

**D-LIGHT VALCO Drainage Submersible Dewatering Portable Electric Pumps made in synthetic corrosion and abrasion-free material, made in stainless steel and in special corrosion-resistant aluminium alloy suitable for light drainage pumping applications. - Dernajo™**

**Applications**

Suitable for domestic, residential, industrial, agricultural and civil drainage and wastewater sewage uses: dewatering; sump drainage, effluent and sewage; ponds, construction, mines, reclamation, swimming pools, basements and flooded areas, stormwaters, irrigation, stock breeding, food beverage, for waste, sewage and washwater for single and several households and public buildings, for building sites also partially dry, for continuous and heavy duties for most types of fluids also with bodies in suspension in water treatment plants, brackish waters, dirty waters, sludge, industrial processes, etc.



Product image could vary from the actual product

I-36063 Marostica (Vicenza) Italy  
www.valco.eu

**D-LIGHT-DRAINAGE Range VALCO BRAND Submersible Dewatering  
Portable Electric Pumps Dernajo™**

Pump and motor construction data  
with limits of use and operating conditions

Types		HP	kW	Q= Performance at 2900 rpm																			In (A) 1x230 V	In (A) 3x400 V
1 PH 230V 50Hz	3 PH 400V 50Hz			0	0,6	1,2	2,4	3	3,6	4,8	6	7,2	9	12	15	18	21,3	24	27	30,6	32,4	36,6		
		m3/h																						
		l/m.																						
D305F	-	0,3	0,25	8,0	7,7	7,4	6,7	6,3	5,9	5,1	4,1	3,0	0,9									2,2	-	
D400F	-	0,4	0,3	8,6	8,3	8,0	7,3	7,0	6,7	6,0	5,2	4,3	3,0									2,2	-	
-	D400T	0,4	0,3	8,6	8,3	8,0	7,3	7,0	6,7	6,0	5,2	4,3	3,0									-	0,9	
D405F	-	0,4	0,3	8,0	7,9	7,8	7,5	7,3	7,1	6,7	6,1	5,4	4,3									2,8	-	
D410F	-	0,4	0,3	6,4	6,2	5,9	5,2	4,9	4,5	3,6	2,8	1,7										1,8	-	
D415F	-	0,4	0,3	6,3	6,1	5,9	5,2	4,7	4,3	2,6												1,0	-	
D500F	-	0,5	0,37	9,6	9,3	9,0	8,3	8,0	7,7	7,0	6,2	5,3	4,1	2,0								2,7	-	
-	D500T	0,5	0,37	9,6	9,3	9,0	8,3	8,0	7,7	7,0	6,2	5,3	4,1	2,0								-	1,0	
D515F	-	0,5	0,37	8,0	7,9	7,7	7,3	7,1	6,9	6,5	6,0	5,6	4,8	3,3	1,6							3,0	-	
D600F	-	0,6	0,45	10,0	9,5	9,1	8,3	7,9	7,4	6,6	5,7	4,7	3,0									3,0	-	
-	D600T	0,6	0,45	10,0	9,5	9,1	8,3	7,9	7,4	6,6	5,7	4,7	3,0									-	1,4	
D610F	-	0,6	0,45	8,5	8,3	8,1	7,5	7,1	6,5	5,2	3,9	2,5										2,1	-	
D620F	-	0,6	0,45	8,0	7,7	7,3	6,7	6,4	6,2	5,7	5,2	4,6	3,8	1,7								2,4	-	
D625F	-	0,6	0,5	7,1	6,8	6,5	5,6	5,1	4,7	3,8	2,8											2,3	-	
D800F	-	0,8	0,6	30,8	27,5	24,0	16,4	12,1	7,6													3,5	-	
D810F	-	0,8	0,6	11,5	11,2	10,9	10,2	9,9	9,5	8,9	8,2	7,5	6,4	4,5	2,5							4,5	-	
-	D810T	0,8	0,6	11,5	11,2	10,9	10,2	9,9	9,5	8,9	8,2	7,5	6,4	4,5	2,5							-	2,1	
