



**EBARA**

MCF001LA

# D'Series SUBMERSIBLE PUMP

Model **DS/DVS/DML/DL**

**50Hz**



**Sump Pump  
TYPE DS**

**Effluent Pump  
TYPE DVS**

**Sewage Pump  
TYPE DML**

**Sewage Pump  
TYPE DL**

# EBARA D'Series SUBMERSIBLE PUMP - *Quality that shows.....*

For Sump, Effluent,  
Waste water  
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

## Model DML

### ■ FEATURES

- Non-Clog Single channel Impeller 3" passage.
- Range of Models up to 150mm discharge.
- Dry pit is available as optional.

### ■ APPLICATIONS

- Sewage
- Waste water

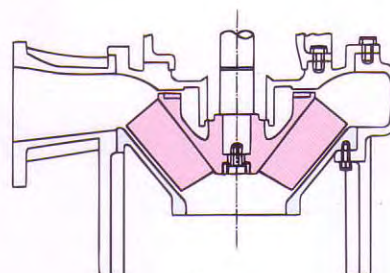
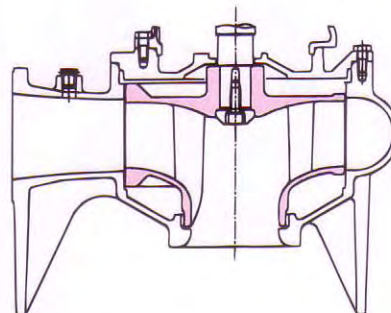
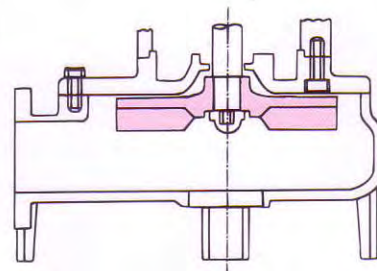
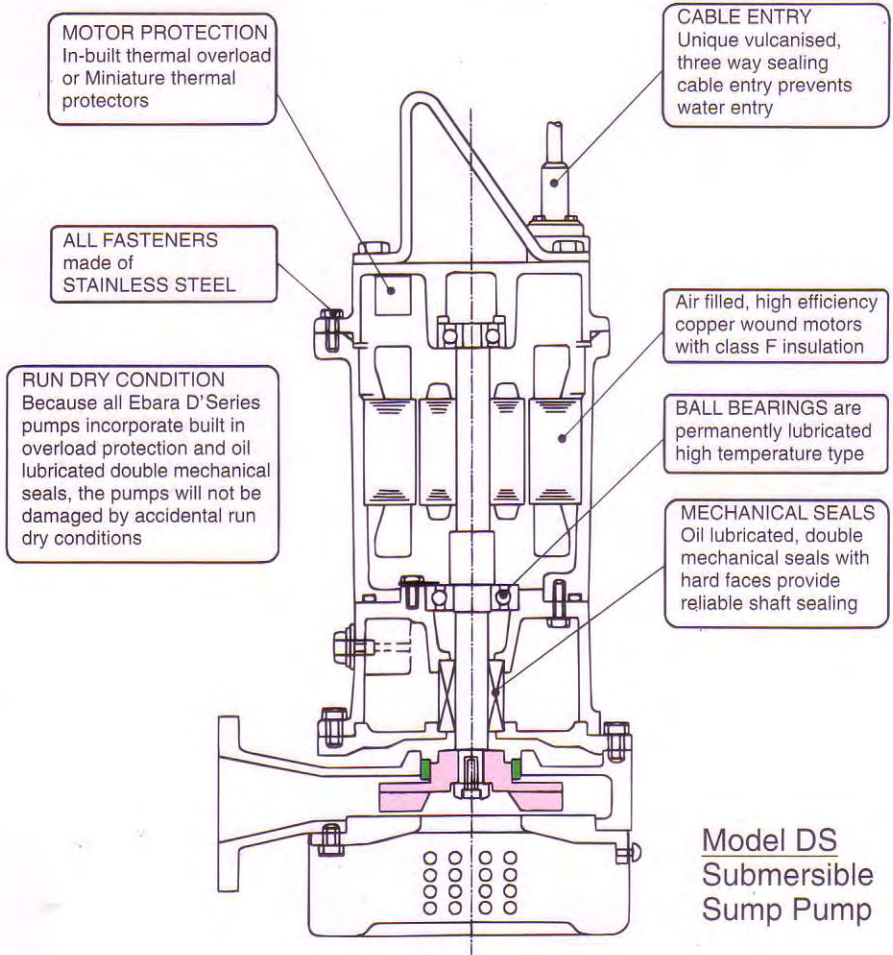
## Model DL

### ■ FEATURES

- Non-Clog Type Impellers prevents clogging by fibrous matter.
- Range of Models up to 300mm discharge size and 45kW available.

