



MONASH PUMPS (ASIA)



Overview

MP non-clogging submerged sewage pumps are new generation of products developed with the advanced technology abroad and on the base of the operational characteristics of pumps at home. Featuring distinguished energy conservation. Winding and clogging resistance, as well as automatic installation and automatic control etc., it is especially suitable for handling sewage containing solid particles and long fibre.



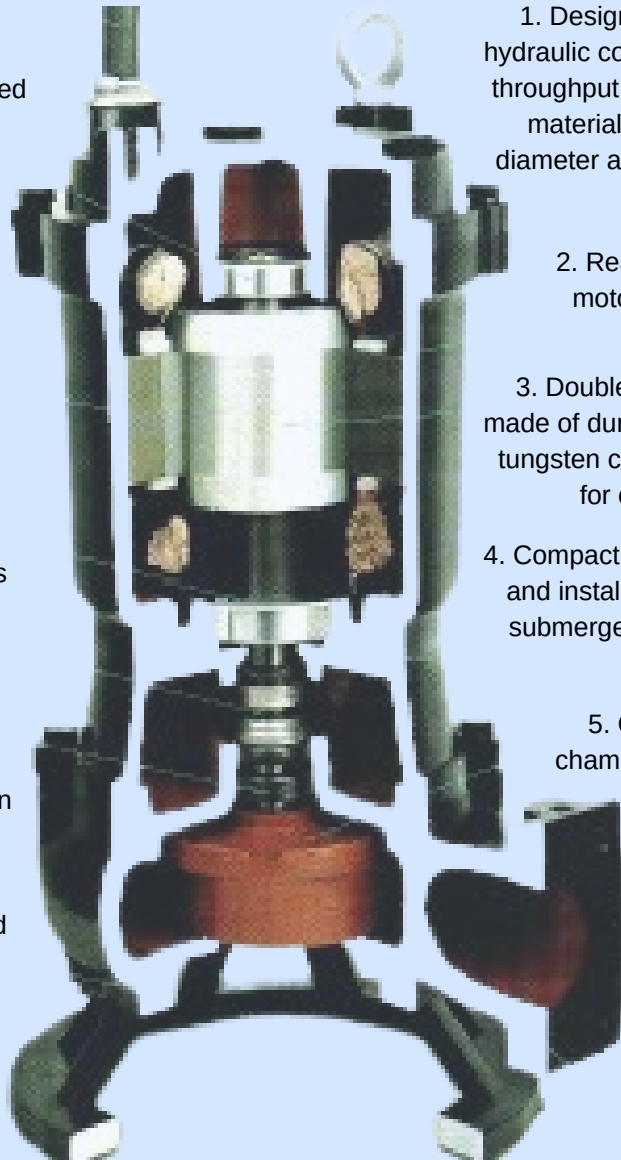
Provided with original impeller structure and latest mechanical seal, this pump can be used to effectively handle medium containing solid substances and long fibre. Compared with the conventional impellers, the impeller on this pump uses single-channel or double-channel, which is similar to an elbow of the same section to display outstanding throughput capacity. Plus the reasonable spiral housing to feature high efficiency. Impellers have been subject and static balancing test so that there cannot be any vibration in operation.



This pump is given sophisticated hydraulic performance, with all performance indexes in accordance with relevant standard specifications. Ever since the products were put into market, they have been greatly recognized by the mass customers for their distinctive efficiency, reliable performance and consistent quality.

Applicability

1. Drainage of seriously polluted wastewater in industrial and commercial areas.
2. Drainage system in municipal sewage plant.
3. Sewage drainage station in residential areas.
4. Drainage station in national defense system.
5. Sewage drainage in hospitals and hotels.
6. Municipal and construction projects.
7. Used as auxiliary equipment in exploration and mining.
8. Methane pool and farmland irrigation in rural areas.
9. Water supply equipment in waterworks.

