VERSA PUMP®

SR series

Electric Submersible Pump



ISO 9001-2008

SR series

Electric Submersible Pump

Application

VERSA - SR Series pumps are used for pumping all types of sewage and effluent in water treatment and industry, especially untreated sewage with long fibrous and solid substances, liquids containing air and gas as well as raw, activated and digested sludge.

Performance Range

Speed	740 - 2840r/min
Discharge dia.	40 - 800mm
Flow rate	10 - 8000m3/h
Head	5 - 100m
Power	1.1 - 600kW

Operation Condition

Power source	:	380V 50Hz
Pumped liquid PH	:	5-9
Max. temperature	:	40 °C
Allowable passed solid's dia.	:	1/ 3 of discharge dia. (Approx)
Start version	:	Direct-start or soft-start

Cooling Version:

1.1 - 15kW	Using external cooling media
18.5 - 600kW	Internal self-circulation cooling

Lowest Water Level:

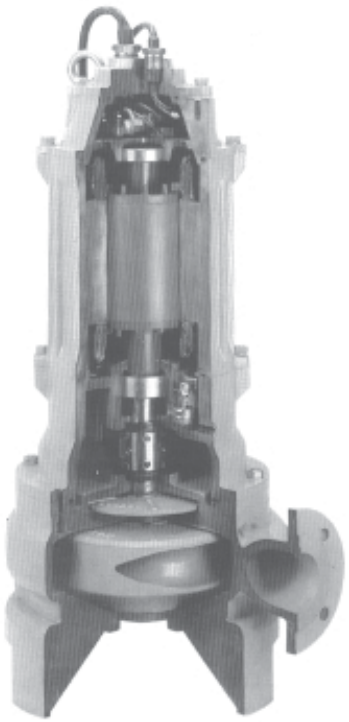
1.1 - 15kW	At least half a submersible motor must be submerge
18.5 - 600kW	Submersible motor permit to bare out of water.

Standard Material

- Casing : Cast Iron
- Impeller : Cast Iron
- Shaft : Stainless Steel
- Shaft Seal : Mechanical Seal
- Option Material are available

Advantages :

- Excellent Performance: Impeller with single of double blockage-free vane avoids jamming and clogging.
- Convenient to install: Portable use version or automatic coupling installation version is available.
- Convenient to control: Full automatic control system for protection and signal output is easy to achieve central monitoring.
- Excellent reliability: With functions of leakage monitoring, overheating protection and overload protection, etc.



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Features

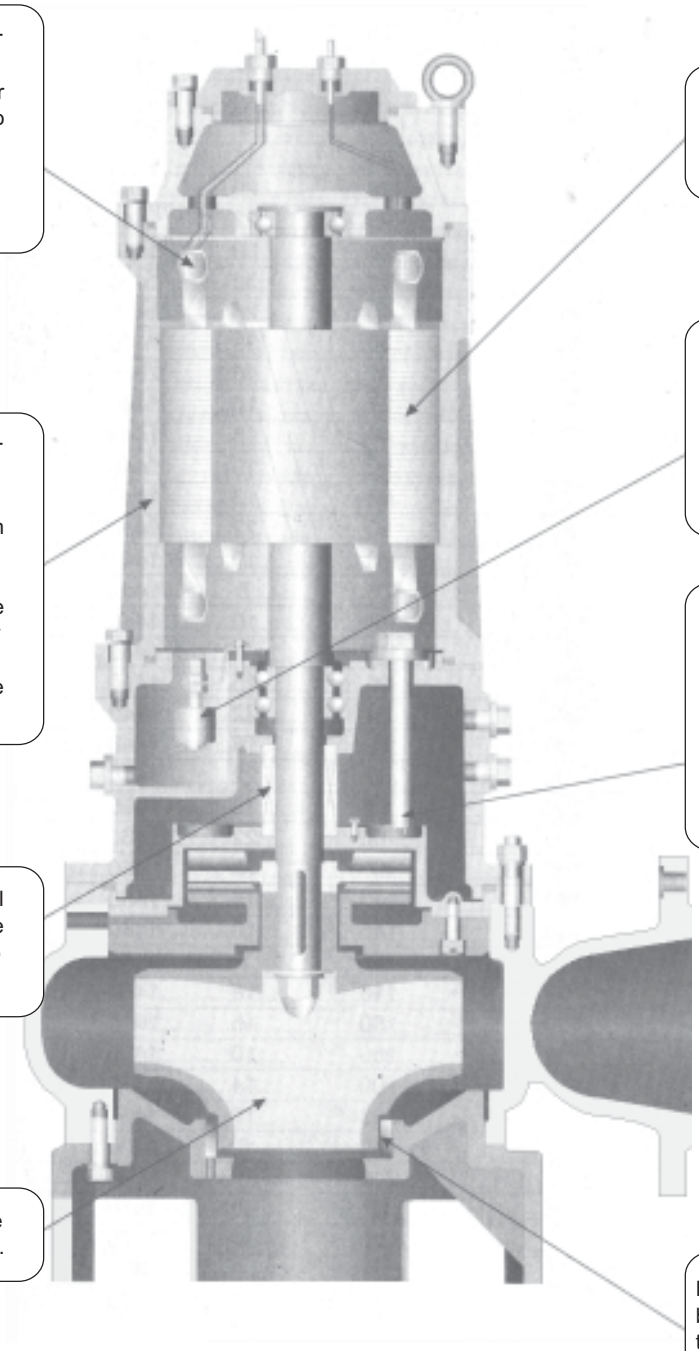
S R series submersible sewage pumps consist of motor and pump, separated by oil chamber and mechanical seal. The products are compact, with variety of protections to ensure for pump safe and reliable operating.