D820F	-	0,8	0,6	11,0	10,7	10,5	10,0	9,8	9,6	9,2	8,6	8,0	7,2	5,7								4,3	-	
-	D820T	0,8	0,6	11,0	10,7	10,5	10,0	9,8	9,6	9,2	8,6	8,0	7,2	5,7	3,9	2,0						-	1,5	
D825F	-	0,8	0,6	10,3	10,1	9,8	9,3	9,1	8,8	8,3	7,8	7,2	6,3	4,0								5,1	-	
D830F	-	0,8	0,6	9,0	8,9	8,7	8,2	8,0	7,7	7,1	6,5	5,7	4,7	3,5	1,0							3,7	-	
D835F	-	0,8	0,6	9,9	9,6	9,3	8,8	8,5	8,2	7,7	7,1	6,4	5,3	2,8								3,7	-	
D845F	-	0,8	0,6	8,8	8,7	8,5	8,2	8,0	7,8	7,5	7,1	6,7	6,0	4,8	3,4							3,7	-	
D855F	-	0,8	0,6	8,2	8,0	7,8	7,3	7,1	6,8	6,4	6,0	5,5	4,9	3,9	2,9	2,0						4,3	-	
-	D855T	0,8	0,6	8,2	8,0	7,8	7,3	7,1	6,8	6,4	6,0	5,5	4,9	3,9	2,9	2,0						-	1,5	
D1000F	-	1	0,75	42,2	40,3	37,7	30,7	26,2	21,0													5,0	-	
D1005F	-	1	0,75	14,5	14,2	13,9	13,3	13,0	12,6	11,8	11,0	10,2	9,0	7,0	4,0	1,5						6,5	-	
-	D1005T	1	0,75	14,5	14,2	13,9	13,3	13,0	12,6	11,8	11,0	10,2	9,0	7,0	4,0	1,5						-	2,2	
D1020F	-	1	0,75	13,3	13,1	12,9	12,4	12,2	11,9	11,4	10,9	10,3	9,3	7,3	4,5							3,7	-	
D1025F	-	1	0,75	12,8	12,6	12,4	12,0	11,8	11,5	11,1	10,6	10,1	9,3	7,8	6,1	4,4	2,3					4,8	-	
-	D1025T	1	0,75	12,8	12,6	12,4	12,0	11,8	11,5	11,1	10,6	10,1	9,3	7,8	6,1	4,4	2,3					-	1,9	
D1030F	-	1	0,75	11,1	11,0	10,9	10,6	10,5	10,3	10,1	9,8	9,5	8,9	7,7	6,2	4,1						4,8	-	
-	D1030T	1	0,75	11,1	11,0	10,9	10,6	10,5	10,3	10,1	9,8	9,5	8,9	7,7	6,2	4,1						-	1,8	
D1035F	-	1	0,75	10,3	10,0	9,8	9,3	9,1	8,8	8,4	8,0	7,5	6,6	5,5	4,5	3,7	2,7	1,9	1,0			4,8	-	
-	D1035T	1	0,75	10,3	10,0	9,8	9,3	9,1	8,8	8,4	8,0	7,5	6,6	5,5	4,5	3,7	2,7	1,9	1,0			-	1,9	
D1100F	-	1,1	0,8	11,5	11,3	11,0	10,3	9,9	9,6	8,9	8,2	7,5	6,4	4,5	2,6							4,3	-	
D1110F	-	1,1	0,8	10,0	9,9	9,7	9,4	9,2	9,0	8,7	8,3	7,9	7,2	5,7	3,3							4,3	-	
D1500F	-	1,5	1,1	18,5	18,3	18,1	17,5	17,2	16,9	16,4	15,9	15,3	14,5	13,0	11,0	9,0	7,0	5,5	3,5			8,4	-	
-	D1500T	1,5	1,1	18,5	18,3	18,1	17,5	17,2	16,9	16,4	15,9	15,3	14,5	13,0	11,0	9,0	7,0	5,5	3,5			-	2,8	
D1505F	-	1,5	1,1	16,5	16,2	15,9	15,4	15,1	14,9	14,3	13,8	13,2	12,3	10,7	8,9	6,9	4,2	1,7				10,6	-	
-	D1505T	1,5	1,1	16,5	16,2	15,9	15,4	15,1	14,9	14,3	13,8	13,2	12,3	10,7	8,9	6,9	4,2	1,7				-	3,3	
D1515F	-	1,5	1,1	16,2	16,0	15,8	15,4	15,2	15,0	14,6	14,2	13,8	13,2	12,0	10,8	9,6	8,3	7,0	5,7	4,0	3,0	8,4	-	
-	D1515T	1,5	1,1	16,2	16,0	15,8	15,4	15,2	15,0	14,5	14,2	13,8	13,2	12,0	10,8	9,6	8,3	7,0	5,7	4,0	3,0	-	2,8	
D2000QF	-	2	1,5	20,5	20,2	19,9	19,3	19,0	18,7	18,2	17,7	17,2	16,4	14,9	13,0	11,5	9,6	8,2	6,8	4,6	3,3	9,4	-	
-	D2000T	2	1,5	20,5	20,2	19,9	19,3	19,0	18,7	18,2	17,7	17,2	16,4	14,9	13,0	11,5	9,6	8,2	6,8	4,6	3,3	-	3,6	
D2005QF	-	2	1,5	18,2	18,0	17,8	17,4	17,3	17,1	16,7	16,3	16,0	15,3	14,3	13,3	12,1	10,9	9,7	8,4	6,8	6,0	4	9,4	-
-	D2005T	2	1,5	18,2	18,0	17,8	17,4	17,3	17,1	16,7	16,3	16,0	15,3	14,3	13,3	12,0	10,9	9,7	8,4	6,8	6,0	4	-	3,6

