



EBARA



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

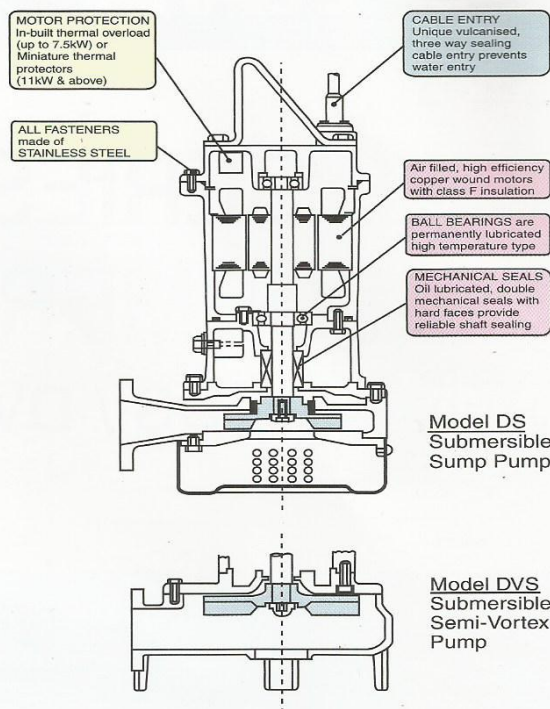
- Model DVS

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

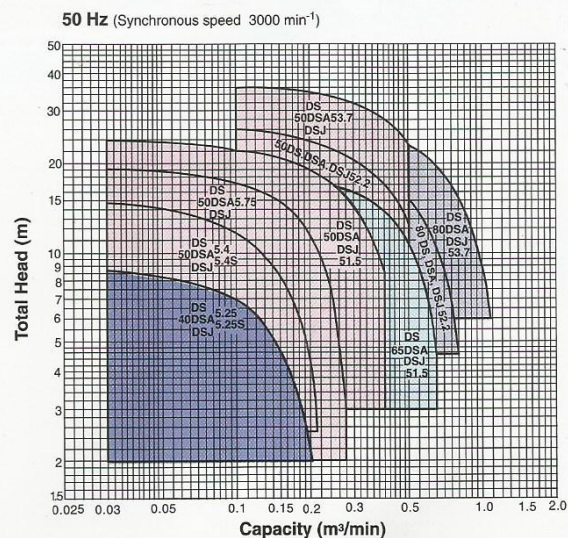


Specifications

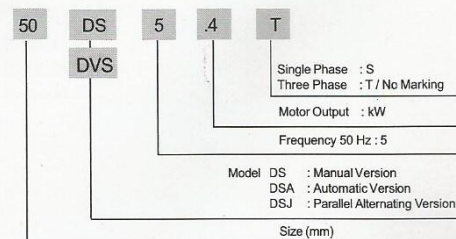
Description		Pump	
Model		DS	DVS
No. of Pole		2	2
Liquid Handled	Type of liquid	Sump	River water, Sewage
	Temperature	0°C - 40°C for DS, DSA 0°C - 32°C for DSJ	0°C - 40°C for DVS, DVSA 0°C - 32°C for DVSJ
	Maximum solids size	40DS : 3 mm, 50DS : 5mm, 65DS : 6mm, 80DS : 7 mm	40DVS : 25 mm, 50DVS : 32 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 (LWL) in Dimensions	Refer to water level (LWL) 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	Prelubricated bearing	Prelubricated 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 waterlight	
Insulation		Class F	
Protection		Built in overload protector	
Accessories			
Standard	Special Companion flange cast iron with bolts: 40-50 DSS1.5, 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

