



**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

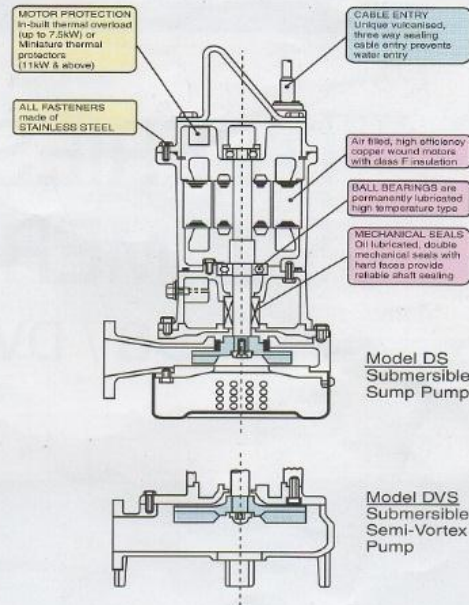
## Model DVS

### 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

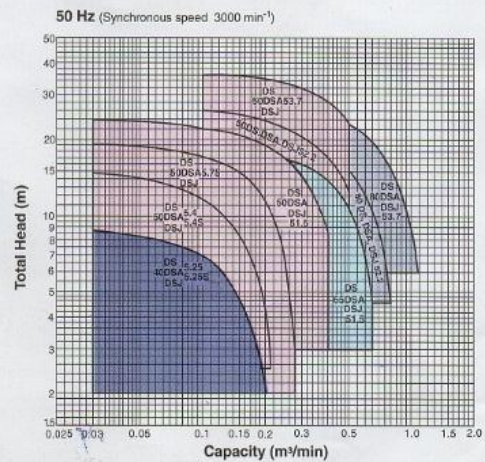


## Specifications

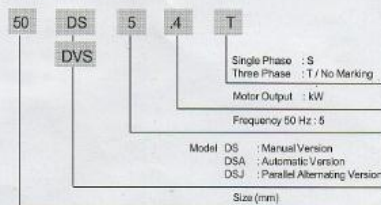
Description		Pump	
Model		DS	DVS
No. of Pole		2	2
Liquid Handled	Type of liquid	Sump	River water, Sewage
	Temperature	0°C - 40°C for DS, DSA 0°C - 32°C for DSJ	0°C - 40°C for DVS, DVSA 0°C - 32°C for DVSJ
	Maximum solids size	40DS : 3 mm, 50DS : 5mm, 65DS : 6mm, 80DS : 7 mm	40DVS : 25 mm, 60DVS : 32 mm, 65(90) 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		
Synchronous speed	3000 min <sup>-1</sup>		
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
<b>Motor</b>			
Type	2 pole, air-filled, water tight		
Insulation	Class F		
Protection	Built in overload protector		
<b>Accessories</b>			
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

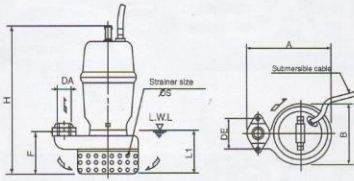


### Model Code

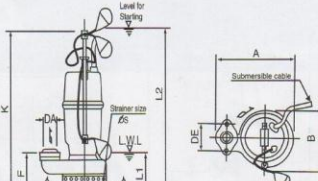




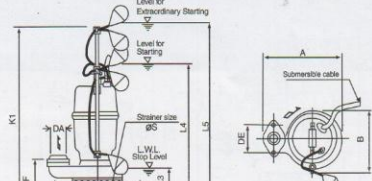
■ Manual type



■ Automatic type



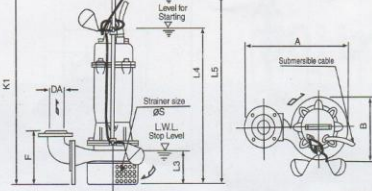
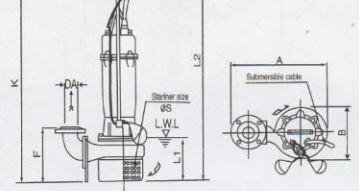
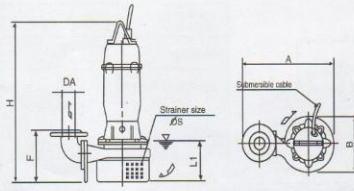
■ Parallel Alternate type



Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	H	DE	S	L1		
40	40DS5.2SS	0.25	Single	219	156	80	358	80	7	85	12	
	40DS5.2S	0.25	Three	219	156	80	358	80	7	85	12	
	50DS5.4S	0.4	Single	260	188	99	433	96	8	110	17	
50	50DS5.4	0.4	Three	260	188	99	396	96	8	110	16	
	50DS5.7S	0.75	Three	260	188	99	396	96	8	110	17	
	50DS51.5	1.5	Three	268	200	115	450	96	10	120	25	

Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	DE	S	K	L1	L2	
40	40DS45.2SS	0.25	Single	219	185	80	80	7	530	150	490	13
	40DS45.2S	0.25	Three	219	185	80	80	7	530	150	490	13
	50DS45.4S	0.4	Single	260	200	99	96	8	530	150	490	18
50	50DS45.4	0.4	Three	260	200	99	96	8	530	150	490	17
	50DS45.7S	0.75	Three	260	200	99	96	8	530	150	490	16
	50DS451.5	1.5	Three	268	207	115	96	10	530	150	490	26

Size Ø	Model	Out Put kW	Phase	Pump and Motor											Weight (Mass) kg
				A	B	F	DE	S	K1	L3	L4	L5			
40	40DSJ5.2SS	0.25	Single	219	185	80	80	7	640	120	410	800	14		
	40DSJ5.2S	0.25	Three	219	185	80	80	7	640	120	410	800	14		
	50DSJ5.4S	0.4	Single	260	200	99	96	8	640	120	410	800	18		
50	50DSJ5.4	0.4	Three	260	200	99	96	8	640	120	410	800	17		
	50DSJ5.7S	0.75	Three	260	200	99	96	8	640	120	410	800	18		
	50DSJ51.5	1.5	Three	268	207	115	96	10	640	120	410	800	27		



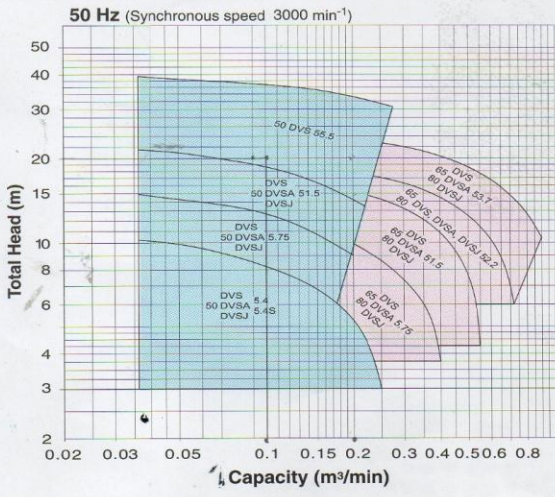
Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	H	S	L1			
50	50DS5.2	2.2	Three	433	245	198	619	10	160	55		
	50DS5.7	3.7	Three	433	245	198	619	10	160	61		
	65DS51.5	1.5	Three	407	210	197	503	10	120	35		
65	80DS52.2	2.2	Three	503	268	215	625	10	160	59		
	80DS53.7	3.7	Three	503	268	215	625	10	160	64		

Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				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	
	65DSAS1.5	1.5	Three	407	210	197	10	530	150	490	36	
65	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	

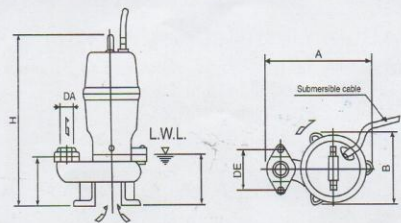
Size Ø	Model	Out Put kW	Phase	Pump and Motor											Weight (Mass) kg
				A	B	F	S	K1	L3	L4	L5				
50	50DSJ52.2	2.2	Three	433	248	198	10	910	240	680	870	62			
	50DSJ53.7	3.7	Three	433	248	198	10	910	240	680	870	67			
	65DSJ51.5	1.5	Three	407	210	197	10	640	120	410	600	36			
65	80DSJ52.2	2.2	Three	503	268	215	10	910	240	680	870	65			
	80DSJ53.7	3.7	Three	503	268	215	10	910	240	680	870	70			

■ Model DVS

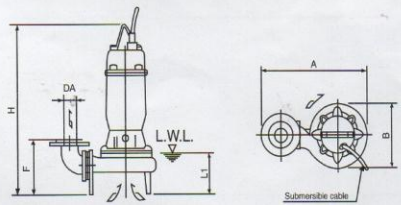
Selection Charts



■ Manual type



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	398	96	105	17
	60DVS5.75	0.75	Three	249	171	82	400	96	105	19
	50DVS51.5	1.5	Three	249	171	82	440	96	105	19



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
65	65DVS51.5	1.5	Three	396	195	178	521	125	24
	65DVS52.2	2.2	Three	427	227	201	643	155	50
	65DVS53.7	3.7	Three	427	227	201	643	155	59
	80DVS5.75	0.75	Three	411	195	183	503	125	26
80	80DVS51.5	1.5	Three	411	195	183	521	125	35
	80DVS52.2	2.2	Three	442	227	206	643	155	51
	80DVS53.7	3.7	Three	442	227	206	643	155	60