• Reduction in speed will result in a fall of performance. • DO NOT RUN PUMP DRY! • Tolerances according to ISO 9906 Grade 3B.



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**Pump and motor construction data**  
with limits of use and operating conditions

**OPERATING CONDITIONS (LIMITS OF USE)**

Maximum temperature of pumped liquid °C	0 +35
pH of pumped liquid	6 - 10
Density of pumped liquid with $\gamma_{\text{water}}$ specific gravity kg/dm <sup>3</sup>	1
Presence of solids in suspension	suitable for rain, ground and sandy waters compatible with the materials and with the free passage of the pump.
Installation type	Submerged (partially submerged for short periods). See note (1) below

**MOTOR**

Asynchronous Electric motor.	
Number of poles	2
Insulation class	F
Degree of protection IP	68
Service	Continuous duty
Maximum tolerance (fluctuation) from the nominal voltage	±6%
Starts per hour max	30

1phase: supplied as standard with built-in thermal protection and float switch, for D2000QF and D2005QF in external control box  
3phase version the overload motor protection must be provided by the user (we recommend the use of a control box)

Types	Construction materials					
	Motor case and pump body	Impeller	Wear plate	Shaft (pump side) stainless steel	Mechanical seal codes	Motor chamber
D305F	Both in stainless steel, top delivery (1)	Technopolymer	Stainless steel	DIN/EN 1.4305 (AISI 303)	PGA-MRR-O	Dry (2)
D400F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D400T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D405F	Motor case in stainless steel, pump body in aluminium	Noryl®	Aluminium	DIN/EN 1.4005 (AISI 416)	PGA-MR-O	In oil
D410F	Both in stainless steel, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4021 (AISI 420)	RR	Dry (2)
D415F	Both in technopolymer, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4005 (AISI 416)	RR	Dry (2)
D500F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D500T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D515F	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4005 (AISI 416)	PGA-MR-O	In oil
D600F	Both in stainless steel, top delivery (1)	Technopolymer	Stainless steel	DIN/EN 1.4305 (AISI 303)	PGA-MRR-O	Dry (2)
D600T	Both in stainless steel, top delivery (1)	Technopolymer	Stainless steel	DIN/EN 1.4305 (AISI 303)	PGA-MRR-O	Dry (2)
D610F	Both in technopolymer, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4005 (AISI 416)	RR	Dry (2)
D620F	Motor case and pump body in technopolymer	Noryl®	Technopolymer	DIN/EN 1.4021 (AISI 420)	GA	Dry
D625F	Both in technopolymer, GROUND LEVEL DRAINAGE (3)	Noryl®	Technopolymer	DIN/EN 1.4021 (AISI 420)	GA	Dry
D800F	Both in technopolymer, multistage, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4021 (AISI 420)	GA	Dry (2)
D810F	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D810T	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D820F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D820T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D825F	Both in technopolymer, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4005 (AISI 416)	RR	Dry (2)
D830F	Motor case and pump body in stainless steel	Stainless steel	Stainless steel	DIN/EN 1.4021 (AISI 420)	KK	Dry
D835F	Motor case and pump body in technopolymer	Stainless steel	Technopolymer	DIN/EN 1.4021 (AISI 420)	KK	Dry
D845F	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4005 (AISI 416)	PGA-MR-O	In oil
D855F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D855T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1000F	Both in technopolymer, multistage, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4021 (AISI 420)	GA	Dry (2)
D1005F	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D1005T	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D1020F	Both in technopolymer, top delivery (1)	Noryl®	Technopolymer	DIN/EN 1.4005 (AISI 416)	RR	Dry (2)
D1025F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1025T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1030F	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4005 (AISI 416)	PGA-MR-O	In oil
D1030T	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4005 (AISI 416)	PGA-MR-O	In oil
D1035F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1035T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1100F	Motor case and pump body in technopolymer	Stainless steel	Technopolymer	DIN/EN 1.4021 (AISI 420)	KK	Dry
D1110F	Motor case and pump body in stainless steel	Stainless steel	Stainless steel	DIN/EN 1.4021 (AISI 420)	KK	Dry
D1500F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1500T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1505F	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D1505T	Both in stainless steel, top delivery (1)	Stainless steel	Stainless steel	DIN/EN 1.4401 (AISI 316)	PKA-MR-O	In oil (2)
D1515F	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D1515T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D2000QF	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D2000T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D2005QF	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil
D2005T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN/EN 1.4021 (AISI 420)	PKK-MR-O	In oil

- (1): Can operate partially submerged continuously
- (2): Cooled by the pumped liquid
- (3): GROUND LEVEL DRAINAGE of swimming pools and sites down to approx 2mm of remaining water level

Mechanical seal identification codes:

- GA= carbon graphite, ceramic
- KK= silicon carbide, silicon carbide
- PGA-MR-O= pump side carbon graphite, ceramic - motor side seal ring in oil chamber
- PGA-MRR-O= pump side carbon graphite, ceramic - motor side double seal ring in oil chamber
- PKA-MR-O= pump side silicon carbide, ceramic - motor side seal ring in oil chamber
- PKK-MR-O= pump side silicon carbide, silicon carbide - motor side seal ring in oil chamber
- RR= double seal ring

D800F and D1000F are multistage pumps

D305F, D600F(T): available on request with overprice execution in Stainless Steel AISI 316.

D400F(T), D500F(T), D820F(T), D855F(T), D1025F(T), D1035F(T), D1500F(T), D1515F(T), D2000QF(T), D2005QF(T) available also in execution with vertical delivery.

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Pump and motor construction data  
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Types		DNm G	Ø max solids in susp. free passage mm	max immersion depth (m)	Cable length (m) H07RN-F	Weight in Kg	Electric pump dimensions in mm LxWxH
1 PH 230V 50Hz	3 PH 400V 50Hz						
D305F	-	1"1/4	10	5	10	5,5	154x154x249
D400F	-	1"1/4	7	20	10	9,5	151x135x263
-	D400T	1"1/4	7	20	10	9,5	151x135x263
D405F	-	1"1/4	8	5	10	8,0	165x135x334
D410F	-	1"1/4	4	5	10	5,0	150x150x260
D415F	-	1"	5	5	10	3,2	150x150x250
D500F	-	1"1/4	7	20	10	10,0	151x135x263
-	D500T	1"1/4	7	20	10	10,0	151x135x263
D515F	-	1"1/2	8	5	10	11,0	190x161x374
D600F	-	1"1/4	10	5	10	6,2	154x154x249
-	D600T	1"1/4	10	5	10	6,2	154x154x249
D610F	-	1"	5	5	10	4,2	150x150x250
D620F	-	1"1/4	8	5	10	5,5	152x132x295
D625F	-	1"1/4	2	5	10	5,0	201x133x287
D800F	-	1"1/4	1	5	10	7,5	155x155x390
D810F	-	1"1/2	10	5	10	9,0	212x212x290
-	D810T	1"1/2	10	5	10	9,0	212x212x290
D820F	-	1"1/2	9	20	10	13,5	188x164x317
-	D820T	1"1/2	9	20	10	13,5	188x164x317
D825F	-	1"1/4	5	5	10	8,5	176x176x296
D830F	-	1"1/2	4	5	10	7,5	160x150x325
D835F	-	1"1/4	8	5	10	7,0	152x132x311
D845F	-	1"1/2	8	5	10	11,0	190x161x374
D855F	-	2"	12	20	10	14,5	210x170x345
-	D855T	2"	12	20	10	14,5	210x170x345
D1000F	-	1"1/4	1	5	10	10,0	155x155x440
D1005F	-	1"1/2	10	5	10	11,0	212x212x290
-	D1005T	1"1/2	10	5	10	11,0	212x212x290
D1020F	-	1"1/4	5	5	10	10,0	176x176x296
D1025F	-	1"1/2	9	20	10	14,5	188x164x317
-	D1025T	1"1/2	9	20	10	14,5	188x164x317
D1030F	-	1"1/2	8	5	10	14,0	190x161x374
-	D1030T	1"1/2	8	5	10	14,0	190x161x374
D1035F	-	2"	12	20	10	15,5	210x170x345
-	D1035T	2"	12	20	10	15,5	210x170x345
D1100F	-	1"1/4	8	5	10	7,5	152x132x311
D1110F	-	1"1/2	4	5	10	8,0	160x150x325
D1500F	-	1"1/2	9	20	10	18,5	188x164x363
-	D1500T	1"1/2	9	20	10	18,5	188x164x363
D1505F	-	2"	10	5	10	18,0	212x212x327
-	D1505T	2"	10	5	10	18,0	212x212x327
D1515F	-	2"	12	20	10	20,5	210x170x379
-	D1515T	2"	12	20	10	20,5	210x170x379
D2000QF	-	1"1/2	9	20	10	20,5	188x164x363
-	D2000T	1"1/2	9	20	10	20,5	188x164x363
D2005QF	-	2"	12	20	10	22,5	210x170x379
-	D2005T	2"	12	20	10	22,5	210x170x379