When pump's power is over 30kW, a leaking probe is incorporated in the connector box. It will give out a signal to the control system for protecting the pump when leaking due to the cable broken or else causes.

When pump's power is over 18.5kW, a self-circulation cooling system is incorporated. The water from outlet will be lead into the outer casing of stator for cooling itself to guarantee the pump operating normally when water level in the suction pool drown below the minimum level.

A mechanical double end seal (or double mechanical single end seal) ensure for pump reliably operating.

Impeller with large passage avoids jamming and clogging.



A long and slender stator is up to isolation class F (155°C), in which overheat and overload protector are installed.

A leakage probe incorporated in the bottom of the oil-separating chamber sends out a signal when leaking in the motor chamber due to broken of mechanical seal (signal terminal is XL).

The oil-water probe sends out a signal when water enters the oil-separating chamber as a result of damage of mechanical seal in the pump side. The control system displays the trouble and informs the workers to maintain it on time (signal terminal is 4, 5)

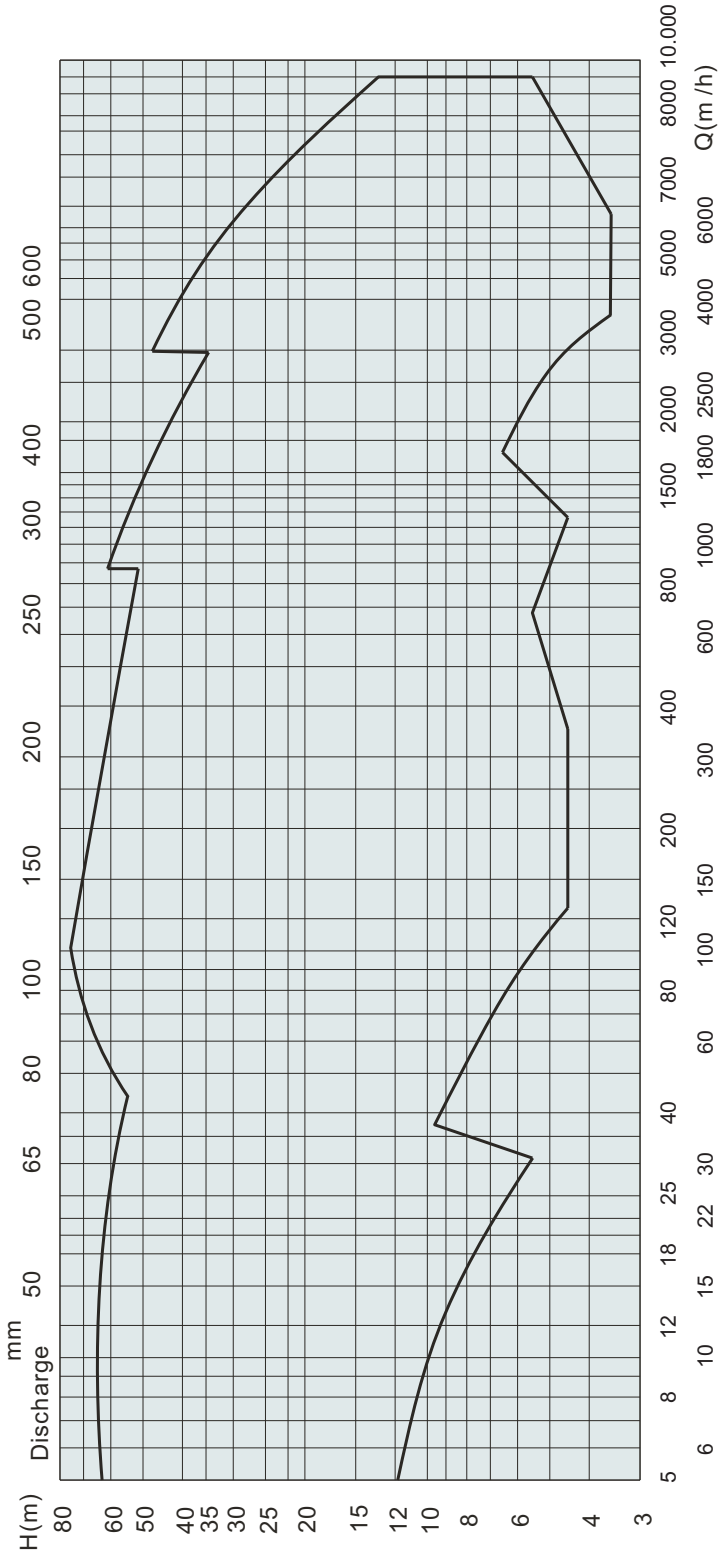
Rechargeable seal ring between the impeller and body to keep the optimum operation condition.

