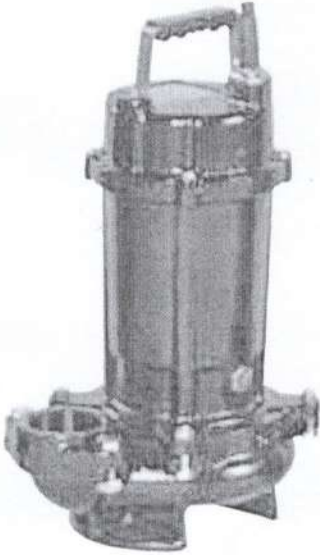




DVS

**SUBMERSIBLE ELECTRIC PUMPS FOR LOADED WATER SEMI-VORTEX**

in cast iron



Submersible electric pumps for loaded water, semi-vortex, cast iron.

**APPLICATIONS**

- Effluent collection tanks
- Ideal for applications with effluent containing soft or fibrous solids
- Lifting or clear or grey water with suspended particles
- Septic tanks (imhoff)

**TECHNICAL FEATURES**

- Semi-vortex non-clogging impeller enables pumping of foreign matter with dimensions up to 70% of the delivery port diameter
- Easy maintenance

**TECHNICAL DATA**

- Maximum fluid temperature: 40°C
- Maximum solid dimensions:
  - 21 mm (50DVS)
  - 33 mm (65DVS and 80DVS 1.5kW)
  - 41 mm (65DVS and 80DVS 2.2-3.7 kW)
- Maximum length of fibres:
  - 100mm (50DVS)
  - 200 (65DVS and 80DVS 1.5kW)
  - 245 (65DVS and 80DVS 2-3.7 kW)
- 2 pole motor
- Insulation class F
- Protection rating IP68
- Voltage: three-phase 380-415±10%, 50Hz
- Flanges: G1½ (50DVS 1.5kW)
  - DN50, DN65, DN80
- Power up to 3.7 kW

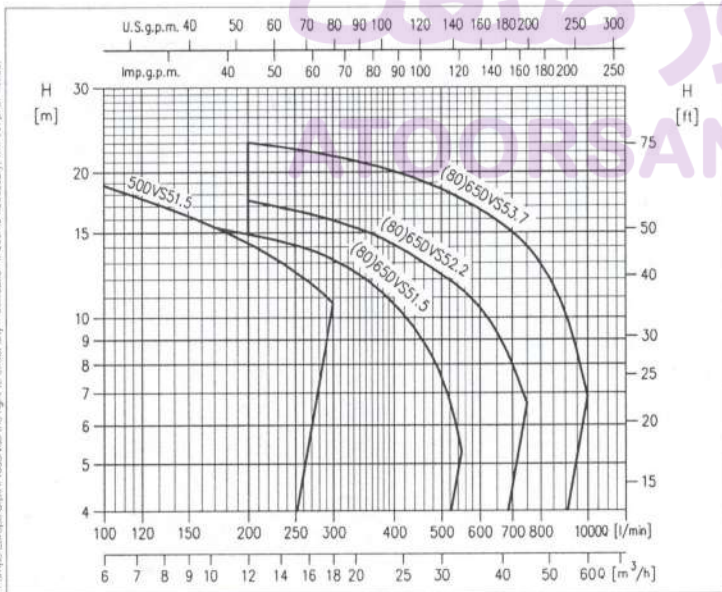
**MATERIALS**

- Pump body, semi-vortex impeller, elbow (bend) in cast iron
- Shaft made of AISI 403 stainless steel
- Mechanical seal: SiC/SiC/NBR (impeller side)
  - Carbon/Ceramic/NBR (motor side)