### ■ APPLICATIONS

- Sewage
- Waste water



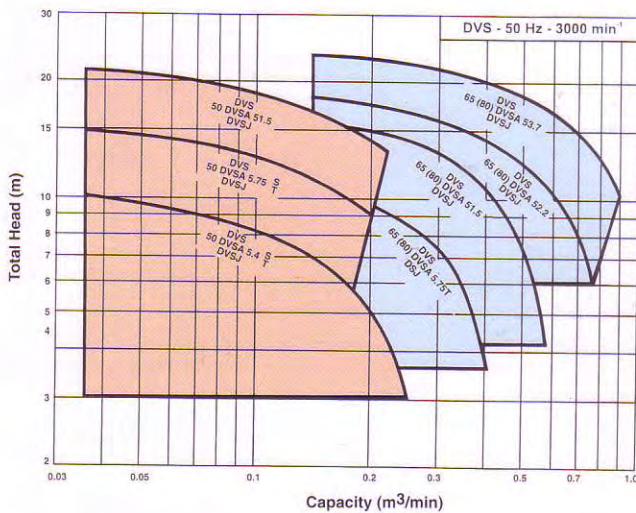
# Model DVS

## SPECIFICATIONS

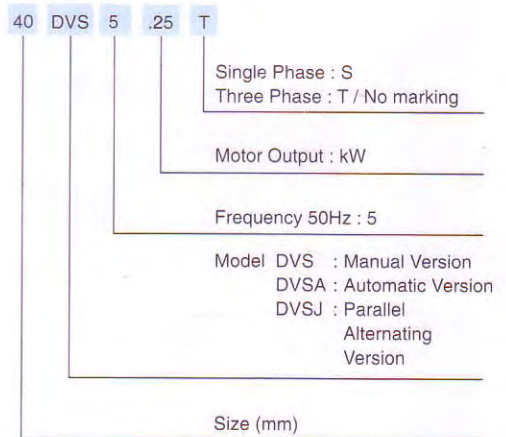


Pump			
Liquid Handled	Type of liquid	River water, Effluent	
	Temperature	0°C–40°C for DVS, DVSA; 0°C–32°C for DVSJ	
	Pump size: Max solids size	50 : 32mm, 65 (80) : 45mm or 56mm	
Maximum Submergence		4m (0.4~1.5kW) ; 8m (2.2~3.7kW)	
Minimum Submergence		Refer to water level (L.W.L.) in Dimensions. It is possible to operate at low water level for 30min.	
Synchronous Speed		3000min <sup>-1</sup>	
Construction	Mechanical Seal	Double mechanical seal	
	Impeller	Semi-Vortex	
	Bearing	Prelubricated bearing	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Shaft	403 Stainless Steel	
	Mechanical Seal	Impeller side	Silicon carbide
		Motor side	Ceramic / Carbon
	Packing	NBR	
Motor			
Type	2 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in thermal protector		
Accessories			
Standard	Submersible cable: 0.4~1.5kW x 6m, 2.2~3.7kW x 10m Float switch (for DVSA, DVSJ)		
Optional	Quick discharge connector, Float switch (for DVS only)		

## PERFORMANCE CHART

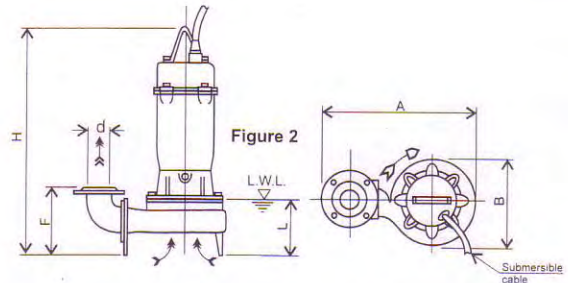
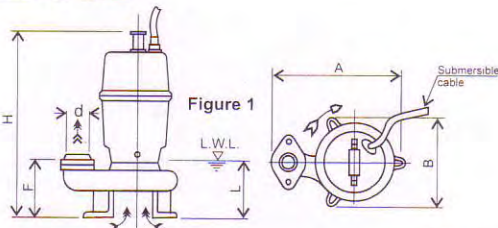


