



**SDSS Pump Series -
Submersible
Drainage Pump**



Introducing the SDSS, a precision-engineered submersible drainage pump meticulously designed for exceptional performance and unparalleled durability when dealing with abrasive liquids. This pump is widely used in the general construction and civil engineering industries. The motor and pump's robust body is made from rigid cast iron or stainless steel, ensuring a prolonged and resilient service life.

A standout feature is its remarkable capability to achieve an increased maximum submersion depth, owing to the mechanical seal's impressive resistance to high pressure. The pump semi-open impeller is made of high chrome alloy with a wear plate (ductile iron) that achieves superior durability.

An integral facet of its design is the effective motor cooling facilitated by the discharge channel ingeniously cast as part of the motor housing. This configuration offers a versatile discharge range spanning from 50mm (2") to 150mm (6"), with motor options ranging from 0.25 kW (0.35HP) to 11 kW (15HP).



Main Advantages

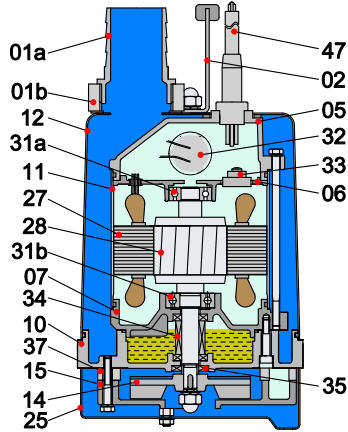
- Range spanning from 50mm (2") to 150mm (6"), with motor options ranging from 0.25kW (0.35HP) to 11 kW (15HP).
- Ideal for dealing with abrasive liquids
- Widely used in the general construction and civil engineering industries

Application

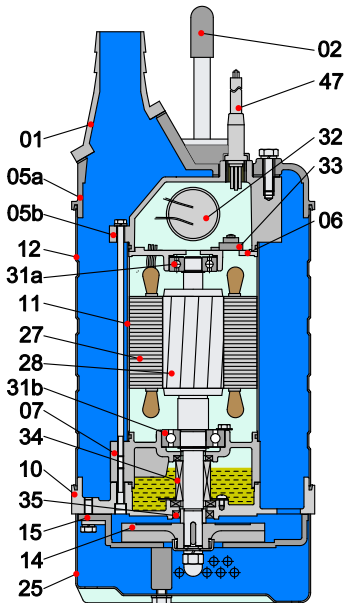
- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Specification

- Capacity: up to 150m³/h
- Head: up to 50 meters
- Power: 0.25kW (0.35HP) to 11 kW (15HP)
- KSSM0.25~0.75: single phase 220V±10%, 50Hz
220V±10%, 60Hz
- KSS1.5-11: three phase 400V±10%, 50Hz
380V±10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m (0.25 - 0.75kW)
15m (1.5 - 5.5kW)
8m (7.5 - 11kW)
- Water temperature: up to 40°C
- Max. water depth: KSSM0.25~0.75kW: 10m
KSS1.1~11kW: 25m



0.25-0.75kW



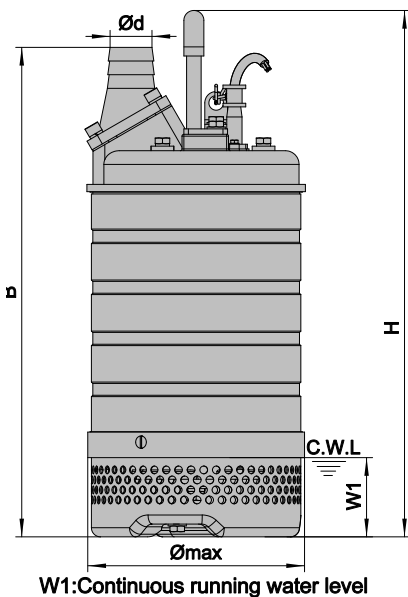
1.5-5.5kW

Material of construction

Item No.	Part Name	Material
01a	Hose Coupling	ABS
01b	Hose Coupling	PA66
02	Handle	Rubber & AISI304SS
05	Upper cover	AISI304SS
06	Upper Bearing Housing	Aluminum Die Casting
07	Bearing Housing	AISI304SS
10	Seal Housing	AISI304SS
11	Motor Casing	AISI304SS
12	Outer Casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball Bearing
31b	Bearing	Ball Bearing
32	Capacitor	
33	Motor Protector	
34	Mechanical Seal	Ceramic-Sic/Carbon Ceramic
35	Oil Seal	
37	Gasket	NBR
47	Cable	H07RN-F