Optional on demand with over price:  
**Compact design with vertical  
Valco MSL float switch level  
regulator for narrow spaces  
for D410F, D830F, D1110F**



**Drainage Submersible Dewatering Heavy Duty Electric Pumps made in special corrosion-resistant aluminium alloy, cast iron or in stainless steel and suitable for drainage Heavy Duty Dewatering applications. - Dernajo™**

### Applications

Suitable for domestic, residential, industrial, agricultural and civil drainage and wastewater sewage uses: dewatering; sump drainage, effluent and sewage; ponds, construction, mines, reclamation, swimming pools, basements and flooded areas, stormwaters, irrigation, stock breeding, food beverage, for waste, sewage and washwater for single and several households and public buildings, for building sites also partially dry, for continuous and heavy duties for most types of fluids also with bodies in suspension in water treatment plants, brackish waters, dirty waters, sludge, industrial processes, etc.



I-36063 Marostica (Vicenza) Italy  
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**DW-HEAVY DRAINAGE Range VALCO BRAND Submersible Dewatering**

Pump and motor construction data  
with limits of use and operating conditions

Types		HP	kW	Q= Performance at 2900 rpm																	In (A) 1x230V	In (A) 3x400V	
1 PH 230V 50Hz	3 PH 400V 50Hz			0	1,5	3	4,5	6	9	12	15	18	21	24	25,2	27	30	36	32	48			54
		m3/h																					
		V/m.																					
DW-800	-	0,8	0,6	15,7		14,9	14,5	13,8	11,7	8,6	4,3											4,3	-
-	DW-800T	0,8	0,6	15,7		14,9	14,5	13,8	11,7	8,6	4,3											-	2,1
DW-805	-	0,8	0,6	11,5	10,3	9,5	8,9	8,2	6,9	5,2	2,6											4,5	-
DW-810	-	0,8	0,6	10,5	9,0	7,8	7,0	6,0	3,4	1,6												4,5	-
DW-1000	-	1	0,75	14,9	14,0	12,8	12,0	11,2	9,2	7,4	5,2	2,6										6,5	-
-	DW-1000T	1	0,75	14,9	14,0	12,8	12,0	11,2	9,2	7,4	5,2	2,6										-	2,6
DW-1200	-	1,2	0,9	19,4		18,5	17,9	17,1	15,2	12,6	9,3	4,4										6,2	-
-	DW-1200T	1,2	0,9	19,4		18,5	17,9	17,1	15,2	12,6	9,3	4,4										-	2,8
DW-1205	-	1,2	0,9	14,7	14,3	14,0	13,6	13,2	12,3	11,3	10,1	8,7	7,3	5,6	4,9	3,9						5,6	-
-	DW-1205T	1,2	0,9	14,7	14,3	14,0	13,6	13,2	12,3	11,3	10,1	8,7	7,3	5,6	4,9	3,9						-	2
DW-1500	-	1,5	1,1	19,5	19,0	18,5	18,0	17,5	16,0	14,0	11,8	9,2	6,8	4,0								9,0	-
-	DW-1500T	1,5	1,1	19,5	19,0	18,5	18,0	17,5	16,0	14,0	11,8	9,2	6,8	4,0								-	3,0
DW-1505	-	1,5	1,1	18,9			18,2	17,9	17,3	16,5	15,5	14,4	13,0	11,5	10,8	9,7	7,7	3,0				13,8	-
-	DW-1505T	1,5	1,1	18,9			18,2	17,9	17,3	16,5	15,5	14,4	13,0	11,5	10,8	9,7	7,7	3,0				-	4,8
DW-1515	-	1,5	1,1	19,7			18,3	17,6	16,2	14,9	13,1	11,0	8,8	6,2	5,0							-	3,0
-	DW-1515T	1,5	1,1	19,7			18,3	17,6	16,2	14,9	13,1	11,0	8,8	6,2	5,0							-	4,8
DW-1520	-	1,5	1,1	17,8			16,3	15,6	14,2	12,6	10,5	8,0	4,7									7,2	-
-	DW-1520T	1,5	1,1	17,8			16,3	15,6	14,2	12,6	10,5	8,0	4,7									-	2,0
DW-1525	-	1,5	1,1	21,1		19,9	19,2	18,5	16,6	14,1	11,0	7,1	2,2									11	-
-	DW-1525T	1,5	1,1	21,1		19,9	19,2	18,5	16,6	14,1	11,0	7,1	2,2									-	4,5
DW-2000	-	2	1,5	31,0			26,4	24,6	21,0	17,5	13,8	9,9	6,0									12,0	-
DW-2005	-	2	1,5	23,1			22,3	22,1	21,4	20,7	19,8	18,8	17,5	16,1	15,5	14,4	12,5	7,7				16,5	-
-	DW-2005T	2	1,5	23,1			22,3	22,1	21,4	20,7	19,8	18,8	17,5	16,1	15,5	14,4	12,5	7,7				-	5,9
DW-2010	-	2	1,5	23,1			20,8	20,1	18,7	17,1	15,0	12,1	8,3	2,8								12,5	-
-	DW-2010T	2	1,5	23,1			20,8	20,1	18,7	17,1	15,0	12,1	8,3	2,8								-	5
DW-2015	-	2	1,5	17,9	17,7	17,6	17,4	17,2	16,7	16,0	15,2	14,1	12,9	11,6	11,0	10,0	8,3	4,4				8,8	-
-	DW-2015T	2	1,5	17,9	17,7	17,6	17,4	17,2	16,7	16,0	15,2	14,1	12,9	11,6	11,0	10,0	8,3	4,4				-	3,8
DW-2020	-	2	1,5	14,4			14,0	13,8	13,4	12,9	12,4	11,7	11,0	10,2	9,9	9,3	8,1	6,0				12	-
DW-2500	-	2,5	1,8	32,0			29,2	27,6	23,9	20,5	17,0	13,3	9,0	3,9								14,0	-
-	DW-2500T	2,5	1,8	32,0			29,2	27,6	23,9	20,5	17,0	13,3	9,0	3,9								-	4,6
DW-2505	-	2,5	1,8	16,4			16,3	16,2	15,9	15,5	14,9	14,2	13,7	13,2	12,9	12,4	11,1	8,6	6,2	3,3		14	-
-	DW-2505T	2,5	1,8	16,4			16,3	16,2	15,9	15,5	14,9	14,2	13,7	13,2	12,9	12,4	11,1	8,6	6,2	3,3		-	4,6
DW-3005T	-	3	2,2	26,4			25,7	25,4	24,8	24,1	23,3	22,4	21,2	19,9	19,3	18,3	16,5	11,8	5,8			-	6,9
DW-3010T	-	3	2,2	26,0			24,6	24,0	22,5	20,9	19,2	17,5	15,0	11,1	9,3	6,6	2,0					-	6,0
DW-3015T	-	3	2,2	18,8			18,5	18,4	18,1	17,8	17,3	16,6	16,0	15,1	14,7	14,1	12,8	10,6	8,2	5,2		-	5
DW-4005T	-	4	3	33,8			32,1	31,5	30,4	29,2	28,0	26,7	25,4	23,9	23,3	22,3	20,6	16,5	11,7	5,8		-	8,9
DW-5500T	-	5,5	4	50,5		49,0	48,3	47,0	43,0	41,0	37,0	33,0	27,0	18,0								-	9,8
DW-5505T	-	5,5	4	38,7			36,8	36,1	34,9	33,6	32,3	30,9	29,5	28,0	27,4	26,4	24,7	20,7	16,1	10,5		-	10,7
DW-7500T	-	7,5	5,5	71,8		70,0	69,0	68,0	65,0	63,0	60,0	56,0	52,0	48,0	45,5	40,0	30,0					-	12,6
DW-7505T	-	7,5	5,5	47,8			44,8	43,6	42,4	41,2	40,1	39,0	37,8	37,2	36,4	35,0	31,5	27,1	21,3	14,0		-	15,3
DW-10A00T	-	10	7,5	91,7		91,0	90,5	90,0	87,4	84,0	80,0	75,0	69,0	63,6	60,0	53,0	40,0					-	15,6
DW-10A05T	-	10	7,5	55,3			52,0	50,6	49,3	48,1	46,9	45,7	44,5	44,0	43,2	41,8	38,4	34,0	28,3	20,8		-	17,5