## MODEL CODE



## DIMENSIONS

### Manual type



Unit: mm

Size d	Model	Output kW	Phase	Pump and Motor						L.W.L. L	wt kg
				d	A	B	F	H			
50	50DVS5.4S	0.4	Single	PT2	239	160	82	435	105	18	
	50DVS5.4T	0.4	3∅	PT2	239	160	82	398	105	17	
	50DVS5.75S	0.75	Single	PT2	249	171	82	497	105	26	
	50DVS5.75T	0.75	3∅	PT2	249	171	82	397	105	19	
	50DVS51.5	1.5	3∅	PT2	249	171	82	439	105	27	
65	65DVS5.75T	0.75	3∅	-	396	195	178	467	125	25	
	65DVS51.5	1.5	3∅	-	396	195	178	519	125	34	

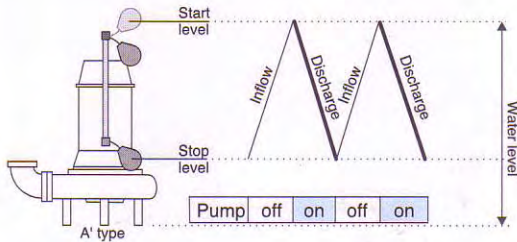
Size d	Model	Output kW	Phase	Pump and Motor				L.W.L. L	wt kg
				A	B	F	H		
65	65DVS52.2	2.2	3∅	427	227	201	643	155	50
	65DVS53.7	3.7	3∅	427	227	201	643	155	59
	80DVS5.75T	0.75	3∅	411	195	183	467	125	26
80	80DVS51.5	1.5	3∅	411	195	183	519	125	35
	80DVS52.2	2.2	3∅	442	227	206	643	155	51
	80DVS53.7	3.7	3∅	442	227	206	643	155	60

## 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.

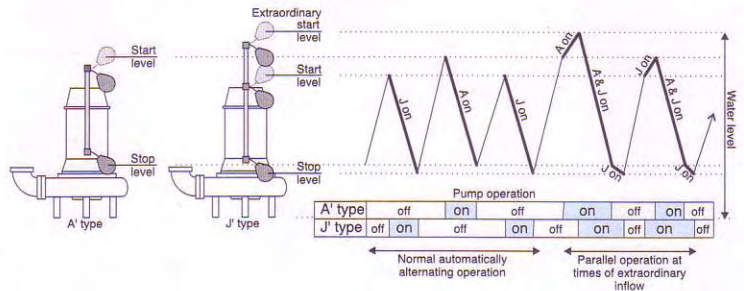
### SINGLE PUMP INSTALLATION (A' TYPE)

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".



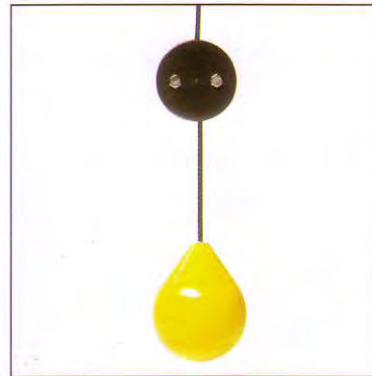
### DUPLEX PUMP INSTALLATION (A' & J' TYPE)

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.



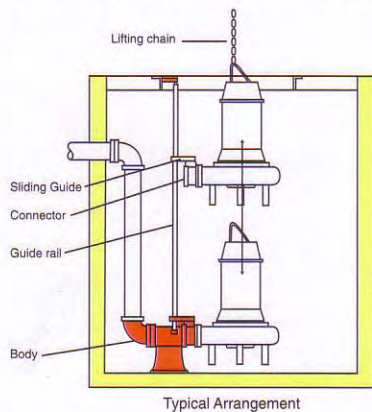
## FLOAT SWITCH

FLOAT SWITCH	
Model	EF-4
Temperature	0~50°C
Function of contact	Up = ON Down = OFF
Voltage	AC 24V DC 24 V
Max Current	AC 0.5A DC 0.5A
Contact Capacity	AC 12VA DC 12VA
Lead Wire	2x0.2mm <sup>2</sup> x6m

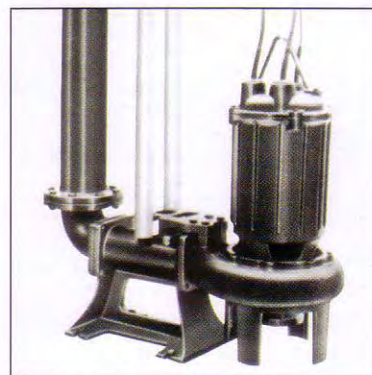


## QUICK DISCHARGE CONNECTION (QDC)

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.



Typical Arrangement



EBARA Pump with QDC - Typical Arrangement

Note: All specifications subject to change without prior notice.



**EBARA** CORPORATION

Standard Products Business Office

Phone : 81-3-5461-6101

Fax : 81-3-5460-4930

Website : <http://www.ebara.co.jp>