



EBARA

Certified System
Quality
ISO 9001
SAI GLOBAL
Certified by UAECC0096

DS/DVS13CT-R0E

D'SERIES SUBMERSIBLE PUMPS

Model DS / DVS

50Hz

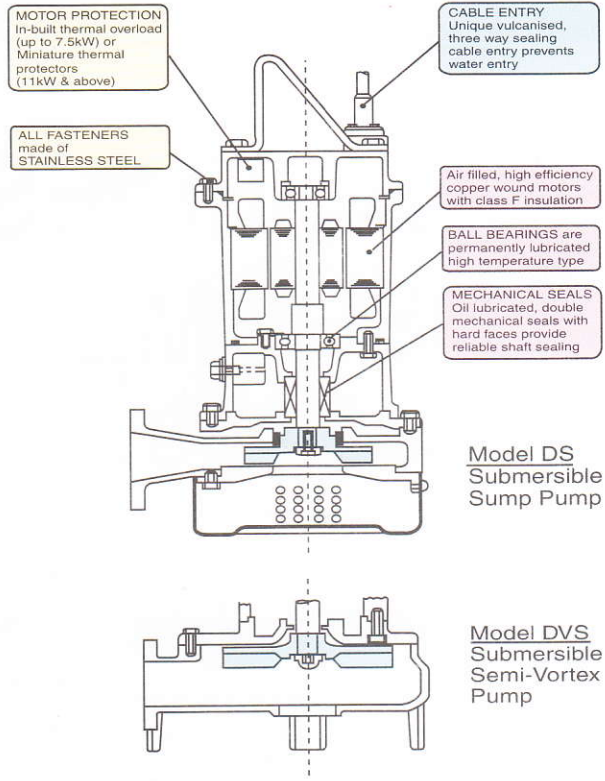


DS & DVS SUBMERSIBLE PUMPS

For Sump and Sewage

A comprehensive range of Reliable, High quality Submersible pumps.

Of Robust Cast iron construction, with many design features.



Model DS

Features

- Efficient Semi-Open Impeller.
- Strainer prevents blockages.

Applications

- Purification tank drainage
- Rain and spring water drainage
- Water supply

Model DVS

Features

- Semi-Vortex Impeller offers non-clog operation and allows pumping of foreign matter up to 60-70% of discharge size.
- Easy Maintenance.

Applications

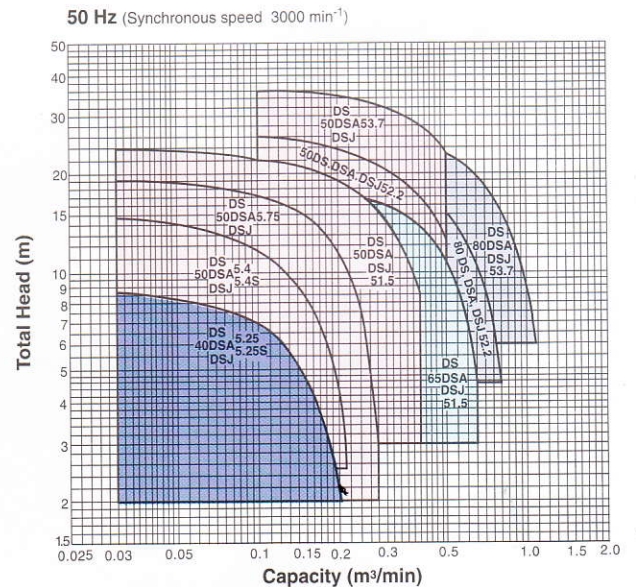
- Ideal for waste water applications containing soft or fibrous solids
- Industrial waste water drainage
- Septic effluent
- Miscellaneous drainage