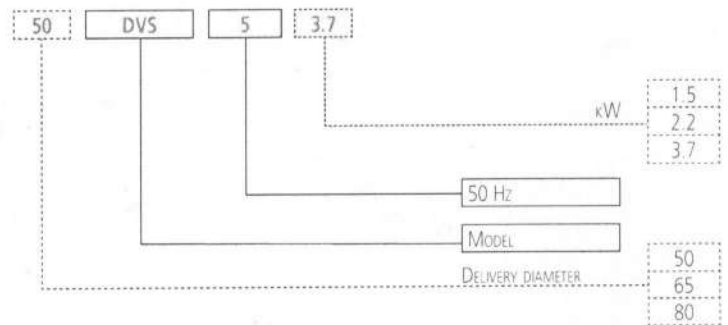
**ACCESSORIES (on request)**

For accessories, see page 151 onwards

**PERFORMANCE RANGE (per ISO 9906 Annex A)**



**PUMP IDENTIFICATION CODE**



**PERFORMANCE TABLE**

Model	P <sub>2</sub>		Q = Flow rate												
	[HP]	[kW]	l/min m <sup>3</sup> /h	100 6	150 9	200 12	300 18	400 24	500 30	550 33	600 36	700 42	750 45	900 54	1000 60
			H = Head [m]												
50DVS51.5	2	1.5	18.8	16.6	14.3	10.7	-	-	-	-	-	-	-	-	-
(80)65DVS51.5	2	1.5	-	15.8	14.9	13.2	10.9	7.6	5.3	-	-	-	-	-	-
(80)65DVS52.2	3	2.2	-	-	17.5	15.9	14.2	12.3	11.5	10.5	8.1	6.6	-	-	-
(80)65DVS53.7	5	3.7	-	-	23.0	21.6	20.1	18.4	17.6	16.7	15.0	14.0	10.4	6.9	-

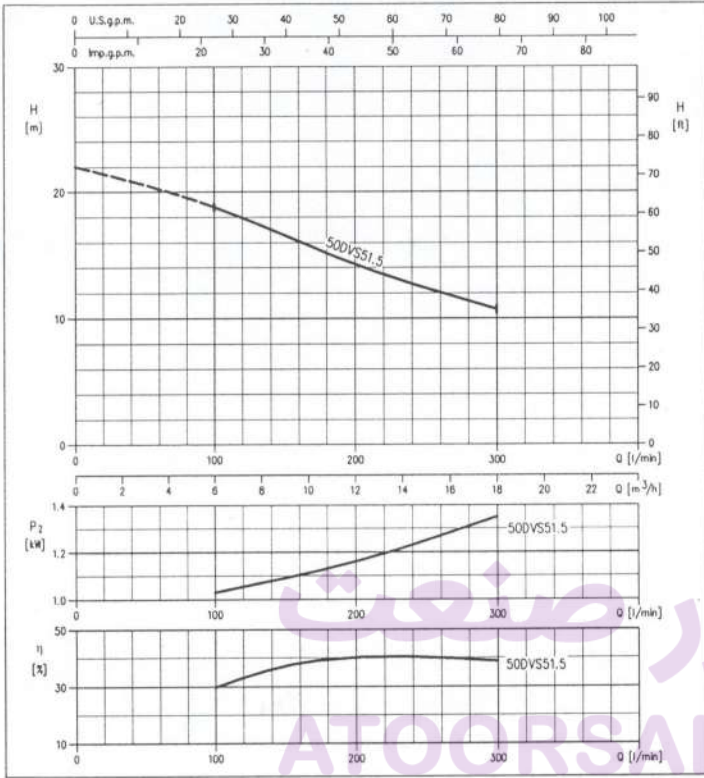
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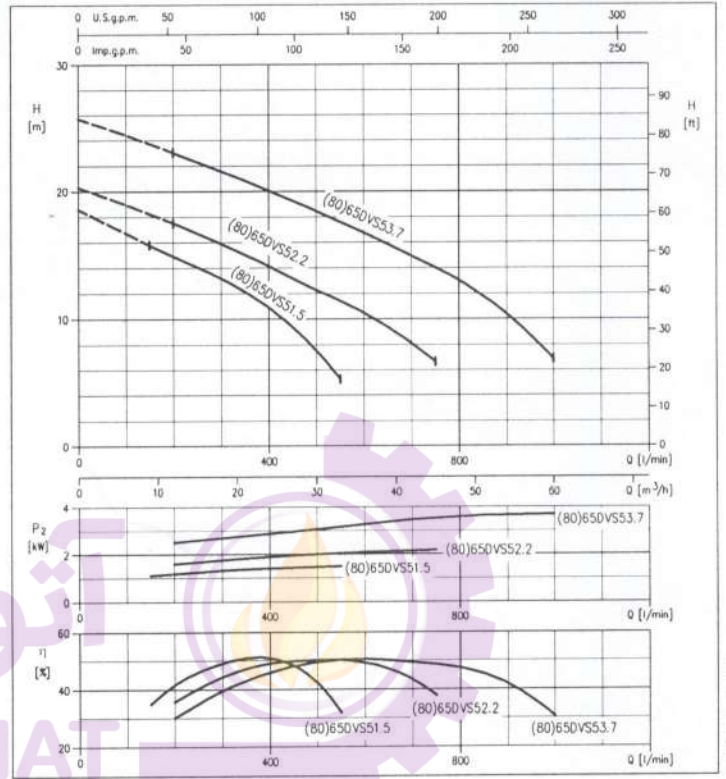
# DVS

