

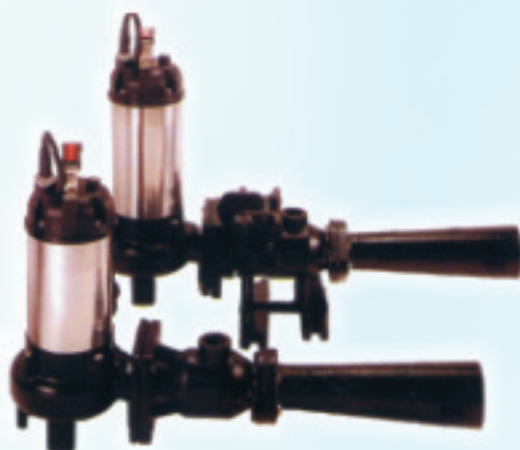


Mapcato Pumps

J» SERIES 50 Hz **Submersible Pumps**



www.mapcato.com



JA SERIES

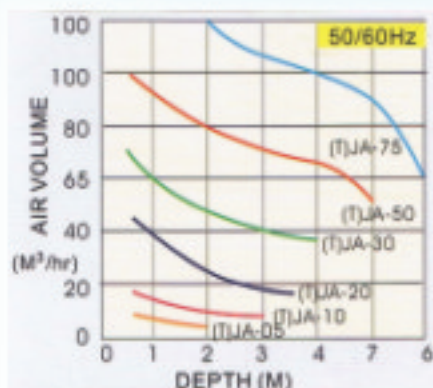
Feature :

- High oxygen transfer rate, BOD easy to remove from wastewater treatment.)
- Mixing and stirring applications for uniform MLSS due to fine bubbles convention

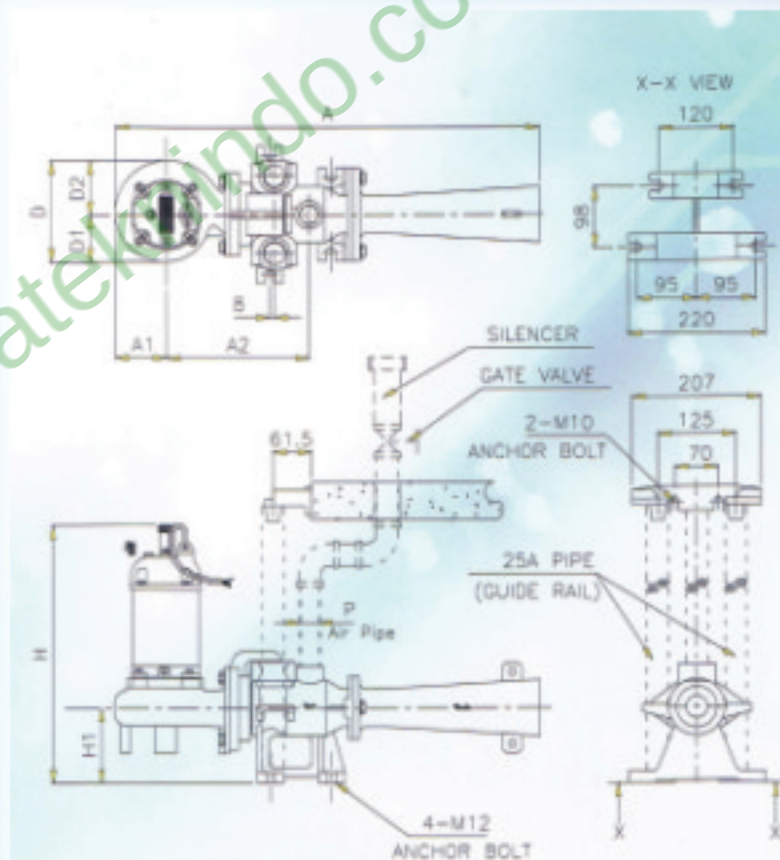
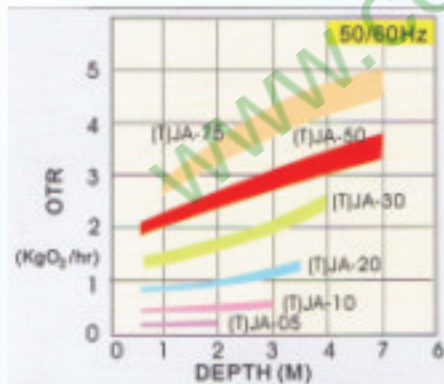
Application :