Specifications

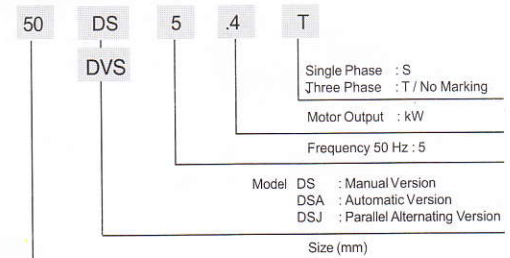
Description		Pump	
Model		DS	DVS
No. of Pole		2	2
Liquid Handled	Type of liquid	Sump	River water, Sewage
	Temperature	0°C - 40°C for DS, DSA 0°C - 32°C for DSJ	0°C - 40°C for DVS, DVSA 0°C - 32°C for DVSJ
	Maximum solids size	40DS : 3 mm, 50DS : 5mm, 65DS : 6mm, 80DS : 7 mm	40DVS : 25 mm, 50DVS : 32 mm, 65(80)DVS : 45 mm
Maximum Submergence		0.4 1.5 kW = 4 m; 2.2 3.7 kW = 8 m	0.4 1.5 kW = 4 m; 2.2 3.7 kW = 8 m
Minimum Submergence		Refer to water level (L.W.L) in Dimensions	Refer to water level (L.W.L) in Dimensions
Synchronous speed		3000 min ⁻¹	3000 min ⁻¹
Construction	Mechanical Seal	Double Mechanical Seal	Double Mechanical Seal
	Impeller	Semi-open	Semi-vortex
	Bearing	Pre-lubricated bearing	Pre-lubricated bearing
Material	Casing	Cast Iron	Cast Iron
	Impeller	Cast Iron	Cast Iron
	Shaft	403 Stainless Steel	403 Stainless Steel
	Mechanical Impeller side	Silicon carbide vs Silicon carbide	Silicon carbide vs Silicon carbide
	Seal Motor side	Ceramic vs Carbon	Ceramic vs Carbon
	Packing	NBR	NBR
Motor			
Type	2 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in overload protector		
Accessories			
Standard	Special Companion flange cast iron with bolts: 40-50 DVS 1.5, Submersible cable : 0.4 - 1.5 kW = 6 m; 2.2 - 3.7 kW = 10m. Float switch for DSA, DSJ		
Optional	Quick discharge connector		

Model DS

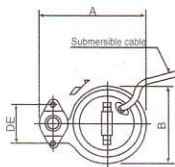
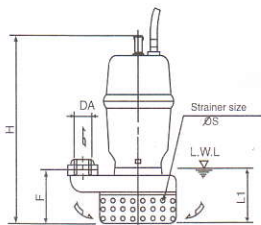
Selection Charts



Model Code



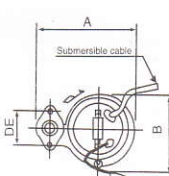
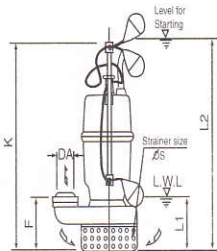
Manual type



Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	H	DE	S	L1	
40	40DS5.25S	0.25	Single	219	156	80	358	80	7	85	12
	40DS5.25	0.25	Three	219	156	80	358	80	7	85	12
50	50DS5.4S	0.4	Single	260	186	99	433	96	8	110	17
	50DS5.4	0.4	Three	260	186	99	396	96	8	110	16
	50DS5.75	0.75	Three	260	186	99	396	96	8	110	17
	50DS5.75	0.75	Three	260	186	99	396	96	8	110	17
	50DS5.1.5	1.5	Three	266	200	115	450	96	10	120	25

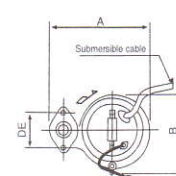
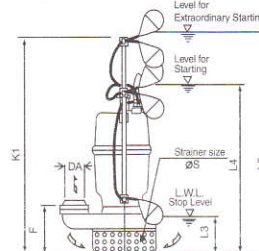
Automatic type



Unit : mm

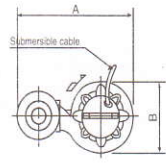
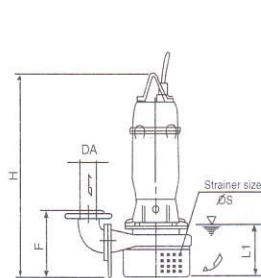
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	
				A	B	F	DE	S	K	L1		L2
40	40DSA5.25S	0.25	Single	219	185	80	80	7	530	150	490	13
	40DSA5.25	0.25	Three	219	185	80	80	7	530	150	490	13
50	50DSA5.4S	0.4	Single	260	200	99	96	8	530	150	490	18
	50DSA5.4	0.4	Three	260	200	99	96	8	530	150	490	17
	50DSA5.75	0.75	Three	260	200	99	96	8	530	150	490	18
	50DSA5.75	0.75	Three	260	200	99	96	8	530	150	490	18
	50DSA1.5	1.5	Three	266	207	115	96	10	530	150	490	26