## SUBMERSIBLE ELECTRIC PUMPS FOR LOADED WATER SEMI-VORTEX in cast iron

PERFORMANCE CURVES series 50DVS51.5 (1.5 kW)  
(per ISO 9906 Annex A)



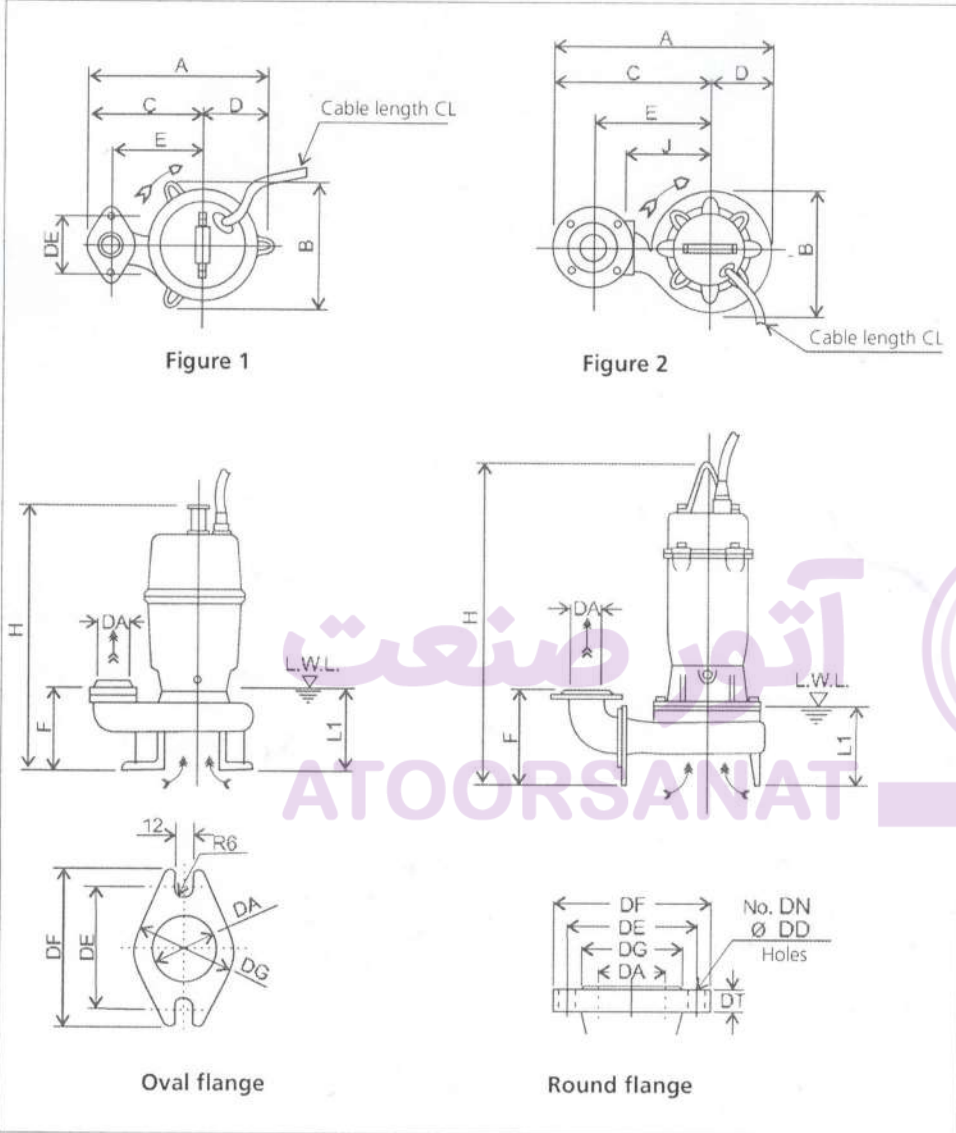
PERFORMANCE CURVES series (80)65DVS51.5 (1.5 kW)  
series (80)65DVS52.2 (2.2 kW)  
series (80)65DVS53.7 (3.7 kW)  
(per ISO 9906 Annex A)