Fig. 1

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Electric Submersible Pump

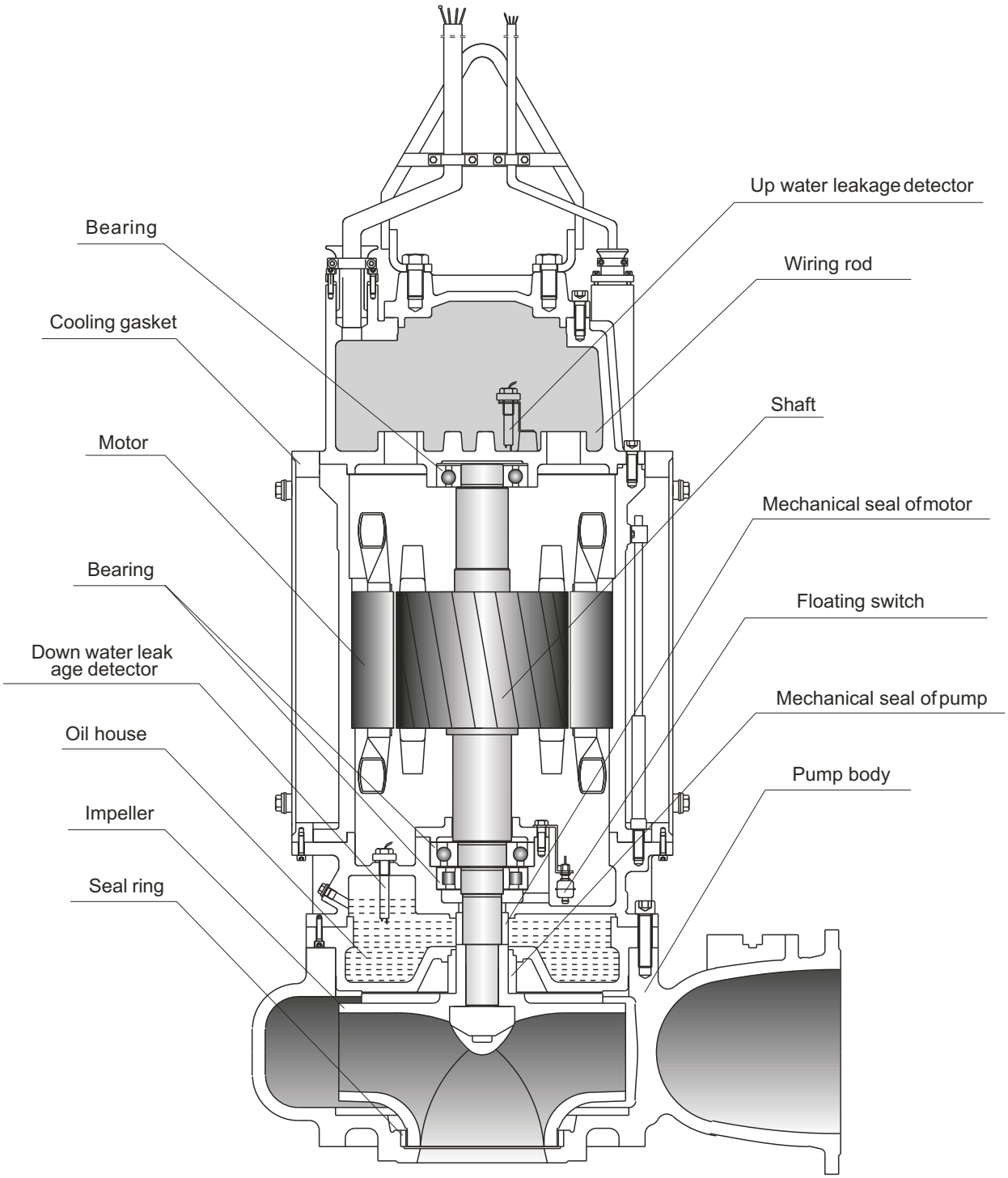
■ Performance Curve



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■ Section Drawing



■ Impeller Type

DV



Double Vane Impeller

Large volume and suitable for delivering sewage with solids.

DC



Double Channel Impeller

Two channels symmetrical, excellent balance, high head, excellent sewage disposal abilities.

MF



Mixed Flow Impeller

Mixed flow impeller to be equipped with submersible mixed flow pump, low head and large volume.