- The wastewater treatment aeration and agitation for any kinds of factories.

Performance Curve



Performance Curve



Specifications

Model	HP	Rated			Aeration Tank			Deminsion (mm)									
		Air (M³/hr)	OTR (Kg-O₂/hr)	HR (M)	L (M)	W (M)	H (M)	A	A1	A2	D	D1	D2	H	H1	P	(Kg)
(T) JA-05	½	5	0.12~0.23	1.5	2	1.8	2	648 (679)	100	198 (229)	163	76	87	410 (458)	72 (120)	25A	23 (33)
(T) JA-10	1	10	0.3~0.5	2	3	2.5	3	648 (679)	100	198 (229)	163	76	87	430 (478)	72 (120)	25A	31 (41)
(T) JA-20	2	22	0.9~1.1	2.5	4	3.5	3.5	721 (752)	110	250 (281)	205	100	105	540 (588)	72 (120)	40A	40 (50)
(T) JA-30	3	40	1.9~2.2	3	5	4.5	4	721 (752)	110	250 (281)	205	100	105	580 (628)	72 (120)	40A	42 (52)
(T) JA-50	5	70	2.8~3.3	3.5	6	5	5	742 (773)	125	258 (289)	230	110	120	620 (640)	100 (120)	40A	52 (64)
(T) JA-75	7 ½	100	2.8~3.3	4.0	7	6	6	742 (773)	125	258 (289)	230	110	120	660 (680)	140 (160)	40A	58 (70)

*(T)-with live out rail system.

JDS/JSB (ALL # 316 SST) SERIES

Feature :

- Non-clogging, minimized abrasive wear, large impeller clearance, and maintenance free

Application :

- Medium concentration wastewater, heavy duty, JSB type is suitable for PH 3-11 wastewater.
- JSB type is also for sea water.

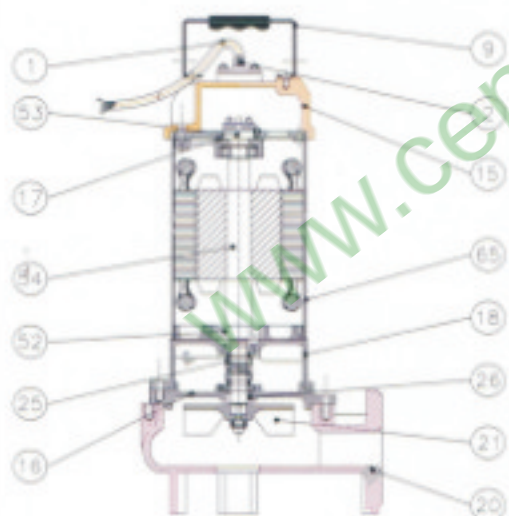


High circulation impeller



Constructions

NO	PART	MTRL	
		JDS	JSB
1	Cable	VCT	VCT
2	Cable Hood	PVC	PVC
9	Handle	SUS 304	SUS 304
15	Motor Cover	FC 200	SUS 316
16	Seal Housing	FC 200	SUS 316
17	Bracket	FC 200	FC 200
18	Oil Chamber	FC 200	SUS 316
20	Pump Casing	FC 200	SUS 316
21	Impeller	FC 200	SUS 316
25	Mech. Seal	CA/CE (EKK)	Sic/Sic (EKK)
26	Oil Seal	NBR	VITON
52	Bearing	(NTN)	(NTN)
53	Protector	(T.I./YAMADA)	(T.I./YAMADA)
54	Shaft	SUS 410	SUS 316
65	Motor Housing	SUS 304	SUS 316