Parallel Alternate type



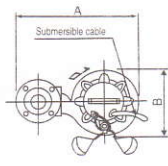
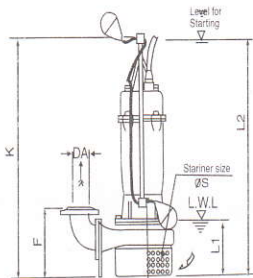
Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg		
				A	B	F	DE	S	K1	L3		L4	L5
40	40DSJ5.26S	0.25	Single	219	185	80	80	7	640	120	410	600	14
	40DSJ5.25	0.25	Three	219	185	80	80	7	640	120	410	600	14
50	50DSJ5.4S	0.4	Single	260	200	99	96	8	640	120	410	600	18
	50DSJ5.4	0.4	Three	260	200	99	96	8	640	120	410	600	17
	50DSJ5.75	0.75	Three	260	200	99	96	8	640	120	410	600	18
	50DSJ5.75	0.75	Three	260	200	99	96	8	640	120	410	600	18
	50DSJ5.1.5	1.5	Three	268	207	115	96	10	640	120	410	600	27



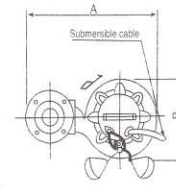
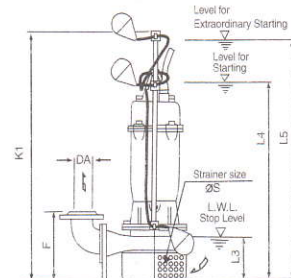
Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	H	S	L1		
50	50DS5.2	2.2	Three	433	245	198	619	10	160	55	
	50DS5.3.7	3.7	Three	433	245	198	619	10	160	61	
65	65DS5.1.5	1.5	Three	407	210	197	503	10	120	35	
	80DS5.2.2	2.2	Three	503	268	215	625	10	160	59	
80	80DS5.3.7	3.7	Three	503	268	215	625	10	160	64	



Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	S	K	L1	L2	
50	50DSA5.2.2	2.2	Three	433	248	198	10	800	270	760	61
	50DSA5.3.7	3.7	Three	433	248	198	10	800	270	760	67
65	65DSA5.1.5	1.5	Three	407	210	197	10	530	150	490	36
	80DSA5.2.2	2.2	Three	503	268	215	10	800	270	760	65
80	80DSA5.3.7	3.7	Three	503	268	215	10	800	270	760	70

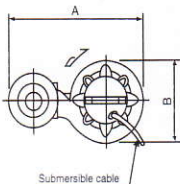
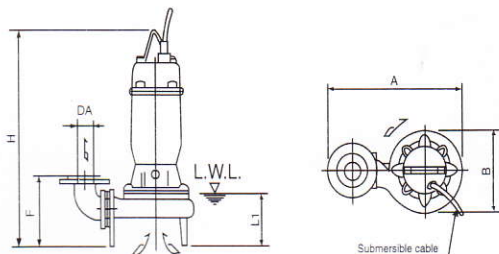
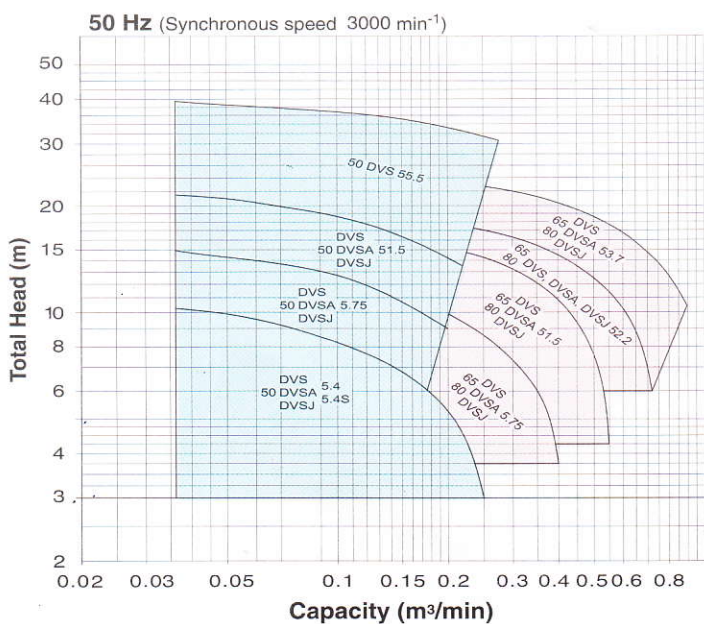