Item No.	Part Name	Material
01	Hose Coupling	AISI304SS
02	Handle	Rubber & Steel
05a	Upper Cover	AISI304SS
05b	Upper Cover	AISI304SS
06	Upper Bearing Housing	AISI304SS
07	Bearing Housing	AISI304SS
10	Seal Bracket	AISI304SS
11	Motor Casing	Stainless Steel
12	Outer Casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball Bearing
31b	Bearing	Ball Bearing
32	Capacitor	(Single Phase Only)
33	Motor Protector	
34	Mechanical Seal	Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(3.7-5.5kW)
35	Oil Seal	
47	Cable	H07RN-F

Dimensions



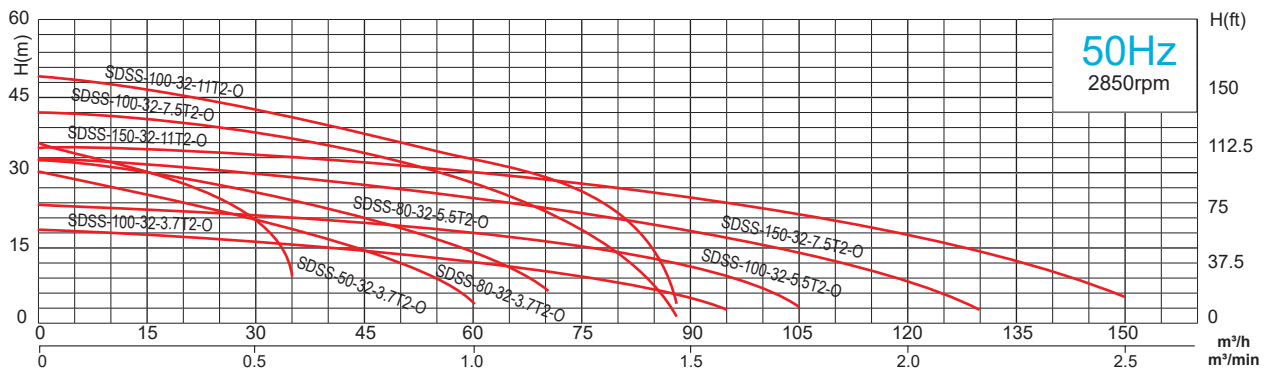
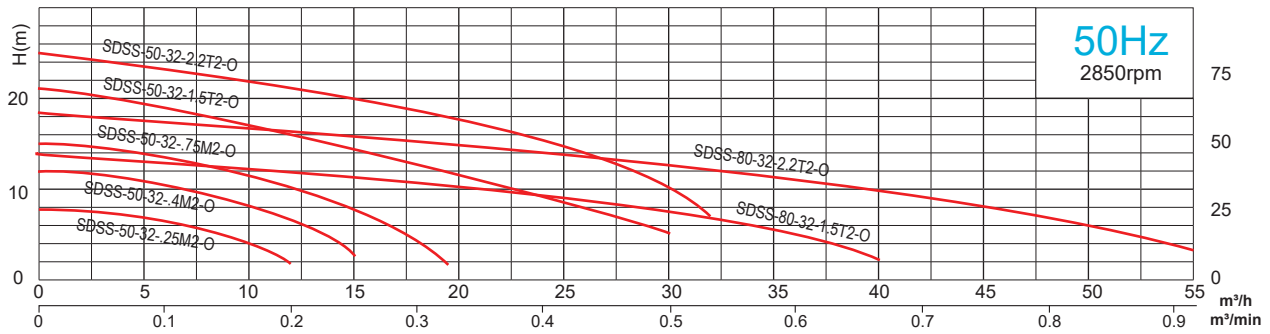
Model	H	B	Ømax	W1
SDSS-50-32-.25M2-O	345	342	184	50
SDSS-50-32-.4M2-O	345	342	184	50
SDSS-50-32-.75M2-O	365	362	184	50
SDSS-50-32-1.5T2-O	563	540	240	87
SDSS-80-32-1.5T2-O	563	547	240	87
SDSS-50-32-2.2T2-O	563	540	240	87
SDSS-80-32-2.2T2-O	563	547	240	87
SDSS-50-32-1.5T2-AP-O	613	590	240	87
SDSS-80-32-1.5T2-AP-O	613	597	240	87
SDSS-50-32-2.2T2-AP-O	613	590	240	87
SDSS-80-32-2.2T2-AP-O	613	597	240	87
SDSS-50-32-3.7T2-O	515	591	300	76
SDSS-80-32-3.7T2-O	515	591	300	76