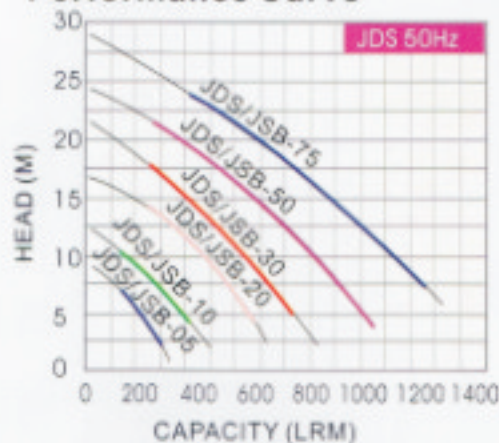
Specifications

Model	Output	Dis.	Phase	Head	Capacity	Cable
	HP	mm	φ	M	LPM	M
JDS(JSB)-05	½	50	1,3	6	160	5
JDS(JSB)-10	1	50(80)	1,3	9	200	5
JDS(JSB)-20	2	50(80)	1,3	15~10	200~400	5
JDS(JSB)-30	3	50(80)	3	15~11	300~500	5
JDS(JSB)-50	5	80(100)	3	16~10	500~800	10
JDS(JSB)75	7 ½	80(100)	3	20~12	500~1000	10

Note1 : Automatic models are available in single-phase versions.

Note2 : Q.D.C. (Quick Discharge Connection) is applied in all models.

Performance Curve





Tungsten edge

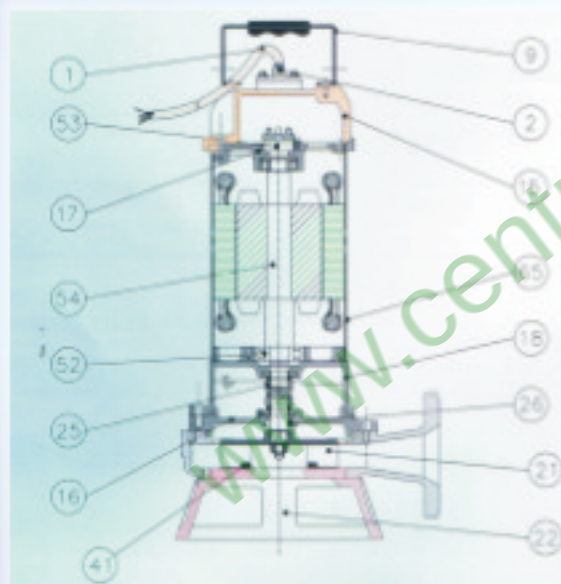
JDSK SERIES

Feature :

- Tipped with tungsten cutter to cut off foreign objects and prevent from clogging

Application :

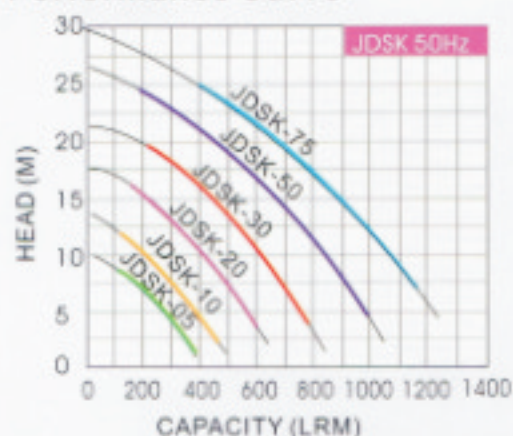
- Hospital, School, Building ...etc.
- Wastewater treatment system : Industrial wastewater and ground water drainage.