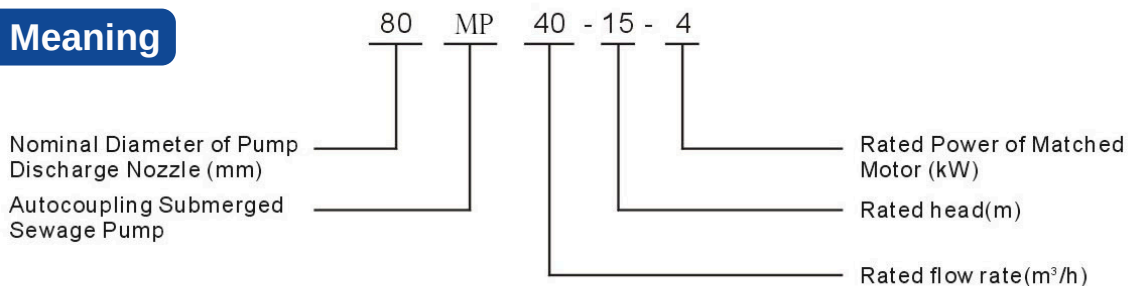


Features

1. Designed with large-flow and anti-clogging hydraulic components to have greatly improved the throughput capacity of sewage, it can handle fibre material with a length up to 5 times of pump diameter and solid particles with a diameter up to 50% of pump diameter.
2. Reasonable design, good matching of motor, high efficiency and remarkable energy conservation.
3. Double-channel mechanical seal in series, made of durable wear and corrosion resisting hard tungsten carbide to enable pump working safely for continuously over 8,000 hours.
4. Compact structure, small volume, easy to move and install, no need of pump room, work when submerged into water, great economization of construction cost.
5. Oil and water probe is fitted inside oil chamber. Once the mechanical seal at pump side is damaged and water comes into the oil chamber, the probe will send out signals to carry out protection to the pump.
6. Upon request, it can be fitted with full automatic safety protection control cabinet to carry out monitoring control on the water and electrical leakage, overload and over temperature etc. Thus to ensure reliable and safe operation.

11. Two types of installation, fixed auto coupling installation and movable free installation to meet the needs of different service conditions.
9. Service within the range of head to ensure motor not overloaded.
10. According to service conditions, motor can adopt water jacket type external circulation cooling system to ensure the safe operation of pump under waterless (dry) conditions.
7. Double guide rail auto coupling installation system to bring great easiness to installation and maintenance, so that people are not obliged to get into the sewage pit.
8. Float switch can control the stop and start of pump automatically according to the change of required water level, with no need of a special person to care about it.

Model Meaning



Structural Specifications.

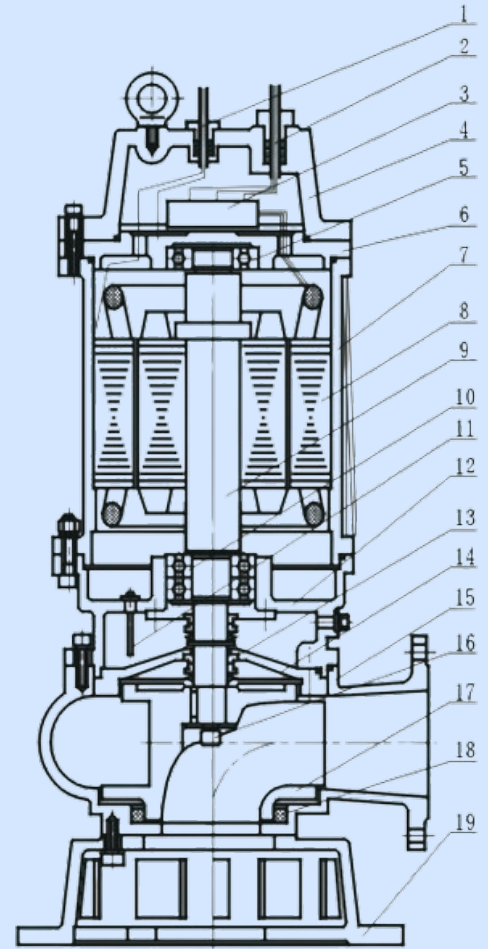
MP non-clogging submerged sewage pump is composed of motor and pump that are isolated by oil isolation chamber and mechanical seal components. It is a product of mechanical and electrical integration, with motor and pump sharing a common shaft (rotor) to feature overall short dimensions and compact structure of pump.

And it is equipped with many protective devices to keep pump running safely and reliably. The functions of its main components are set forth below

Signal line 1: equipped with full automatic pump control cabinet to carry out complete protection on pump, including water leakage, phase failure, short circuit, overheating, motor overload and etc.

Motor stator 8: insulation of level B or F.

Water leakage probe 11: fitted inside the oil chamber. Once mechanical seal is damaged and water comes into the oil chamber, the probe will send out signal and the control system will carry out protection on the pump.