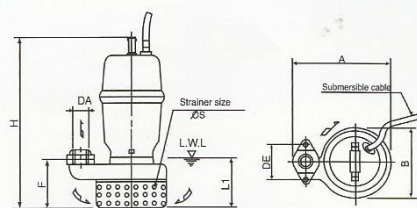
Selection Charts



Model Code

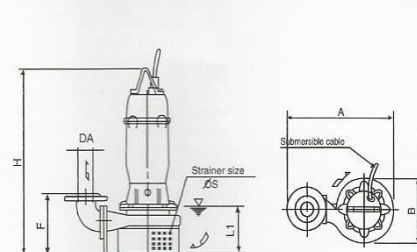


- Manual type



Unit : mm

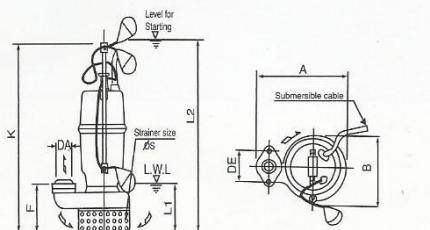
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
	50 Hz			A	B	F	H	DE	S	L1	
40	40DS5.26S	0.25	Single	219	156	80	358	80	7	85	12
	40DS5.25	0.25	Three	219	156	80	358	80	7	85	12
50	50DS5.4S	0.4	Single	260	186	99	433	96	8	110	17
	50DS5.4	0.4	Three	260	186	99	396	96	8	110	16
	50DS5.75	0.75	Three	260	186	99	456	96	8	110	17
	50DS5.15	1.5	Three	266	200	115	460	96	10	120	25



Unit : mm

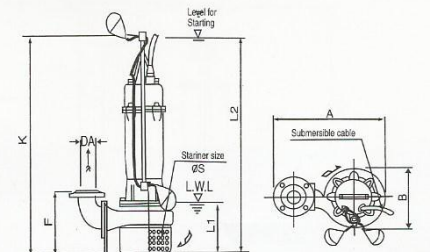
Size Ø	Model	Out Put kW	Phase	Pump and Motor						Weight (Mass) kg
	50 Hz			A	B	F	H	S	L1	
50	50DS5.2	2.2	Three	433	245	198	619	10	160	55
	50DS5.7	3.7	Three	433	245	198	619	10	160	61
65	65DS51.5	1.5	Three	407	210	197	603	10	120	35
80	80DS5.2	2.2	Three	503	268	215	625	10	160	59
	80DS5.7	3.7	Three	503	268	215	625	10	160	64

- Automatic type



Unit : mm

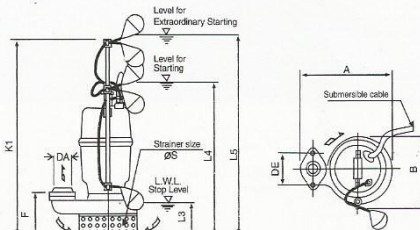
Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	DE	S	K	L1	L2	
40	40DSAS.25S	0.25	Single	219	185	80	80	7	530	150	490	13
	40DSAS.2S	0.25	Three	219	185	80	80	7	530	150	490	13
50	50DSAS.4S	0.4	Single	260	220	99	96	8	530	150	490	18
	50DSAS.4	0.4	Three	260	220	99	96	8	530	150	490	17
	50DSAS.7S	0.75	Single	260	220	99	96	8	530	150	490	18
	50DSAS.7	0.75	Three	260	220	99	96	8	530	150	490	17
	50DSAS.1.5	1.5	Three	296	207	115	96	10	530	150	490	26



Unit : mm

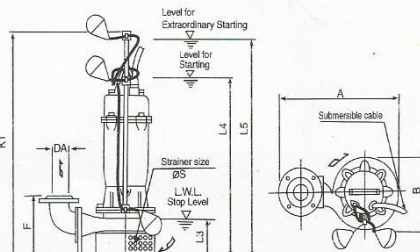
Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
	50 Hz			A	B	F	S	K	L1	L2		
50	50DSAS2.2	2.2	Three	433	248	198	10	800	270	760	61	
	50DSAS3.7	3.7	Three	433	248	198	10	800	270	760	67	
65	65DSAS1.5	1.5	Three	407	210	197	10	530	150	490	36	
80	80DSAS2.2	2.2	Three	503	268	215	10	800	270	760	65	
	80DSAS3.7	3.7	Three	503	268	215	10	800	270	760	70	

- Parallel Alternate type



Unit: mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor									Weight (Mass) kg
	50 Hz			A	B	F	DE	S	K1	L3	L4	L5	
40	40DS/JS.2SS	0.25	Single	219	185	80	80	7	640	120	410	600	
	40DS/JS.2S	0.25	Three	219	185	80	80	7	640	120	410	600	14
50	50DS/JS.4S	0.4	Single	260	220	99	99	8	640	120	410	600	18
	50DS/JS.4	0.4		260	220	99	99	8	640	120	410	600	17
	50DS/JS.5	0.75	Three	260	220	99	99	8	640	120	410	600	18
	50DS/JS.1.5	1.5		268	207	115	95	10	640	120	410	600	27