Constructions

NO	PART	MTRL
1	Cable	VCT
2	Cable Hood	PVC
9	Handle	SUS 304
15	Motor Cover	FC 200
16	Seal Housing	FC 200
17	Bracket	FC 200
18	Oil Chamber	FC 200
20	Pump Casing	FC 200
21	Impeller	FC 200
22	Strainer	SUS 450
25	Mech. Seal	CA/CE (EKK)
26	Oil Seal	VITON
41	Cutter Edge	Tungsten
52	Bearing	NTN
53	Protector	(T.I./YAMADA)
54	Shaft	SUS 410
65	Motor Housing	SUS 304

Performance Curve



Specifications

Model	Output	Dis.	Phase	BEP (Best Ef. Point)		Cable
				Head	Capacity	
	HP	mm	φ	M	LPM	M
JDSK-05	1/4	50	1,3	6	150	5
JDSK-10	1	50(80)	1,3	7.5	250	5
JDSK-20	2	50(80)	1,3	10	400	5
JDSK-30	3	50(80)	3	13	500	5
JDSK-50	5	80(100)	3	16	600	10
JDSK-75	7 1/2	80(100)	3	15	800	10

Note1 : Automatic models are available in single-phase versions.

Note2 : Q.D.C. (Quick Discharge Connection) is applied in all models.

JKD SERIES

Feature :

- Vortex Impeller attached with agitator, reliable silicon mechanical seal

Application :

- Dredging, high concentration slurry.

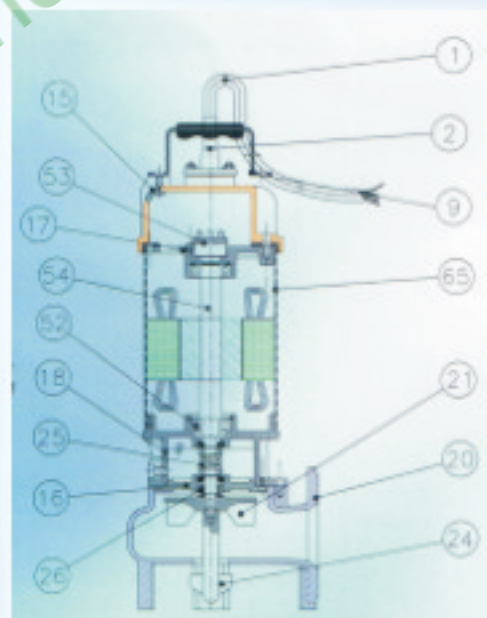


Powerful agitator



Constructions

NO	PART	MTRL
1	Cable	VCT
2	Cable Hood	PVC
9	Handle	SUS 304
15	Motor Cover	FC 200
16	Seal Housing	FC 200
17	Bracket	FC 200
18	Oil Chamber	FC 200
20	Pump Casing	FC 200
21	Impeller	FC 200
24	Agitator	SUS 316
25	Mech. Seal	Sic/Sic (EKK)
26	Oil Seal	VITON
52	Bearing	NTN
53	Protector	(T.I./YAMADA)
54	Shaft	SUS 410
65	Motor Housing	SUS 304



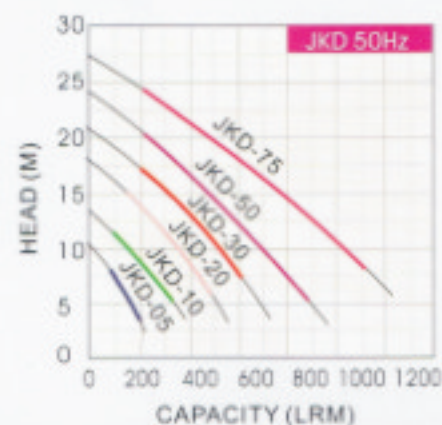
Specifications

Model	Output	Dis.	Phase	BEP (Best Ef. Point)		Cable
				Head	Capacity	
	HP	mm	φ	M	LPM	M
JKD-05	1/2	50	1,3	6	100	5
JKD-10	1	50(80)	1,3	9	150	5
JKD-20	2	50(80)	1,3	15~10	150~300	5
JKD-30	3	50(80)	3	15~11	250~400	5
JKD-50	5	80(100)	3	16~10	400~600	10
JKD-75	7 1/2	80(100)	3	20~12	400~800	10

Note1 : Automatic models are available in single-phase versions.