V



Vortex Impeller

Excellent flow capacity of sewage and suitable for transfering sewage.

SO

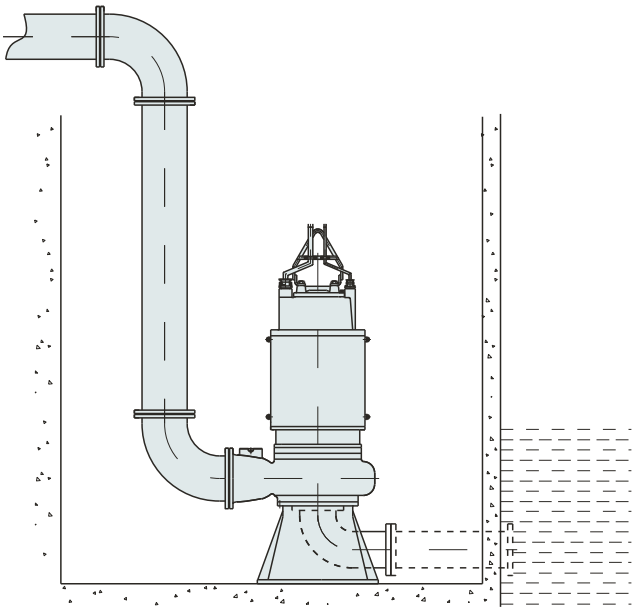


Semi-Open Impeller

High efficiency and suitable for transfering sewage.

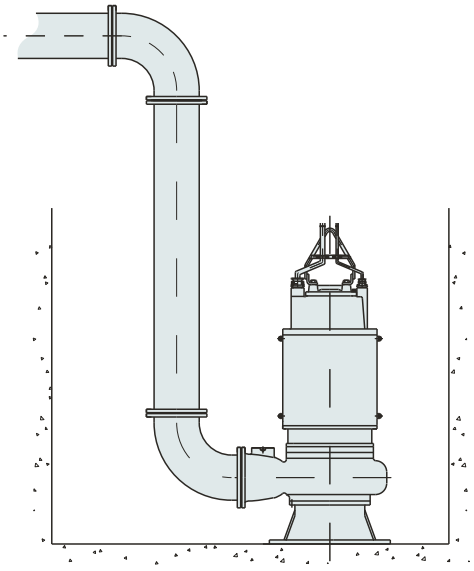
■ Installation Type

1.



Dry Type Installation

2.



Wet Type Installation

■ Automatic coupling installation

The pump is placed down along with the guide rod and automatically connected to the drainage pipeline system.

SCHEMATIC DRAWING OF COUPLING DEVICE INSTALLATION

