



Submersible automatic general dewatering pump

HSZ

The Tsurumi Best-seller HS Series Dewatering Pump Is Now Available in an Automatic Type with Simple Float Switch

■ Features

- The power supply and float leads are connected externally on the pump. Even if the float should break for some reason and allow water to enter the pump via the float cable, its anti-wicking structure prevents the influx of water.
- The pump operates only when necessary according to the amount of water that builds up on site, which results in greater energy savings compared with conventional non-automatic models.
- The pump operates only when necessary and has a mechanism to prevent dry-running, a major cause of pump wear. As a result, pump parts such as impeller need to be replaced less frequently.
- Two types, the HSZ2.4S (0.4 kW) and the HSZ3.75S (0.75 kW), are available.



Model HSZ2.4S

Start Level

Stop Level



Illustration of float action

■ Applications

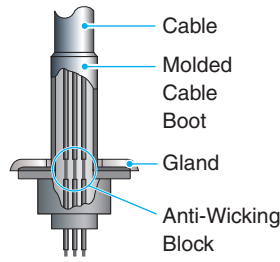
- Construction Site Dewatering
- Cellar or Basement Drainage
- Stormwater Drainage

HSZ Submersible automatic general dewatering pump

Features

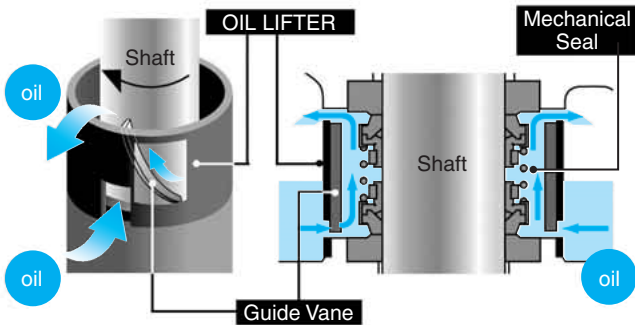
Anti-wicking Block

Gaps between lead cores are sealed to prevent ingress of water into the motor caused by water traveling along lead cores by capillary action.



OIL LIFTER (patent pending)

The OIL LIFTER mechanism functions to supply oil to the top seal faces even if the lubricant in the oil chamber falls below the rated value, and to stably lubricate and cool the seal faces. This unique mechanism helps extend the service life of the mechanical seal.



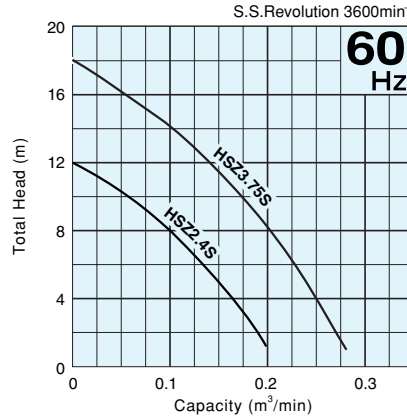
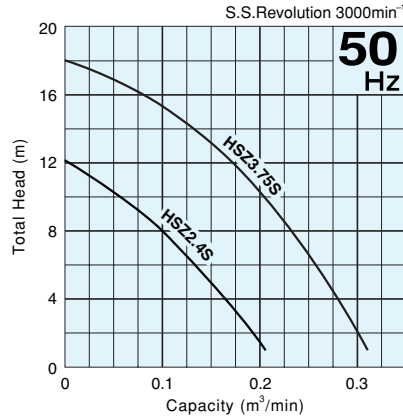
Major Standard Specifications

Item	Discharge bore size mm		
	50	80(50)	
Pumping fluid	Type of fluid	Rain water, Ground water, Sand carrying water	
	Liquid temperature	0~40°C	
Pump	Components	Impeller	Semi-Vortex
		Shaft seal	Double mechanical seal
		Bearing	Shielded ball bearing
	Materials	Impeller	Urethane rubber
		Casing	Ductile iron casting
Shaft seal (mechanical seal)	Silicon Carbide		
Motor	Type, poles	Dry-type submersible induction motor, 2 poles	
	Insulation	Class E	
	Phase/Voltage	Single-phase/110V, 200V, 220V, 230V, 240V	
	Motor protector (Built-in)	Miniature protector Circle thermal protector	
	Lubricant	Turbine oil (ISO VG32)	
	Materials	Frame	Aluminium alloy casting
Shaft		Stainless steel #403	
Cable		PVC Sheath	
Discharge connection		Hose coupling	

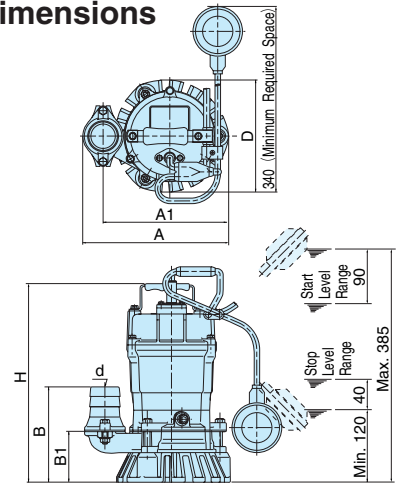
Electrical Specifications of the float switch

Type of Switch	Micro-switch
Max. Current	16A-110V, 12A-250V
Material of Housing	Polypropylene
Material of Cable	Chloroprene Rubber

Performance Curves



Dimensions



Specifications 50/60Hz

Model	Discharge Bore mm	Motor Output kW	Phase	Max. Head m	Max. Flow Rate m³/min.	Start Level mm	Stop Level mm	Std. Cable Length m	Dry Weight kgs	Dimensions mm						
										d	A	A1	B	B1	D	H
HSZ2.4S	50	0.4	Single	12	0.2	385 ⁺⁰ ₋₉₀	120 ⁺⁴⁰ ₋₀	5	11.3	50	241	207	158	84	185	328
HSZ3.75S	80(50)	0.75	Single	18	0.3/0.28	445 ⁺⁰ ₋₉₀	180 ⁺⁴⁰ ₋₀	5	17.5	80(50)	285	233	217	109	185	388

- The HSZ3.75S can be provided with a 50 mm hose coupling upon request.
- The length of the float cable cannot be adjusted.
- Dry weight of the pump excluding cable.

We reserve the right to change the specifications and designs for improvement without prior notice.

**TSURUMI
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