Note2 : Q.D.C. (Quick Discharge Connection) is applied in all models.

Performance Curve



JKS SERIES

Feature :

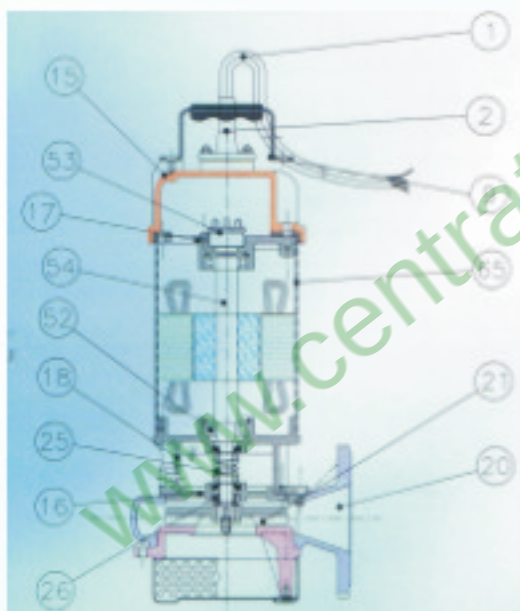
- Compact size, modular design, light weighted, easy operation and high quality

Application :

- Light duty, basement drainage, rainwater effluent and accumulated water drainage

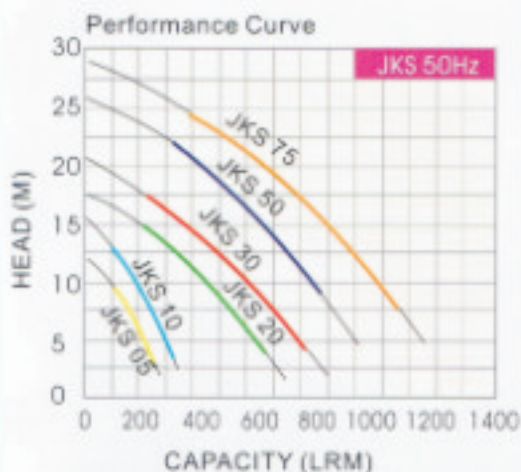


High efficiency impeller



Constructions

NO	PART	MTRL
1	Cable	VCT
2	Cable Hood	PVC
9	Handle	SUS 304
15	Motor Cover	FC 200
16	Seal Housing	FC 200
17	Bracket	FC 200
18	Oil Chamber	FC 200
20	Pump Casing	FC 200
21	Impeller	FC 200
22	Strainer	SUS 304
25	Mech. Seal	CA/CE (EKK)
26	Oil Seal	NBR
52	Bearing	NTN
53	Protector	(T.I./YAMADA)
54	Shaft	SUS 410
65	Motor Housing	SUS 304