Unit : mm

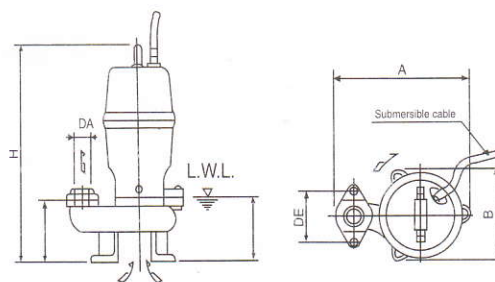
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	
				A	B	F	S	K1	L3	L4		L5
50	50DSJ5.2.2	2.2	Three	433	248	198	10	910	240	680	870	62
	50DSJ5.3.7	3.7	Three	433	248	198	10	910	240	680	870	67
65	65DSJ5.1.5	1.5	Three	407	210	197	10	640	120	410	600	36
	80DSJ5.2.2	2.2	Three	503	268	215	10	910	240	680	870	65
80	80DSJ5.3.7	3.7	Three	503	268	215	10	910	240	680	870	70

Model DVS

Selection Charts



Manual type



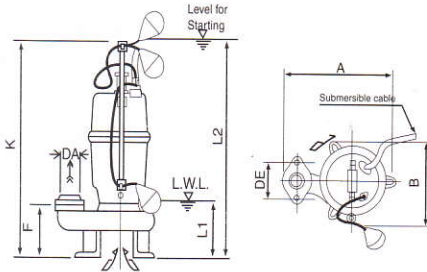
Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor					Weight (Mass) kg	
				A	B	F	H	L1		
50	50DVS5.4S	0.4	Single	239	160	82	435	96	105	18
	50DVS5.4	0.4	Three	239	160	82	398	96	105	17
	50DVS5.75	0.75	Three	249	171	82	400	96	105	19
	50DVS1.5	1.5	Three	249	171	82	440	96	105	19

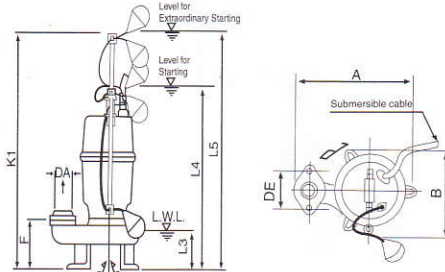
Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor					Weight (Mass) kg
				A	B	F	H	L1	
50	50DVS55.5	5.5	Three	444.5	234	161	676	105	75
	65DVS5.75	0.75	Three	396	195	178	503	125	25
	65DVS5.1.5	1.5		396	195	178	521	125	24
65DVS5.2.2	2.2	427		227	201	643	155	50	
65	65DVS5.3.7	3.7	Three	427	227	201	643	155	59
	80DVS5.75	0.75		411	195	183	503	125	26
	80DVS5.1.5	1.5		411	195	183	521	125	35
	80DVS5.2.2	2.2		442	227	206	643	155	51
	80DVS5.3.7	3.7		442	227	206	643	155	60

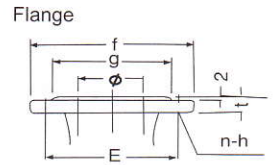
Automatic type



Parallel Alternate type



Flange Dimensions



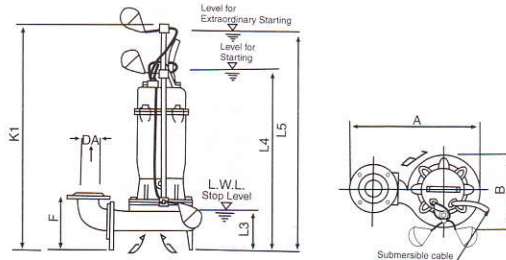
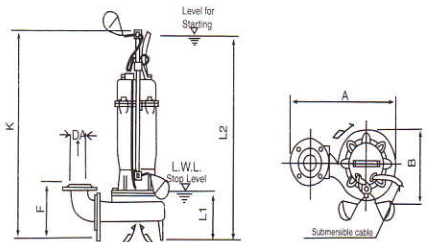
Unit: mm							
phi	e	f	g	t	n	h	
50	120	155	100	18	4	15	
65	140	175	120	18	4	15	
80	150	185	130	18	8	15	
100	175	210	155	20	8	15	
150	240	280	215	22	8	19	
200	290	330	265	24	12	19	
250	355	400	325	30	12	25	
300	400	445	370	32	16	25	

Size	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	DE	K	L1	L2		
50	50DVSAS4S	0.4	Single	239	183	82	96	530	150	490	20	
	50DVSAS4	0.4	Three	239	183	82	96	530	150	490	18	
	50DVSAS75	0.75	Three	249	197	82	96	530	150	490	20	
	50DVSAS15	1.5	Three	249	201	82	96	530	150	490	30	

