



**SDAE Pump Series -
Intelligent Submersible
Drainage Pump**



SDAE Series is a heavy-duty slurry pump made of cast iron employing the SDA series as the base. An agitator is provided to assist with smooth suction of the pumping fluid. The side-flow, top-discharge design keeps the motor cool even if the pump is operated continuously with its motor exposed in air, and it makes the pump easier to be placed in a confined space. This pump is suitable for transferring or draining bentonite slurry used for slurry drilling and draining slurry mixed with water in civil engineering works or foundation works. The pump can operate automatically with built-in intelligent control system, thus achieve low total energy costs.



Main Advantages

- Protect against reverse phase, ensuring correct impeller rotation
- Protect against open phase or impeller jam, to prevent accidental damage
- Automatically stops the pump in the event of an overload
- The pump stops working at high temperature and will automatically restart after cooling to the specified temperature
- The water level sensor's height is adjustable to control pump operation and stop
- The pump stops working within 60s when water level is below the probe

Specification

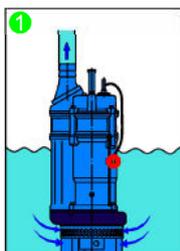
- Capacity: up to 100 m³/h
- Head: up to 32 meters
- Power: 1.5kW (2HP) to 5.5kW (5HP)
- Power supply: Three phase 400V±10%, 50Hz
380V±10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m
- Water temperature: up to 40°C
- Max. water depth: 25m

Application

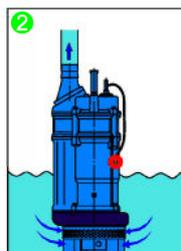
- Civil engineering
- Mines, quarries, coal mine & slurries
- Sewage treatment plants
- General pumping purposes

Automatic control

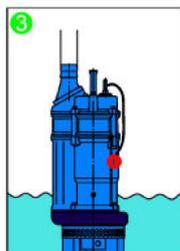
Automatic control



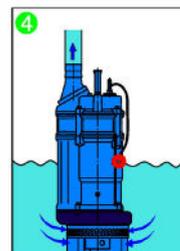
1 Pump continues to run while the electric probe remains submerged.



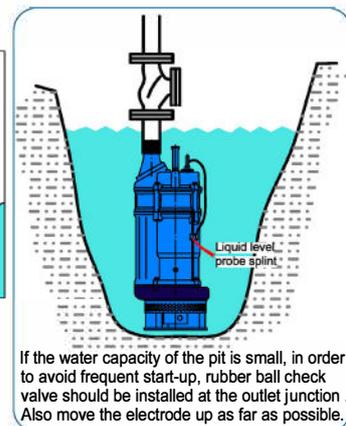
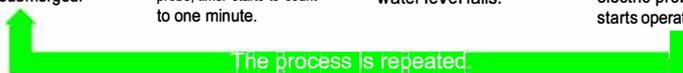
2 When the water surface falls below the electric probe, timer starts to count to one minute.

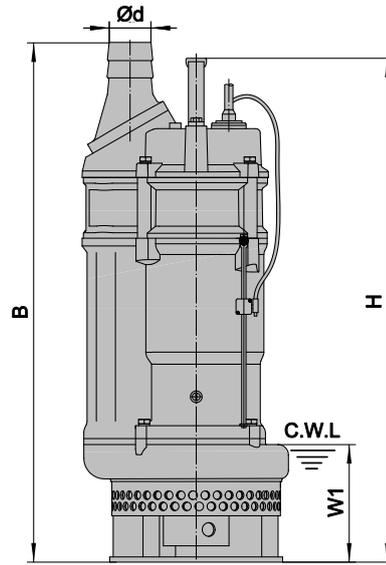
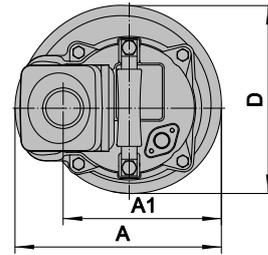
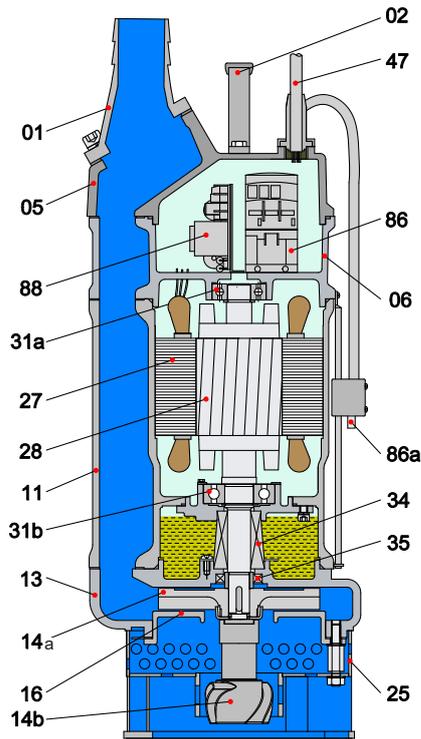


3 Pump stops in one minute after the water level falls.



4 When the water level rises to contact the electric probe, pump starts operating again.





C.W.L: Continuous running water level

Material of construction

Item No.	Part Name	Material
01	Hose Coupling	Cast Iron
02	Handle	Rubber & Steel
05	Upper cover	Cast Iron
06	Upper Support	Cast Iron
11	Motor Body	Cast Iron
13	Pump Body	Cast Iron
14	Impeller	High Chrome Alloy
14b	Agitator	High Chrome Alloy
16	Inlet Plate	Ductile Iron
25	Strainer	Steel
27	Stator	