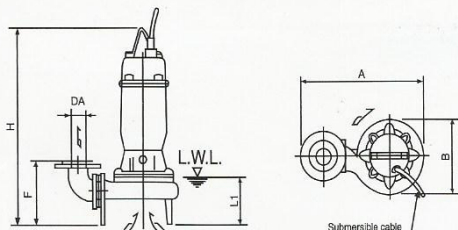
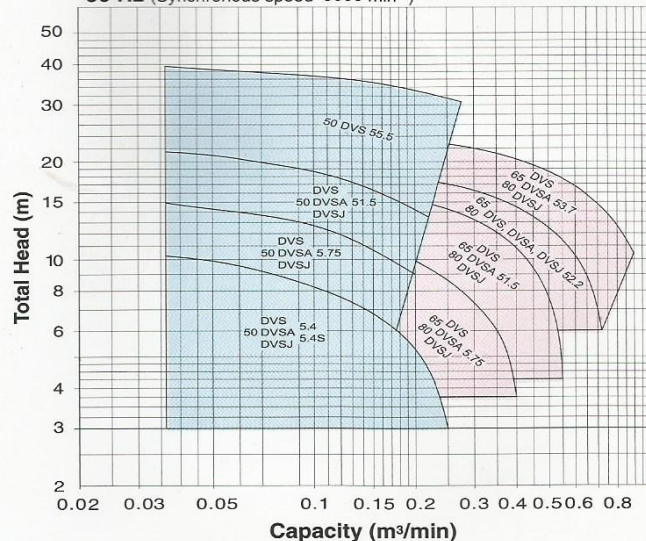


Unit : mm

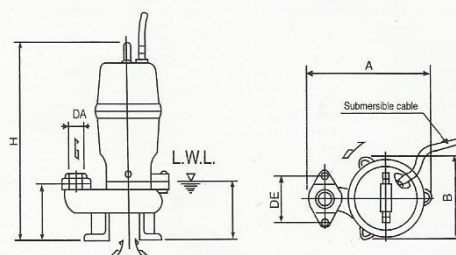
Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
	50 Hz			A	B	F	S	K1	L3	L4	L5	
50	50DSJ52.2	2.2	Three	433	248	198	10	910	240	680	870	62
	50DSJ5.7	3.7	Three	433	248	198	10	910	240	680	870	67
65	65DSJ51.5	1.5	Three	407	210	197	10	840	120	410	600	36
80	80DSJ52.2	2.2	Three	503	268	215	10	910	240	680	870	65
	80DSJ5.7	3.7	Three	503	268	215	10	910	240	680	870	70

■ Model DVS

Selection Charts

50 Hz (Synchronous speed 3000 min⁻¹)

- Manual type



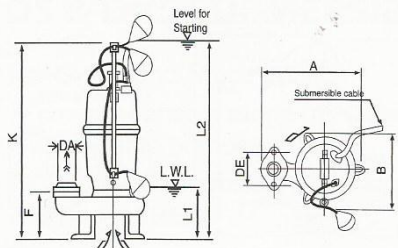
Unit : mm

Size Ø	Model	Out Put kW	Phase	Pump and Motor						Weight (Mass) kg
				A	B	F	H	DE	L1	
50	50DVS5.4S	0.4	Single	239	160	82	435	96	105	18
	50DVS5.4	0.4	Three	239	160	82	388	96	105	17
	50DVS5.75	0.75	Three	249	171	82	400	96	105	19
	50DVS51.5	1.5	Three	249	171	82	440	96	105	19

Unit : mm

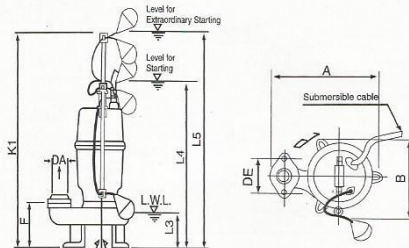
Size Ø	Model	Out Put kW	Phase	Pump and Motor					Weight (Mass) kg
				A	B	F	H	L1	
50	50DVS55.5	5.5	Three	444.5	234	161	676	105	75
65	65DVS5.75	0.75	Three	396	195	178	503	125	25
	65DVS51.5	1.5		396	195	178	521	125	24
	65DVS52.2	2.2		427	227	201	643	155	50
	65DVS53.7	3.7		427	227	201	643	155	59
80	80DVS5.75	0.75	Three	411	195	183	503	125	26
	80DVS51.5	1.5		411	195	183	521	125	35
	80DVS52.2	2.2		442	227	206	643	155	51
	80DVS53.7	3.7		442	227	206	643	155	60