# DVS

## SUBMERSIBLE ELECTRIC PUMPS FOR LOADED WATER SEMI-VORTEX in cast iron

### DIMENSIONS DVS



Type	DA	DE	DF	DG	DT	DN	DD
Oval	50	96	114	76	-	-	-
Round	65	145	185	118	17	4	19
	80	160	200	132	19	8	

### TABLE OF DIMENSIONS DVS

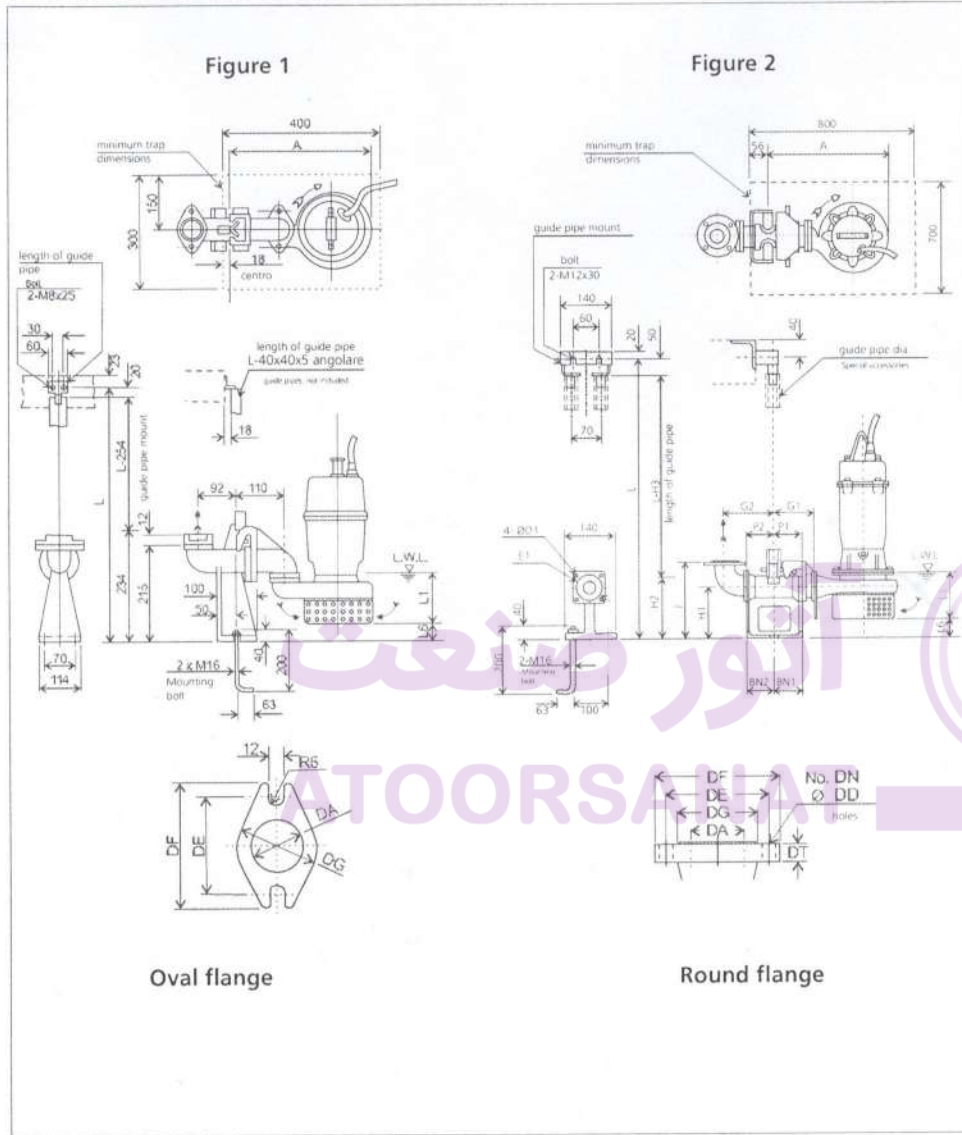
DA	Model	Fig.	Type Flange	[kW]	DA	A	B	C	D	E	F	H	DE	J	L1 (*)	CL (m)	Weight (kg)										
50	50DVS1.5	1	Oval	1.5	G2	249	171	163	86	125	82	439	96	-	105	6	27										
	65DVS1.5			1.5													396	195	298	98	210	178	519	145	125	34	
65	65DVS2.2	2	Round	2.2	65	427	227	313	114	225	201	643	-	160	155	10	50										
	65DVS3.7			3.7													442	227	328	114	235	206	643	160	155	10	59
80	80DVS1.5			80	Round	1.5	80	411	195	313	98	220	183	519	-	145	125	6	35								
	80DVS2.2					2.2													442	227	328	114	235	206	643	160	155
	80DVS3.7	3.7	442			227													328	114	235	206	643	160	155	10	60

(\*) - L.W.L (minimum fluid level)