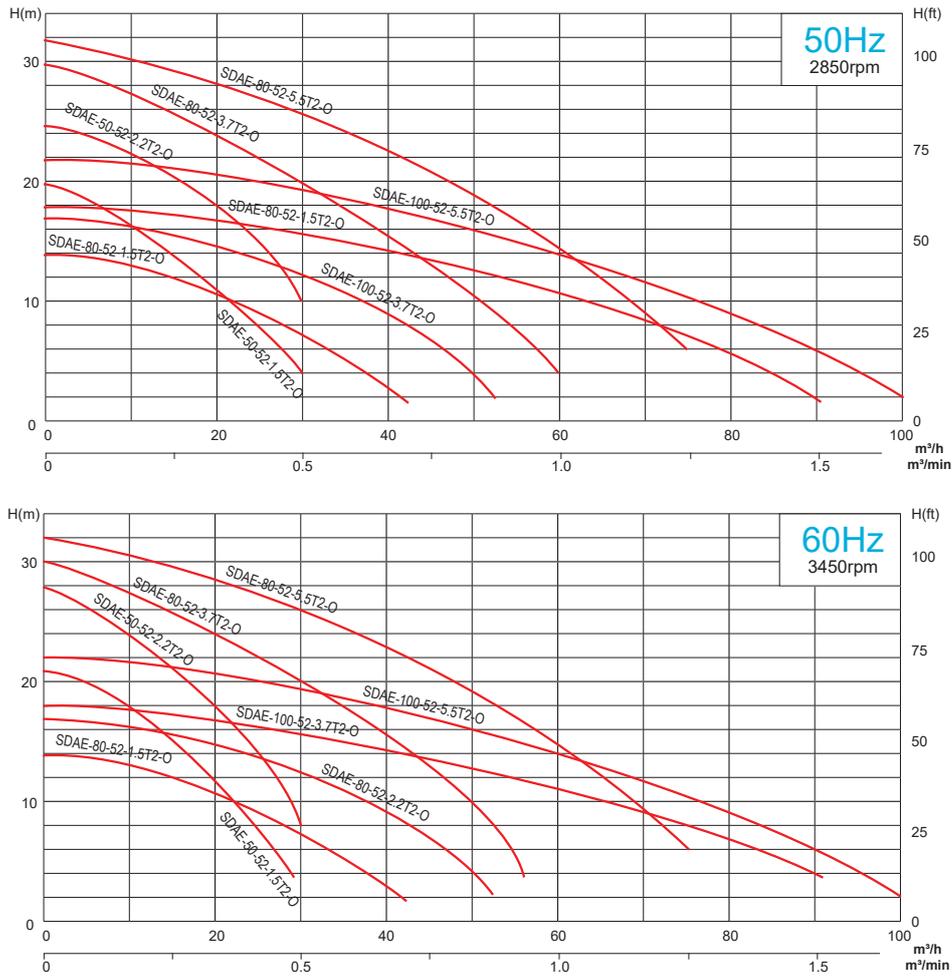
Item No.	Part Name	Material
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball Bearing
31b	Bearing	Ball Bearing
34	Mechanical Seal	Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(3.7kW)
35	Oil Seal	
47	Cable	
86	AC Contactor	
86a	Water Level Sensor	
88	Controller Block	

Dimensions

Model (50/60Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packing Dimension
	mm	Kg	Kg	mm						
SDAE-50-52-1.5T2-O	50	235	173	629	216	594	135	43	47	695x265x275
SDAE-80-52-1.5T2-O	80	235	173	636	216	594	135	43	47	695x265x275
SDAE-50-52-2.2T2-O	50	235	173	629	216	594	135	46	50	695x265x275
SDAE-80-52-2.2T2-O	80	235	173	636	216	594	135	46	50	695x265x275
SDAE-80-52-3.7T2-O	80	283	208	714	252	720	165	72	77	805x320x295
SDAE-100-52-3.7T2-O	100	283	208	739	252	720	165	73	78	805x320x295
SDAE-80-52-5.5T2-O	80	329	240	784	300	684	165	86	93	825x355x335
SDAE-100-52-5.5T2-O	100	329	240	809	300	684	165	87	94	865x355x335

All content is subject to change without notice.

Performance curves



Performance table

Model (50/60Hz)	Outlet mm	Motor Power		Rated Current A	Rated Capacity		Rated Head m	Max Capacity		Max Head m	Impeller Passage mm
		kW	HP		m³/h	m³/min		m³/h	m³/min		
SDAE-50-52-1.5T2-O	50	1.5	2	3.5	15	0.25	15	30/27	0.50/0.45	20/21	10
SDAE-80-52-1.5T2-O	80	1.5	2	3.5	30	0.5	7	42	0.7	14	10
SDAE-50-52-2.2T2-O	50	2.2	3	5.0/5.1	18	0.3	19	30	0.50	25/28	10
SDAE-80-52-2.2T2-O	80	2.2	3	5.0/5.1	36	0.6	11	52	0.88	17	10
SDAE-80-52-3.7T2-O	80	3.7	5	7.7/8.0	30	0.5	20	60/55	1.0/0.92	30	10
SDAE-100-52-3.7T2-O	100	3.7	5	7.7/8.0	60	1.0	11	90	1.50	18	10
SDAE-80-52-5.5T2-O	80	5.5	7.5	11.4/11.6	36	0.6	24	74	1.23	32	10
SDAE-100-52-5.5T2-O	100	5.5	7.5	11.4/11.6	60	1.0	14	100	1.67	22	10



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