Model	H	B	Ømax	W1
SDSS-100-32-3.7T2-O	515	616	300	76
SDSS-80-32-5.5T2-O	555	631	300	76
SDSS-100-32-5.5T2-O	555	656	300	76
SDSS-50-32-3.7T2-AP-O	565	641	300	76
SDSS-80-32-3.7T2-AP-O	565	641	300	76
SDSS-100-32-3.7T2-AP-O	565	666	300	76
SDSS-80-32-5.5T2-AP-O	605	681	300	76
SDSS-100-32-5.5T2-APO	605	706	300	76
SDSS-100-32-7.5T2-O	700	810	355	142
SDSS-150-32-7.5T2-O	700	810	355	142
SDSS-100-32-11T2-O	745	855	355	142
SDSS-150-32-11T2-O	745	855	355	142

B: The height from pump's bottom to outlet
H: Th height from pump's bottom to handle top

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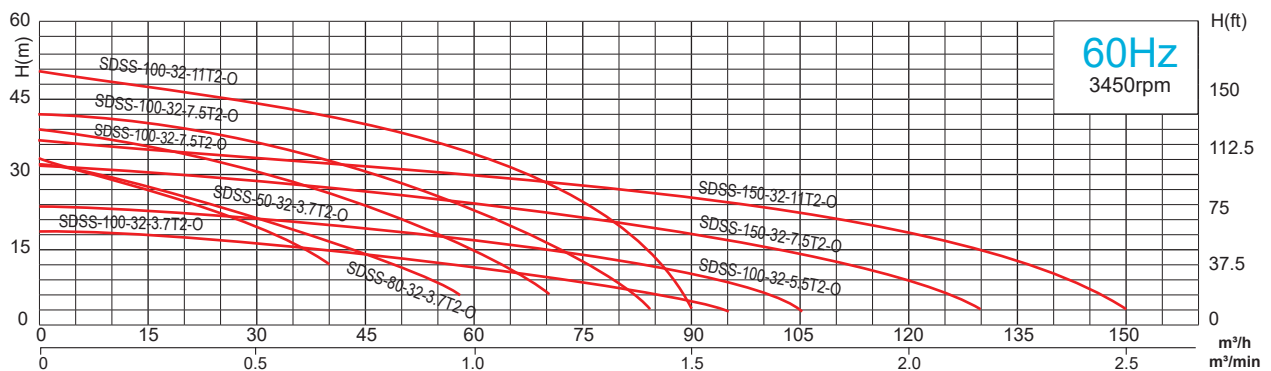
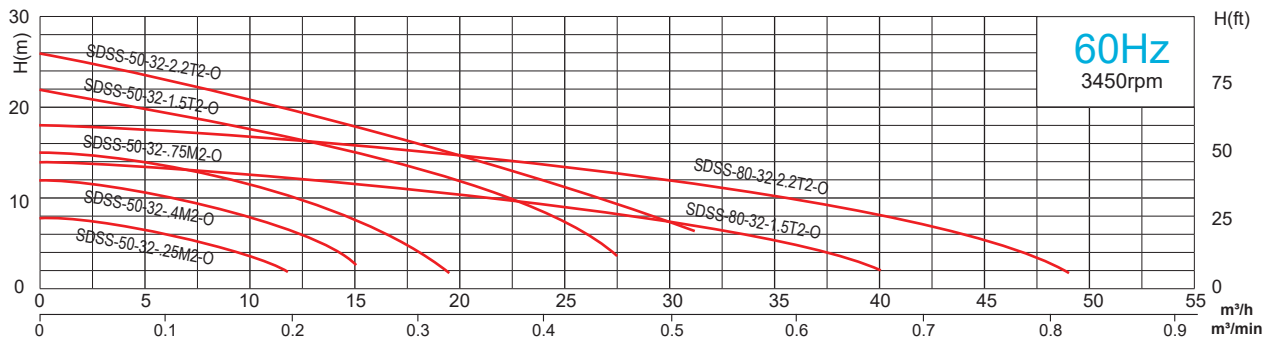
Performance curves