# DVS

## SUBMERSIBLE ELECTRIC PUMPS FOR LOADED WATER SEMI-VORTEX in cast iron

DIMENSIONS DVS with QDC (lowering device kit)



Type	DA	DE	DF	DG	DT	DN	DD
Oval	50	96	114	76	-	-	-
Round	65	145	185	118	17	4	19
	80	160	200	132	19	8	

TABLE OF DIMENSIONS DVS with QDC (lowering device kit)

DA	Model	Fig.	Type Flange	[kW]	A	P1	P2	G1	G2	F	H1	H2	H3	L1 (*)	L6	BN1	BN2	D1	E1	QDC (lowering device kit)	
																				Model	Weight (kg)
50	50DVS51.5	1	Oval	1.5	311	-	-	-	-	-	-	-	-	105	58	-	-	-	-	LS50	9
	65DVS51.5			1.5	363	-	-	-	-	-	-	-	-	-	125	72	-	-	-	-	-
65	65DVS52.2	2	Round	2.2	394	75	95	120	160	250	145	190	240	155	49	75	95	12	140	LM65	14
	65DVS53.7			3.7	394																
	80DVS51.5			1.5	363																
80	80DVS52.2	2	Round	2.2	394	75	95	120	170	255	145	190	240	155	49	75	95	12	140	LM65	14
	80DVS53.7			3.7	394																

(\*) - L.W.L. (minimum fluid level)

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