• Reduction in speed will result in a fall of performance. • DO NOT RUN PUMP DRY! • Tolerances according to ISO 9906 Grade 3B.

Types		DNmm	Ø max solids in susp. free passage (mm)	max immersion depth (m)	Cable length (m) H07RN-F	Weight in Kg	Electric pump dimensions in mm LxWxH
1 PH 230V 50Hz	3 PH 400V 50Hz						
DW-800	-	1 1/2	10	5	10	12,0	220x170x331
-	DW-800T	1 1/2	10	5	10	12,0	220x170x332
DW-805	-	1 1/2	8	5	10	13,0	213,5x190x300
DW-810	-	1 1/2	8	5	10	13,0	213,5x190x300
DW-1000	-	1 1/2	8	5	10	13,5	213,5x190x300
-	DW-1000T	1 1/2	8	5	10	13,5	213,5x190x300
DW-1200	-	1 1/2	10	5	10	14,0	220x170x330
-	DW-1200T	1 1/2	10	5	10	14,0	220x170x333
DW-1205	-	2"	6	20	10	18,0	207x206x424
-	DW-1205T	2"	6	20	10	18,0	207x206x424
DW-1500	-	1 1/2	8	5	10	18,2	213,5x190x344
-	DW-1500T	1 1/2	8	5	10	18,2	213,5x190x344
DW-1505	-	2"	10	20	10	36,5	291x234x513
-	DW-1505T	2"	10	20	10	36,5	291x234x513
DW-1520	-	1 1/2	6	20	10	20,0	290x190x390
-	DW-1520T	1 1/2	6	20	10	20,0	290x190x390
DW-1525	-	2"	8	5	10	25,5	250x190x378
-	DW-1525T	2"	8	5	10	25,5	250x190x378
DW-2000	-	1 1/2 M	6	20	10	22,0	290x191x429
DW-2005	-	2"	10	20	10	37,5	291x234x513
-	DW-2005T	2"	10	20	10	37,5	291x234x513
DW-2010	-	2"	8	5	10	28,5	250x190x378
-	DW-2010T	2"	8	5	10	28,5	250x190x378
DW-2015	-	2"	6	20	10	20,0	207x206x424
-	DW-2015T	2"	6	20	10	20,0	207x206x424
DW-2020	-	2"	6	20	10	23,0	326x233x445
DW-2500	-	1 1/2 M	6	20	10	25,0	290x191x429
-	DW-2500T	1 1/2 M	6	20	10	22,0	290x191x429
DW-2505	-	2"	6	20	10	27,0	326x233x445
-	DW-2505T	2"	6	20	10	25,0	326x233x445
DW-3005T	-	2"	10	20	10	37,6	291x234x513
DW-3010T	-	2"	8	5	10	29,5	250x190x378
DW-3015T	-	2"	6	20	10	26,0	326x233x445
DW-4005T	-	50	10	20	10	56,0	347x320x595
DW-5500T	-	3"	0,1	20	10	48,0	204x204x651
DW-5505T	-	50	10	20	10	61,6	347x320x595
DW-7500T	-	3"	0,1	20	10	57,0	204x204x651
DW-7505T	-	65	10	20	10	91,1	430x360x680
DW-10A00T	-	3"	0,1	20	10	68,0	204x204x651
DW-10A05T	-	65	10	20	10	93,5	430x360x680



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**DW-HEAVY DRAINAGE Range VALCO BRAND Submersible Dewatering**

Pump and motor construction data  
 with limits of use and operating conditions

**OPERATING CONDITIONS (LIMITS OF USE)**

Maximum temperature of pumped liquid °C	0 +35
pH of pumped liquid	6 - 10
Density of pumped liquid with $\gamma$ =water specific gravity kg/dm3	1
Presence of solids in suspension	suitable for rain, ground and sandy waters compatible with the materials and with the free passage of the pump.
Installation type	Submerged. See note (1) below