Size	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	DE	K1	L3	L4	L5	
50	50DVSJS4S	0.4	Single	239	183	82	96	530	120	410	600	20
	50DVSJS4	0.4	Three	239	183	82	96	530	120	410	600	19
	50DVSJS75	0.75	Three	249	197	82	96	530	120	410	600	20
	50DVSJS15	1.5	Three	249	201	82	96	530	120	410	600	30

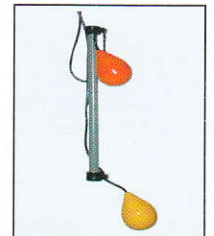
Float Switch

FLOAT SWITCH	
Model	CDL024060 A
Temperature	0~50°C
Function of contact	Up = ON Down = OFF
Voltage	AC 24V DC 24V
Max Current	AC 0.5A DC 0.5A
Contact Capacity	AC 10 VA DC 10 VA
Lead Wire	2x0.2mm²x6m



Size	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	H	J	K	L1	L2	
65	65DVSAS75	0.75	Three	396	206	178	540	145	530	150	490	26
	65DVSAS15	1.5		396	210	178	572	145	530	150	490	35
	65DVSAS22	2.2		427	237	201	736	160	770	250	730	51
	65DVSAS37	3.7		427	237	201	796	160	770	250	730	60
80	80DVSAS75	0.75	Three	411	206	183	540	145	530	150	490	27
	80DVSAS15	1.5		411	210	183	572	145	530	150	490	36
	80DVSAS22	2.2		442	237	206	736	160	770	250	730	52
	80DVSAS37	3.7		442	237	206	796	160	770	250	730	61

Size	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	K1	L3	L4	L5		
65	65DVSJS75	0.75	Three	396	206	178	640	120	410	600	26	
	65DVSJS15	1.5		396	210	178	640	120	410	600	35	
	65DVSJS22	2.2		427	237	201	880	220	650	840	51	
	65DVSJS37	3.7		427	237	201	880	220	650	840	60	
80	80DVSJS75	0.75	Three	411	206	183	640	120	410	600	27	
	80DVSJS15	1.5		411	210	183	640	120	410	600	36	
	80DVSJS22	2.2		442	237	206	880	220	650	840	52	
	80DVSJS37	3.7		442	237	206	880	220	650	840	61	



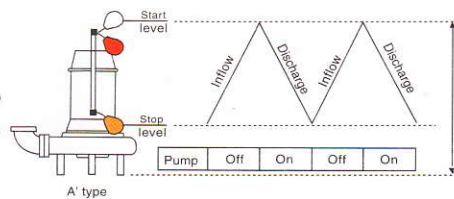
Options

Automatic Operation ("A", "J" type)

All models up to 3.7kW are available as automatic (A' type) or parallel alternating (J' type) pumps with inbuilt control devices and float switches. There is no need for an external control panel, and operation can begin as soon as the pumps are installed and connected to a power source.

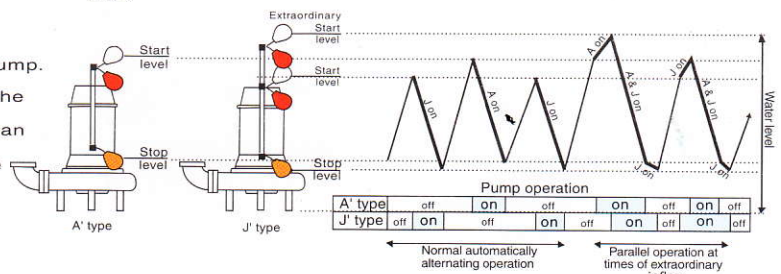
Single Pump Installation ("A" type)

A single automatic (A' type) pump is installed in the sump. The pump automatically starts when the water level in the sump reaches the "start level", and stops when the pump has lowered the water level to the "stop level".



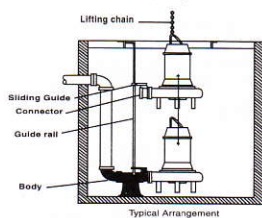
Duplex Pump Installation ("A" & "J" type)

Two pumps, one A' type and one J' type are installed in the sump. In normal operating conditions, operation alternates between the two pumps. In times of extraordinary inflow (inflow is greater than the capacity of a single pump), then the two pumps will operate together in parallel operation.



Quick Discharge Connection (QDC)

An optional quick discharge connector is available to suit all Ebara D-series submersible pumps, allowing easy removal and replacement of the pumps for maintenance purposes without having to enter the sump.



- Note:
- (1) Full details of the A' type, J' type and QDC dimensions are available in the respective model's Technical Data.
 - (2) All specifications subject to change without prior notice.



Distributor / Dealer