The pressure is measured by the pressure transmitter located on the press collector which gives analog signal. The standard soft starter is optional.

General Specifications

- Made of 1.5 mm DKP metal sheet up to 50x75x22 mm and of 2 mm DKP sheet for larger dimensions. Electrostatic powder paint is used. Entrance and exit are below with panel connected to fireproof connector.
- Touch button and screen for simulating operation and breakdown conditions.
- Observation of the set pressure, tolerance and pressure transmitter value on the screen.
- Observation of past breakdown conditions by actual date and time.
- Observation of all breakdown conditions (operation in the absence of water, motor thermal breakdown, transmitter failure).
- Observation of operation on the main screen.
- Observation of pump frequency, voltage and current value.

TYPE C

Frequency Controlled Panels

Design

Pumps are controlled and monitored by PLC. One of the pumps is operated with frequency control in order to keep the pressure of the system constant. PLC is used to keep the pressure of the system constant with a tolerance of + - 0.2 bar depending on the amount of water desired. Pressure is measured by means of the pressure transmitter on the press collector which sends analog signals. The youngest pump in the system is operated by the frequency converter and if more water is required and the pressure falls below the set value the frequency converter transmits the 1st pump to the network and the 2nd youngest pump is put into operation smoothly. Thus, the set pressure of the system is maintained.

General Specifications

- Made of 1.5mm DKP metal sheet up to 50x75x22 mm and of 2 mm sheet for larger dimensions. Electrostatic powder paint is used. Entrance and exit are below with panel connected to fireproof connector.

- Touch button and screen (LCD) for simulating operation and breakdown conditions.
- Observation of the set pressure, tolerance and pressure transmitter value on the screen.
- Observation of past breakdown conditions by actual date and time.
- Observation of all breakdown conditions (operation in the absence of water, motor thermal breakdown, transmitter failure).
- Observation of operation on the main screen.
- Observation of pump frequency, voltage and current value.

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