**MOTOR**

Asynchronous Electric motor.	
Number of poles	2
Insulation class	F
Degree of protection IP	68
Service	Continuous duty
Maximum tolerance (fluctuation) from the nominal voltage	±6%
Starts per hour max	30 up to 1,8 kW, 20 for 2,2 kW and above

3phase version the overload motor protection must be provided by the user (we recommend the use of a control box)

1 phase: supplied as standard with built in thermal protection, optional on demand with over price in external control box for DW-1505 and DW-2005

Float switch: optional on demand with over price

Types		Construction materials					
1 PH 230V 50Hz	3 PH 400V 50Hz	Pump	Impeller	Wear plate	Shaft (pump side) stainless steel	Mechanical seal codes	Motor chamber
DW-800	-	Motor case in stainless steel, pump body in cast iron (1)	Brass	Cast iron	DINEN 1.4016 (AISI 430)	PKK-MR-O	Dry
-	DW-800T	Motor case in stainless steel, pump body in cast iron (1)	Brass	Cast iron	DINEN 1.4016 (AISI 430)	PKK-MR-O	Dry
DW-805	-	Motor case in stainless steel, pump body in cast iron (1)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
DW-810	-	Motor case in stainless steel, pump body in cast iron (1)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
DW-1000	-	Motor case in stainless steel, pump body in cast iron (1)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
-	DW-1000T	Motor case in stainless steel, pump body in cast iron (1)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
DW-1200	-	Motor case in stainless steel, pump body in cast iron (1)	Brass	Cast iron	DINEN 1.4016 (AISI 430)	PKK-MR-O	Dry
-	DW-1200T	Motor case in stainless steel, pump body in cast iron (1)	Brass	Cast iron	DINEN 1.4016 (AISI 430)	PKK-MR-O	Dry
DW-1205	-	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DINEN 1.4021 (AISI 420)	PKK-MR-O	Dry
-	DW-1205T	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DINEN 1.4021 (AISI 420)	PKK-MR-O	Dry
DW-1500	-	Motor case in stainless steel, pump body in cast iron (1)	Cast iron	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
-	DW-1500T	Motor case in stainless steel, pump body in cast iron (1)	Cast iron	Cast iron	DINEN 1.4401 (AISI 316)	PKA-MR-O	In oil
DW-1505	-	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-1505T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-1515T	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4021 (AISI 420)	KK	In oil
DW-1520	-	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4021 (AISI 420)	KK	In oil
-	DW-1520T	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4021 (AISI 420)	KK	In oil
DW-1525	-	Motor case in stainless steel, pump body in cast iron	Cast iron	Stainless steel	DINEN 1.4401 (AISI 316)	PKA-MGA-O	In oil
-	DW-1525T	Motor case in stainless steel, pump body in cast iron	Cast iron	Stainless steel	DINEN 1.4401 (AISI 316)	PKA-MGA-O	In oil
DW-2000	-	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4057 (AISI 431)	KK	In oil
DW-2005	-	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-2005T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
DW-2010	-	Motor case in stainless steel, pump body in cast iron	Cast iron	Stainless steel	DINEN 1.4401 (AISI 316)	PKA-MGA-O	In oil
-	DW-2010T	Motor case in stainless steel, pump body in cast iron	Cast iron	Stainless steel	DINEN 1.4401 (AISI 316)	PKA-MGA-O	In oil
DW-2015	-	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DINEN 1.4021 (AISI 420)	PKK-MR-O	Dry
-	DW-2015T	Motor case in stainless steel, pump body in cast iron	Cast iron	Cast iron	DINEN 1.4021 (AISI 420)	PKK-MR-O	Dry
DW-2020	-	Motor case and pump body in aluminium (1)	Cast iron	Aluminium (3)	DINEN 1.4021 (AISI 420)	KK	In oil
DW-2500	-	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4057 (AISI 431)	KK	In oil
-	DW-2500T	Motor case and pump body in aluminium (1)	Cast iron	Stainless steel	DINEN 1.4057 (AISI 431)	KK	In oil
DW-2505	-	Motor case and pump body in aluminium (1)	Cast iron	Aluminium (3)	DINEN 1.4021 (AISI 420)	KK	In oil
-	DW-2505T	Motor case and pump body in aluminium (1)	Cast iron	Aluminium (3)	DINEN 1.4021 (AISI 420)	KK	In oil
-	DW-3005T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-3010T	Motor case in stainless steel, pump body in cast iron	Cast iron	Stainless steel	DINEN 1.4401 (AISI 316)	PKA-MGA-O	In oil
-	DW-3015T	Motor case and pump body in aluminium (1)	Cast iron	Aluminium (3)	DINEN 1.4021 (AISI 420)	KK	In oil
-	DW-4005T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-5500T	Motor case and pump body in stainless steel (2)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKK-MGA-O	In oil
-	DW-5505T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-7500T	Motor case and pump body in stainless steel (2)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKK-MGA-O	In oil
-	DW-7505T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil
-	DW-10A00T	Motor case and pump body in stainless steel (2)	Stainless steel	Cast iron	DINEN 1.4401 (AISI 316)	PKK-MGA-O	In oil
-	DW-10A05T	Motor case and pump body in cast iron	Cast iron	Cast iron	DIN EN 1.4301 (AISI 304)	PKK-MGA-O	In oil

- (1): Vertical delivery
- (2): Can operate partially submerged continuously. Cooled by the pumped liquid
- (3): Abrasion resistant rubber coated

Mechanical seal identification codes:

- GA= carbon graphite, ceramic
- KK= silicon carbide, silicon carbide
- PKA-MR-O= pump side silicon carbide, ceramic - motor side seal ring in oil chamber
- PKK-MR-O= pump side silicon carbide, silicon carbide - motor side seal ring in oil chamber
- PKK-MGA-O= pump side silicon carbide, silicon carbide - motor side carbon graphite, ceramic in oil chamber
- PKA-MGA-O= pump side silicon carbide, ceramic - motor side carbon graphite, ceramic in oil chamber

**VALCO DBH Heavy Duty Drainage Submersible Dewatering Contractors' Electric Pumps for muddy and sandy waters, suitable to operate in hard conditions also not fully submerged. Delivery outlet up to 6". - Dernajo™**

### Applications

Suitable for domestic, residential, industrial, agricultural and civil drainage and wastewater sewage uses: dewatering; sump drainage, effluent and sewage; ponds, construction, mines, reclamation, swimming pools, basements and flooded areas, stormwaters, irrigation, stock breeding, food beverage, for waste, sewage and washwater for single and several households and public buildings, for building sites also partially dry, for continuous and heavy duties for most types of fluids also with bodies in suspension in water treatment plants, brackish waters, dirty waters, sludge, industrial processes, etc.