Model (50Hz)	Outlet	Motor Power		Voltage	Rated Current	Rated Capacity		Rated Head	Max Capacity		Max Head	Impeller Passage	N.W	G.W	Packing Dimension
	mm	kW	HP	V		A	m³/h		m³/min	m³/h					
SDSS-50-32-.25M2-O	50	0.25	0.35	220	2.0	6	0.1	7	12	0.2	8	6	14	15	385x225x250
SDSS-50-32-.25M2-O	50	0.4	0.55	220	3.0	8	0.13	10	14.5	0.24	12	6	15	16	385x225x250
SDSS-50-32-.75M2-O	50	0.75	1	220	5.0	10	0.17	12	19.5	0.32	15	6	17	18	405x225x250
SDSS-50-32-1.5T2-O	50	1.5	2	400	3.5	15	0.25	15	30	0.5	21	8.5	37	41	620x270x315
SDSS-50-32-1.5T2-AP-O	50	1.5	2	400	3.5	15	0.25	15	30	0.5	21	8.5	39	43	690x270x315
SDSS-80-32-1.5T2-O	80	1.5	2	400	3.5	27	0.45	9	42	0.7	14	8.5	37	41	620x270x315
SDSS-80-32-1.5T2-AP-O	80	1.5	2	400	3.5	27	0.45	9	42	0.7	14	8.5	39	43	690x270x315
SDSS-50-32-2.2T2-O	50	2.2	3	400	5.0	20	0.33	18	32	0.53	25	8.5	40	44	620x270x315
SDSS-50-32-2.2T2-AP-O	50	2.2	3	400	5.0	20	0.33	18	32	0.53	25	8.5	42	46	690x270x315
SDSS-80-32-2.2T2-O	80	2.2	3	400	5.0	36	0.6	11	55	0.92	18.5	8.5	40	44	620x270x315
SDSS-80-32-2.2T2-AP-O	80	2.2	3	400	5.0	36	0.6	11	55	0.92	18.5	8.5	42	46	690x270x315
SDSS-50-32-3.7T2-O	50	3.7	5	400	7.7	18	0.3	26	36	0.6	32	8.5	58	64	670x320x345
SDSS-50-32-3.7T2-AP-O	50	3.7	5	400	7.7	18	0.3	26	36	0.6	32	8.5	60	66	730x320x345
SDSS-80-32-3.7T2-O	80	3.7	5	400	7.7	35	0.58	18.5	60	1.0	29	8.5	58	64	670x320x345
SDSS-80-32-3.7T2-AP-O	80	3.7	5	400	7.7	35	0.58	18.5	60	1.0	29	8.5	60	66	730x320x345
SDSS-100-32-3.7T2-O	100	3.7	5	400	7.7	60	1.0	11.5	95	1.58	18	8.5	59	65	670x320x345
SDSS-100-32-3.7T2-AP-O	100	3.7	5	400	7.7	60	1.0	11.5	95	1.58	18	8.5	61	67	730x320x345
SDSS-80-32-5.5T2-O	80	5.5	7.5	400	11.4	45	0.75	22	72	1.2	35	8.5	66	72	710x320x355
SDSS-80-32-5.5T2-AP-O	80	5.5	7.5	400	11.4	45	0.75	22	72	1.2	35	8.5	68	74	770x320x355
SDSS-100-32-5.5T2-O	100	5.5	7.5	400	11.4	60	1.0	16	105	1.75	23	8.5	67	73	710x320x355
SDSS-100-32-5.5T2-APO	100	5.5	7.5	400	11.4	60	1.0	16	105	1.75	23	8.5	69	75	770x320x355
SDSS-100-32-7.5T2-O	100	7.5	10	400	15	60	1.0	26	88	1.47	41	11.5	108	120	894x394x455
SDSS-150-32-7.5T2-O	150	7.5	10	400	15	80	1.33	20.5	130	2.17	32	19.5	110	122	894x394x455
SDSS-100-32-11T2-O	100	11	15	400	22	60	1.0	32	86.4	1.44	48.5	11.5	123	135	954x394x455
SDSS-150-32-11T2-O	150	11	15	400	22	90	1.5	25	150	2.5	34	19.5	125	137	954x394x455