Automatic type



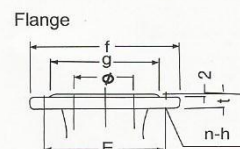
Unit: mm											
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	DE	K	L1	L2	
50	50DVSAS.4S	0.4	Single	239	183	82	96	530	150	490	20
	50DVSAS.4	0.4	Three	239	183	82	96	530	150	490	18
	50DVSAS.75	0.75	Three	249	197	82	96	530	150	490	20
	50DVSAS1.5	1.5	Three	249	201	82	96	530	150	490	30

Parallel Alternate type



Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	DE	K1	L3	L4	L5	
50	50DVSJ5.4S	0.4	Single	239	183	82	96	530	120	410	600	20
	50DVSJ5.4	0.4	Three	239	183	82	96	530	120	410	600	19
	50DVSJ5.75	0.75	Three	249	197	82	96	530	120	410	600	20
	50DVSJ5.15	1.5	Three	249	201	82	96	530	120	410	600	30

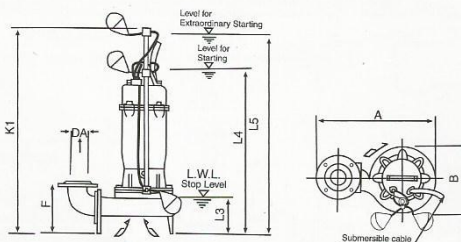
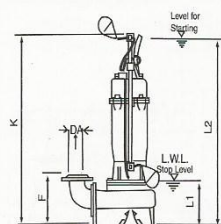
Flange Dimensions



Unit: mm							
Ø	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	

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 Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	H	J	K	L1	L2	
65	65DVSAS.75	0.75	Three	396	206	178	540	145	530	150	490	26
	65DVSAS1.5	1.5		396	210	178	572	145	530	150	490	35
	65DVSAS2.2	2.2		427	237	201	736	160	770	250	730	51
	65DVSAS3.7	3.7		427	237	201	796	160	770	250	730	60
	80DVSAS.75	0.75		411	206	183	540	145	530	150	490	27
80	80DVSAS1.5	1.5	Three	411	210	183	572	145	530	150	490	36
	80DVSAS2.2	2.2		442	237	206	736	160	770	250	730	52
	80DVSAS3.7	3.7		442	237	206	796	160	770	250	730	61

Unit : mm											
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
	50 Hz			A	B	F	K1	L3	L4	L5	
65	65DVSJ5.75	0.75	Three	396	206	178	640	120	410	600	26
	65DVSJ5.15	1.5		396	210	178	640	120	410	600	35
	65DVSJ5.2.2	2.2		427	237	201	880	220	650	840	51
	65DVSJ5.3.7	3.7		427	237	201	880	220	650	840	60
80	80DVSJ5.75	0.75	Three	411	206	183	640	120	410	600	27
	80DVSJ5.15	1.5		411	210	183	640	120	410	600	36
	80DVSJ5.2.2	2.2		442	237	206	880	220	650	840	52
	80DVSJ5.3.7	3.7		442	237	206	880	220	650	840	61



Options

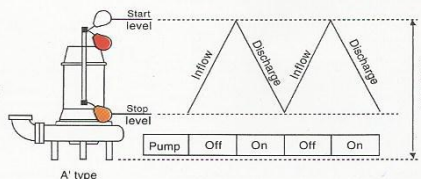
Automatic Operation ("A", "J" type)

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.

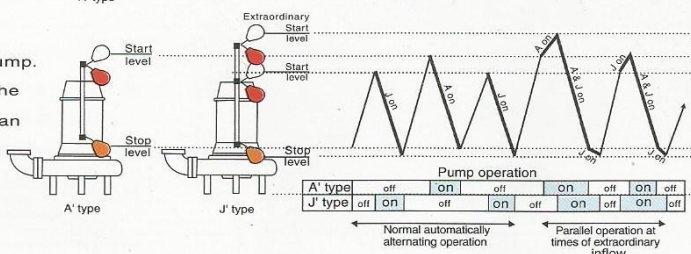
The pump automatically starts when the water level in the sump reaches the "start level", and stops when the pump has lowered the water level to the "stop level".



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

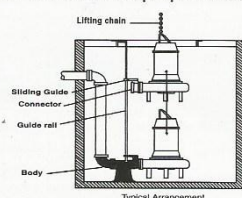
Two pumps, one A' type and one J' type are installed in the sump.

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