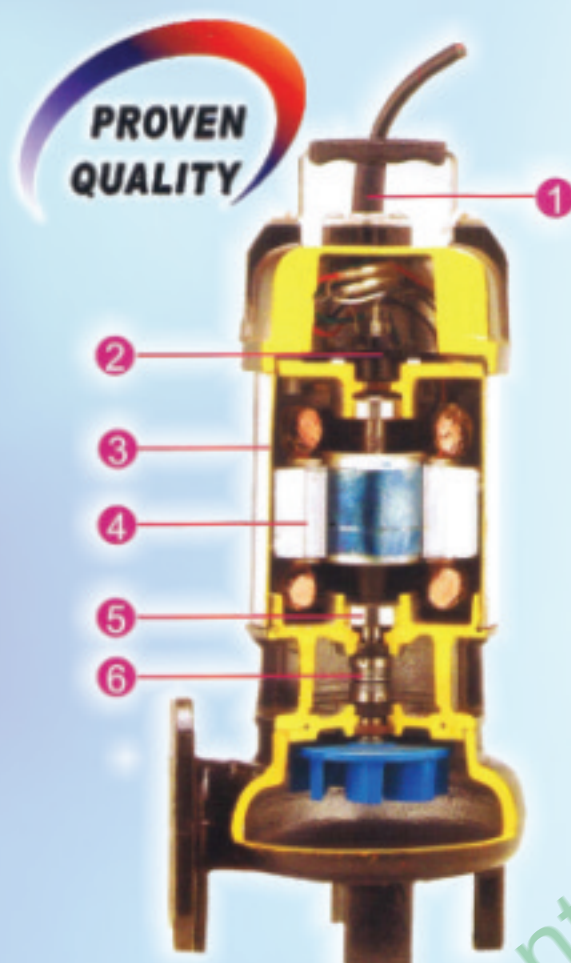
Specifications

Model	Output	Dis.	Phase	BEP (Best Ef. Point)		Cable
				Head	Capacity	
	HP	mm	φ	M	LPM	M
JKS-05	½	50	1,3	6	150	5
JKS-10	1	50(80)	1,3	9	200	5
JKS-20	2	50(80)	1,3	15~10	200~400	5
JKS-30	3	50(80)	3	15~11	300~500	5
JKS-50	5	80(100)	3	16~10	500~800	10
JKS-75	7 ½	80(100)	3	20~12	500~1000	10

Note1 : Automatic models are available in single-phase versions.

Note2 : Q.D.C. (Quick Discharge Connection) is applied in all models.

Modular Design: Robust Submersible Platform Motor



- 1 Water-proof Cable:**
Epoxy potting for self-contained core sealer
- 2 Motor Protector:**
Built-in protectors preventing motors from burnout due to abnormal operation
- 3 Anti-corrosive Motor Housing:**
Made of stainless steel, high-resistance to corrosion
- 4 High-Efficiency Motor:**
Specially designed submersible motor with F class insulation and low temperature rise
- 5 C3 Clearance Bearing:**
Deep groove bearing with C3 clearance, running life more than 50,000 hours
- 6 High-reliability Shaft Sealing:**
Back-to back double mechanical seals in the separate oil chamber, oil seal equipped at pressure side

Applications:

Model	Type	Output	Impeller	Spherical clearance
JDSK	Cutter Pumps	0.4~3.7 kW	Semi-open/TC cutter	22~28 mm
JDS	Non-clog Pumps	0.4~5.5 kW	Vortex	35~50 mm
JKD	Dredging Pumps	0.4~5.5 kW	Vortex	15~35 mm