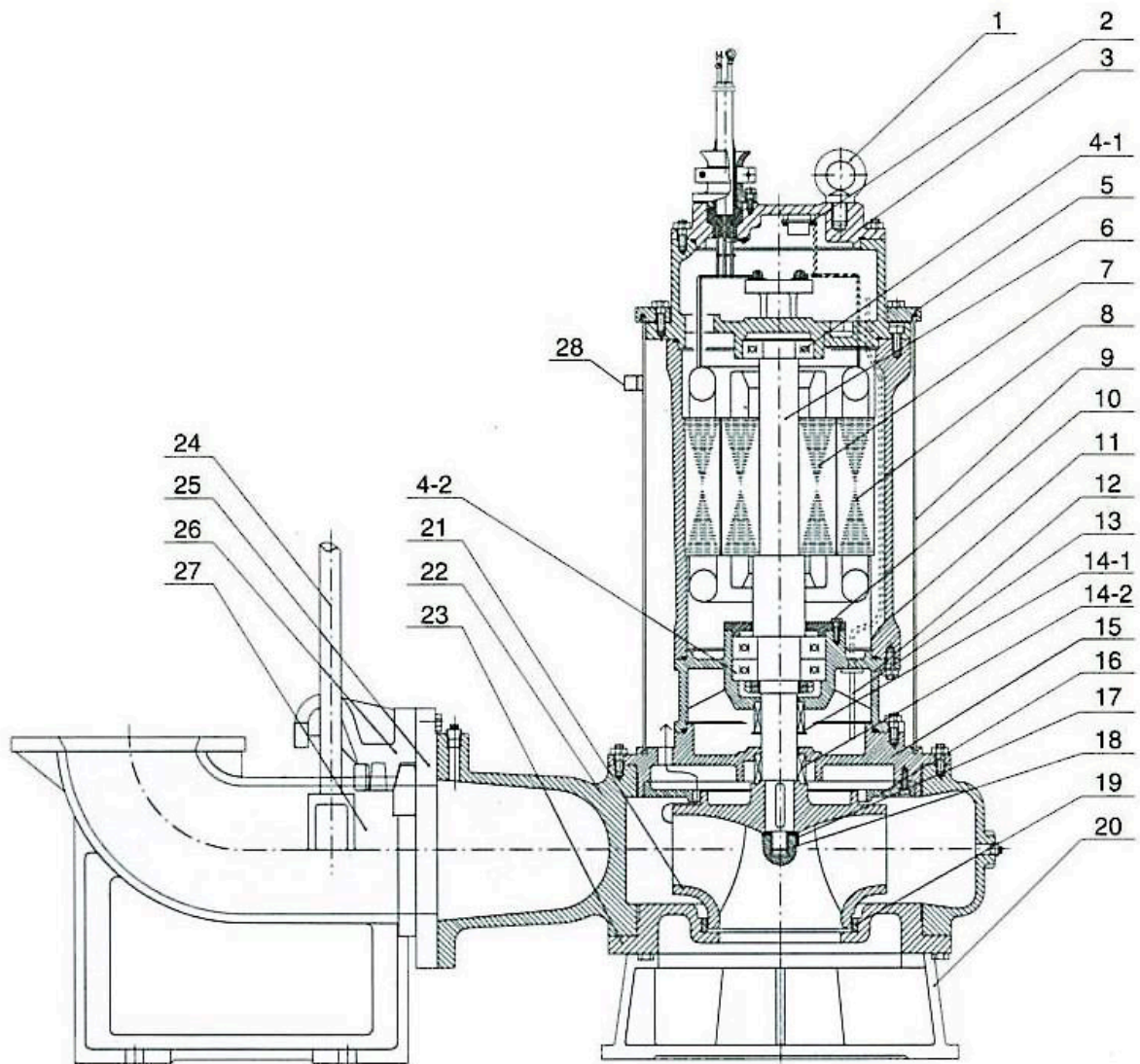
Mechanical seal 13: use of double channel seal in series, made of hard tungsten carbide to feature reliable sealing, wear resistance, long service life and so on.

Impeller 17: single or double channel structure to offer outstanding throughput capacity to handle sewage containing large material and fibra, and to decrease the failure of clogging and winding.

Pump body 15: matched with impeller to offer high efficiency.

Sealing ring 18: fitted at the ring of pump body. When there is abrasion at the body ring caused by the running of impeller, have the sealing ring replaced to maintain pump running at the best efficiency.