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Performance table



Model (60Hz)	Outlet	Motor Power		Voltage	Rated Current	Rated Capacity		Rated Head	Max Capacity		Max Head	Impeller Passage	N.W	G.W	Packing Dimension
	mm	kW	HP			V	A		m³/h	m³/min					
SDSS-50-32-.25M2-O	50	0.25	0.35	220	2.0	6	0.1	7	12	0.20	8	6	14	15	385x225x250
SDSS-50-32-.25M2-O	50	0.4	0.55	220	3.0	8	0.13	10	14.5	0.24	12	6	15	16	385x225x250
SDSS-50-32-.75M2-O	50	0.75	1	220	5.0	10	0.17	12	19.5	0.32	15	6	17	18	405x225x250
SDSS-50-32-1.5T2-O	50	1.5	2	400	3.5	15	0.25	15	27	0.45	22	8.5	37	41	620x270x315
SDSS-50-32-1.5T2-AP-O	50	1.5	2	400	3.5	15	0.25	15	27	0.45	22	8.5	39	43	690x270x315
SDSS-80-32-1.5T2-O	80	1.5	2	400	3.5	27	0.45	9	42	0.70	14	8.5	37	41	620x270x315
SDSS-80-32-1.5T2-AP-O	80	1.5	2	400	3.5	27	0.45	9	42	0.70	14	8.5	39	43	690x270x315
SDSS-50-32-2.2T2-O	50	2.2	3	400	5.0	20	0.33	18	31	0.52	26	8.5	40	44	620x270x315
SDSS-50-32-2.2T2-AP-O	50	2.2	3	400	5.0	20	0.33	18	31	0.52	26	8.5	42	46	690x270x315
SDSS-80-32-2.2T2-O	80	2.2	3	400	5.0	30	0.50	11	47	0.92	19	8.5	40	44	620x270x315
SDSS-80-32-2.2T2-AP-O	80	2.2	3	400	5.0	30	0.50	11	47	0.92	19	8.5	42	46	690x270x315
SDSS-50-32-3.7T2-O	50	3.7	5	400	7.7	18	0.30	26	42	0.70	32	8.5	58	64	670x320x345
SDSS-50-32-3.7T2-AP-O	50	3.7	5	400	7.7	18	0.30	26	42	0.70	32	8.5	60	66	730x320x345
SDSS-80-32-3.7T2-O	80	3.7	5	400	7.7	35	0.58	18.5	57	0.95	31	8.5	58	64	670x320x345
SDSS-80-32-3.7T2-AP-O	80	3.7	5	400	7.7	35	0.58	18.5	57	0.95	31	8.5	60	66	730x320x345
SDSS-100-32-3.7T2-O	100	3.7	5	400	7.7	60	1.0	11.5	95	1.58	18	8.5	59	65	670x320x345
SDSS-100-32-3.7T2-AP-O	100	3.7	5	400	7.7	60	1.0	11.5	95	1.58	18	8.5	61	67	730x320x345
SDSS-80-32-5.5T2-O	80	5.5	7.5	400	11.4	45	0.75	22	69	1.15	38	8.5	66	72	710x320x355
SDSS-80-32-5.5T2-AP-O	80	5.5	7.5	400	11.4	45	0.75	22	69	1.15	38	8.5	68	74	770x320x355
SDSS-100-32-5.5T2-O	100	5.5	7.5	400	11.4	60	1.0	16	105	1.75	23	8.5	67	73	710x320x355
SDSS-100-32-5.5T2-APO	100	5.5	7.5	400	11.4	60	1.0	16	105	1.75	23	8.5	69	75	770x320x355
SDSS-100-32-7.5T2-O	100	7.5	10	400	15	60	1.0	26	84	1.40	40	11.5	108	120	894x394x455
SDSS-150-32-7.5T2-O	150	7.5	10	400	15	80	1.33	20.5	130	2.17	32	19.5	110	122	894x394x455
SDSS-100-32-11T2-O	100	11	15	400	22	60	1.0	32	89	1.48	50	11.5	123	135	954x394x455
SDSS-150-32-11T2-O	150	11	15	400	22	90	1.5	25	150	2.50	36	19.5	125	137	954x394x455

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Aquaplus Product Range

ESD Series – End Suction DIN (24255) Pumps

ESI Series – End Suction ISO (2585) Pumps

SP Series – Self Priming Pumps

SD Series – Submersible Dewatering Pumps

SS Series – Submersible Sewerage Pumps

AD Series – Air Diaphragm Pumps

MS Series – Mechanical Seals (Single Spring & Cartridge)

The logo for Aquaplus, featuring the word "Aquaplus" in a stylized blue font with a wave-like underline.

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For information on these products or for any specialised requirements please contact your local Aquaplus distributor or visit our website at www.aquapluspumps.com.au