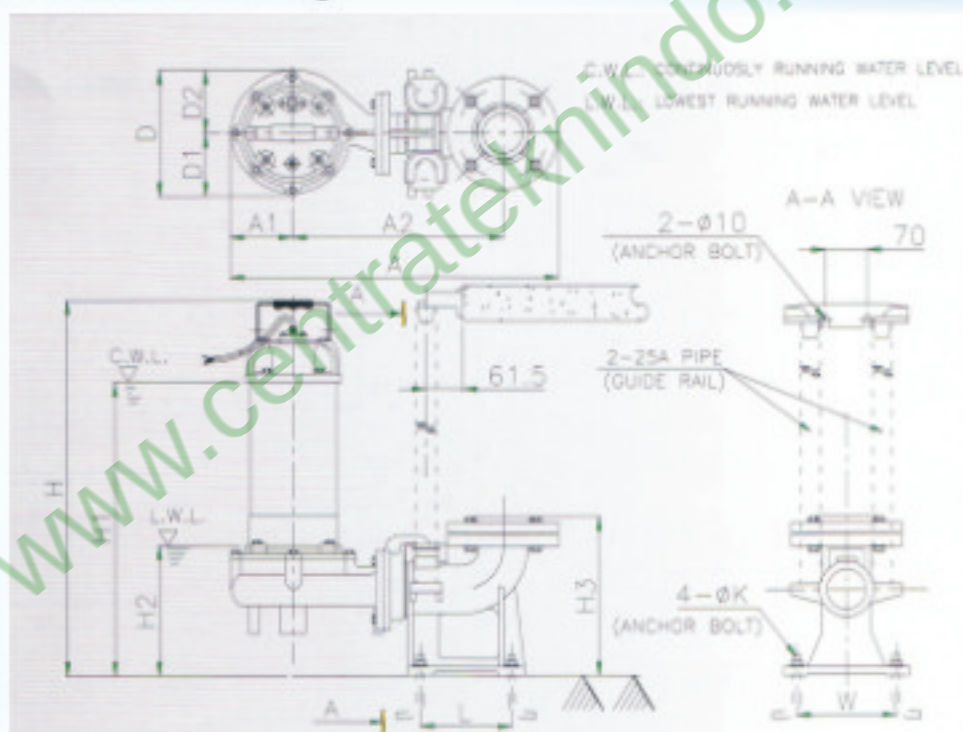
USER CATEGORIES	JDS	JDSK	JKD
Breweries	•	•	
Canneries	•	•	
Chemical Ind.	•	•	
Construction	•		•
Dredging			•
Environmental Ind.	•	•	•
Food Processing	•	•	
Hotel Restaurant	•	•	
Laather Ind.	•	•	
Mines	•		•
Paper Mill	•		
Petrolchemical Ind.	•	•	
Power Plant	•		•
Quarries	•		•
Refineries	•	•	
Rolling Mills			•
Rubber Ind.	•		
Sewage Treatment	•	•	•
Steel Works	•		•
Sugar Factories	•		
Textile Mills	•	•	
Electronics	•		•

USER CATEGORIES	JDS	JDSK	JKD
Abrasive	•		•
Activated sludge		•	
Aggressive media	•		
Cement			•
Chicken feather	•		
Circulation water	•		
Coal washing water	•		•
Digester sludge	•		
Fly ash	•		•
Gassy sludge	•		
Grinding dust			•
Ground water	•	•	
Harbor sludge	•		•
Oil residues	•		•
Paper pulp	•		
Primary sludge	•		
Process water	•		
Sand, lime sludge			•
Sewage	•	•	
Sludge circulation	•		•
Viscous media	•		
Waste Water	•	•	

Quick Discharge Connection for Submersible pumps



Dimension Drawing



Dimension Table

Q.D.C.	Discharge		Pump		DIMENSION (UNIT:mm)												
	mm	Inch	kW	HP	A	A1	A2	D	D1	D2	H	H1	H2	H3	L	W	K
TOS-50(80)	50	2"	0.4	½	475	80	300	165	77	78	460	360	190	267	150	180	14
	50(80)	2"(3")	0.75	1	475	80	300	165	77	78	490	390	190	267	150	180	14
	50(80)	2"(3")	1.5	2	550	103	350	210	105	105	600	470	216	360	150	180	14
	50(80)	2"(3")	2.2	3	550	103	350	210	105	105	620	490	216	360	150	180	14
TOL-80(100)	80(100)	3"(4")	3.7	5	690	125	460	250	117	133	730	585	265	360	230	250	18
	80(100)	3"(4")	5.5	7.5	690	125	460	250	117	133	770	625	265	360	230	250	18

Note: TOS-50(80), TOLB-80(100) are Stainless 316.