1	Signal Line	11	Oil-water Probe
2	Motor Wiring	12	Oil Chamber
3	Terminal Box	13	Mechanical Seal
4	Motor Cover	14	Rear Pump Cover
5	Bearing	15	Pump Body
6	Upper end Cover	16	Impeller Bolt
7	Motor Casing	17	Impeller
8	Stator	18	Sealing Ring
9	Axis (Rotor)	19	Base
10	Bearing		



CONSTRUCTION

No.	Name	Material	No.	Name	Material
1	Neck bolt	SUS420	14-2	Mechanical seal	SiC-SiC
2	Heat-Protector		15	Oil box	FC200
3	Motor cover	FC200	16	Oil cover	FC200
4-1	Bearing		17	Washer	SUS304
4-2	Bearing		18	Impeller nut	FC200
5	Cooling house flange	SS34	19	Seal-ring	LBC2
6	Shaft	SUS420	20	Strainer	FC200
7	Rotor		21	Impeller	FC200
8	Stator		22	Pump casing	FC200
9	Cooling house	SUS304	23	Bottom cover	FC200
10	Bearing cover	FC200	24	Pail piping	SS34
11	Motor casing	FC200	25	Flange setter	FC200
12	Bracket	FC200	26	Slide	FC200
13	Leak detector		27	Duckfoot	FC200
14-1	Mechanical seal	C-Al ₂ O ₃	28	Discharge	SS34

Installation Specifications

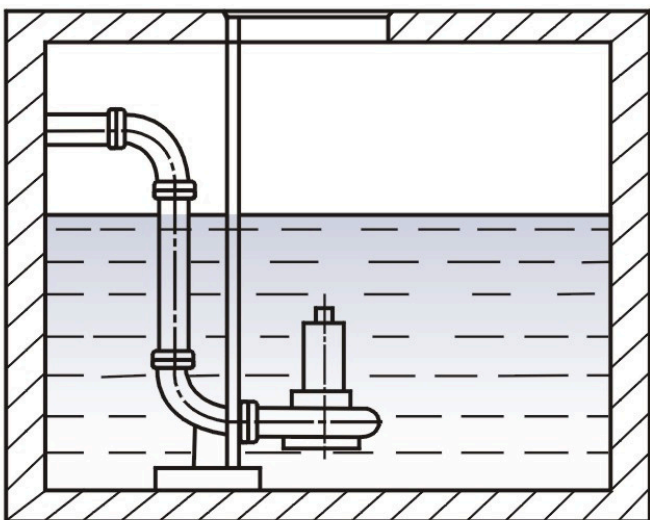
1. Autocoupling Installation System

It is suitable for fixed service occasions for long time, featuring fast installation, easy checkup and maintenance etc. This system uses a special base fixed at the bottom of sewage pit and connected to the outlet pipe. With a supporting block mounted at the top of the pool, they are connected by a guide bar. Connected with the special bracket, pump will move along the guide bar down to the base to be automatically coupled and sealed, and to be automatically fallen off when being lifted.

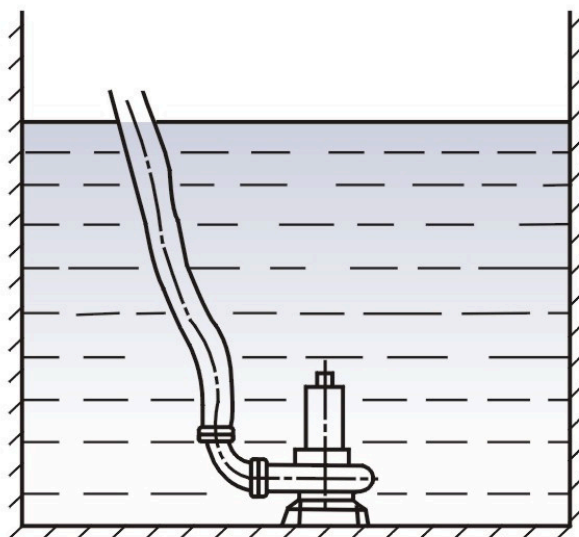
2. Movable Installation System

It is supported by the bracket, and can be put into work when connected to an outlet tube. This type is mainly used for emergency, maintenance work or for the need to change the working site frequently.

Installation Mode



Autocoupling Installation




Movable Installation



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