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**DBH-CONTRACTORS Range VALCO BRAND Heavy Duty Drainage Submersible  
Dewatering Contractors' Electric Pumps - Dernajo™**

Pump and motor construction data  
with limits of use and operating conditions

Types		HP	kW	Q= Performance at 2900 rpm																	In (A) 1x230 V	In (A) 3x400 V			
1 PH 230V 50Hz	3 PH 400V 50Hz			0	8	16	24	32	40	48	56	64	72	90	108	126	144	162	180	216			252	288	
DBH-3010	-	3	2,2	20,0	17,7	16,0	13,6	10,7	6,9	3,9												20,0	-		
-	DBH-3010T	3	2,2	20,0	17,7	16,0	13,6	10,7	6,9	3,9												-	6,5		
DBH-3015	-	3	2,2	16,0	14,9	13,7	12,3	10,5	8,7	6,7												14,0	-		
-	DBH-3015T	3	2,2	16,0	14,9	13,7	12,3	10,5	8,7	6,7												-	5,2		
DBH-3510	-	3,5	2,5	24,0	21,4	17,7	9,6															16,5	-		
-	DBH-3510T	3,5	2,5	24,0	21,4	17,7	9,6															-	6,0		
-	DBH-4000T	4	3	21,0	18,8	17,2	15,2	13,0	11,1	8,5	6,0	4,0	2,0									-	9,5		
-	DBH-5002T	5	3,7	26,0	24,0	22,1	20,0	17,2	13,6	9,8												-	9,5		
-	DBH-5010T	5	3,7	21,0	20,4	19,3	18,0	16,4	14,5	11,8	8,9	6,5	4,0									-	8,0		
-	DBH-5500T	5,5	4	23,3	22,8	22,2	21,0	19,8	18,0	16,9	15,5	13,6	11,5	6,5								-	9,9		
-	DBH-5505T	5,5	4	23,0	22,0	20,8	19,0	17,6	15,8	13,7	11,3	8,7	5,9									-	13,0		
-	DBH-7000T	7	5,2	29,9	28,4	26,6	24,6	22,2	19,6	16,6	13,4	10,0	6,2									-	11,0		
-	DBH-7005T	7	5,2	19,2	18,4	17,6	16,7	15,9	15,0	14,1	13,3	12,4	11,5	9,4	7,3	5,1	2,8					-	11,0		
-	DBH-7507T	7,5	5,5	34,0	31,0	29,0	26,0	22,5	20,0	16,0	12,0	9,5	7,5									-	14,5		
-	DBH-7510T	7,5	5,5	32,0	30,4	28,1	26,3	23,8	20,3	16,5	12,4	7,5										-	11,5		
-	DBH-10A05T	10	7,5	35,2	32,8	30,3	27,6	24,8	21,9	18,8	15,6	12,2	8,7									-	13,0		
-	DBH-10A06T	10	7,5	39,7	37,3	34,8	32,1	29,2	26,1	22,8	19,4	15,8	12,0									-	17,5		
-	DBH-10A065T	10	7,5	34,0	32,7	31,2	29,5	27,6	25,6	23,4	21,0	18,5	15,8	9,4								-	17,5		
-	DBH-10A07T	10	7,5	34,0	32,0	30,0	28,4	26,3	23,5	20,6	17,7	15,4	11,5									-	12,5		
-	DBH-10A08T	10	7,5	31,0	29,9	28,9	27,8	26,7	25,6	24,4	23,1	21,6	19,9	15,4	9,4							-	19,0		
-	DBH-10A10T	10	7,5	22,7	22,1	21,4	20,6	19,9	19,0	18,2	17,3	16,3	15,4	13,1	10,7	8,3	5,8	3,3					-	13,0	
-	DBH-11A10T	11	8,1	26,0	25,3	24,6	23,8	23,0	22,2	21,4	20,5	19,7	18,8	16,6	14,4	12,0	9,5	6,9	3,0					-	16,0
-	DBH-15A0AT	15	11	60,0	53,9	50,7	47,6	44,3	41,0	37,5	33,7	30,0	21,0	9,5									-	24,0	
-	DBH-15A10T	15	11	30,0	28,7	28,0	27,3	26,7	26,0	25,3	24,9	24,3	22,4	20,7	18,5	16,0	13,8	10,9	2,0					-	24,0
-	DBH-16A05T	16,5	12,5	45,0	42,5	40,0	36,2	32,8	29,0	25,2	22,0	18,5	15,0	7,8									-	23,0	
-	DBH-16A10T	16,5	12,5	40,6	39,0	37,2	35,1	32,9	30,6	28,0	25,4	22,7	19,8	13,1	6,2								-	23,0	
-	DBH-16A15T	16,5	12,5	39,9	38,2	36,6	35,1	33,7	32,3	30,9	29,4	27,8	26,1	21,7	15,9	8,4							-	23,0	
-	DBH-20A00T	20	15	62,0	56,7	54,2	52,2	49,9	47,6	45,5	43,3	40,6	34,0	26,5	19,5	2,0							-	33,0	
-	DBH-20A02T	20	15	50,1	48,3	46,7	45,0	43,3	41,6	39,8	37,9	35,8	28,0	21,1	12,6	7,7							-	29,0	
-	DBH-20A03T	20	15	45,2	43,1	41,0	38,7	36,4	34,0	31,6	29,0	26,4	23,6	17,1	10,0								-	30,0	
-	DBH-20A05T	20	15	34,0	34,0	32,1	31,4	30,8	30,2	29,5	28,9	28,5	28,0	26,5	25,0	22,5	20,5	18,3	16,0	10,0	2,0		-	33,0	
-	DBH-30A00T	30	22	35,0																		15,0	11,0	-	46,0

• Reduction in speed will result in a fall of performance. • DO NOT RUN PUMP DRY! • Tolerances according to ISO 9906 Grade 3B.

On demand double voltage 400/690V for SD starting from 11 kW. Other voltages on demand.

Types		DNm (1)	Diam. Hose connection	Ø max solids in susp. Free passage mm	max immersion depth (m)	Cable length (m) H07RN-F	Weight in Kg	Electric pump dimensions in mm LxWxH
1 PH 230V 50Hz	3 PH 400V 50Hz							
DBH-3010	-	3"	-	10	5	10	38	203x203x551
-	DBH-3010T	3"	-	10	5	10	38	203x203x551
DBH-3015	-	2 1/2"	70	6	20	10	33	284x227x534
-	DBH-3015T	2 1/2"	70	6	20	10	30	284x227x534
DBH-3510	-	2"	-	10	10	10	45	240x218x580
-	DBH-3510T	2"	-	10	10	10	45	240x218x580
-	DBH-4000T	3"	-	10	5	10	38	203x203x551
-	DBH-5002T	3"	-	10	10	10	60	299x254x543
-	DBH-5010T	2 1/2"	70	6	20	10	31	284x227x534
-	DBH-5500T	2 1/2"	70	6	20	10	35	284x227x534
-	DBH-5505T	3"	-	10	5	10	43	203x203x551
-	DBH-7000T	4"	100	10	20	20	125	333x333x811
-	DBH-7005T	4"	100	10	20	20	125	333x333x811
-	DBH-7507T	4"	-	10	20	10	90	360x360x840
-	DBH-7510T	3"	-	10	10	10	62	299x254x543
-	DBH-10A05T	4"	100	10	20	20	130	333x333x811
-	DBH-10A06T	4"	-	10	20	10	92	360x360x840
-	DBH-10A065T	4"	-	10	20	10	92	360x360x840
-	DBH-10A07T	4"	-	10	10	10	90	337x255x706
-	DBH-10A08T	4"	-	10	10	10	102	350x265x780
-	DBH-10A10T	4"	100	10	20	20	130	460x335x722
-	DBH-11A10T	4"	100	10	20	20	135	333x333x811
-	DBH-15A0AT	4"	100	6	20	20	175	333x333x811
-	DBH-15A10T	6"	150	6	20	20	175	395x395x877
-	DBH-16A05T	4"	-	10	20	10	96	360x360x840
-	DBH-16A10T	4"	-	10	20	10	96	360x360x840
-	DBH-16A15T	4"	-	10	10	10	108	350x265x780
-	DBH-20A00T	4"	100	6	20	20	185	395x395x877
-	DBH-20A02T	4"	-	10	10	10	110	350x265x780
-	DBH-20A03T	4"	-	10	20	10	96	360x360x840
-	DBH-20A05T	6"	150	6	20	20	185	395x395x877
-	DBH-30A00T	6"	150	7	20	20	183	690x507x1110

(1) Pumps with hose connection are also available with threaded connection



I-36063 Marostica (Vicenza) Italy  
www.valco.eu

**DBH-CONTRACTORS Range VALCO BRAND Heavy Duty Drainage Submersible  
Dewatering Contractors' Electric Pumps - Dernaj™**

Pump and motor construction data  
with limits of use and operating conditions

**OPERATING CONDITIONS (LIMITS OF USE)**

Maximum temperature of pumped liquid °C	0 +35
pH of pumped liquid	6 - 10
Density of pumped liquid with $\gamma$ =water specific gravity kg/dm <sup>3</sup>	1
Presence of solids in suspension	suitable for rain, ground and sandy waters from construction sites for pumping water containing abrasive particles compatible with the materials and with the free passage of the pump.
Installation type	Submerged (partially submerged for short periods). See note (2) below

**MOTOR**

<b>Asynchronous Electric motor.</b>	
Number of poles	2
Insulation class	F
Degree of protection IP	68
Service	Continuous duty
Maximum tolerance (fluctuation) from the nominal voltage	±6%
Starts per hour max	30 up to 2.2 kW, 20 up to 4 kW, 10 from 5.2 kW and above.

3phase version the overload motor protection must be provided by the user (we recommend the use of a control box)

1phase version with capacitor housed into an external box. DBH-3010 and DBH-3510 with inside overload motor protection.

Types	Construction materials					
	Pump	Impeller	Wear plate	Shaft (pump side) stainless steel	Mechanical seal codes	Motor chamber
DBH-3010	Motor case and pump body in stainless steel (2)	Special stainless steel	abrasion resistant rubber coated steel	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-3010T	Motor case and pump body in stainless steel (2)	Special stainless steel	abrasion resistant rubber coated steel	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-3015	Motor case and pump body in aluminium	Cast iron	abrasion resistant rubber coated aluminium	DIN/EN 1.4021 (AISI 420)	PKK-MGA-O	DRY
DBH-3015T	Motor case and pump body in aluminium	Cast iron	abrasion resistant rubber coated aluminium	DIN/EN 1.4021 (AISI 420)	PKK-MGA-O	DRY
DBH-3510	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4301 (AISI 304)	PKA-MRR-O	IN OIL
DBH-3510T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4301 (AISI 304)	PKA-MRR-O	IN OIL
DBH-4000T	Motor case and pump body in stainless steel (2)	Special stainless steel	abrasion resistant rubber coated steel	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-5002T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-5010T	Motor case and pump body in aluminium	Stainless steel	abrasion resistant rubber coated aluminium	DIN/EN 1.4021 (AISI 420)	PKK-MGA-O	DRY
DBH-5500T	Motor case and pump body in aluminium	Stainless steel	abrasion resistant rubber coated aluminium	DIN/EN 1.4021 (AISI 420)	PKK-MGA-O	DRY
DBH-5505T	Motor case and pump body in stainless steel (2)	Special stainless steel	abrasion resistant rubber coated steel	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-7000T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-7005T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-7507T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-7510T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-10A05T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-10A06T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-10A065T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-10A07T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-10A08T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-10A10T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-11A10T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-15A0AT	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-15A10T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-16A05T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-16A10T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-16A15T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-20A00T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-20A02T	Motor case and pump body in cast iron	Treated cast iron	Cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	IN OIL
DBH-20A03T	Motor case in stainless steel, pump body in cast iron (1) (2)	Treated cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4401 (AISI 316)	PKK-MGA-O	DRY
DBH-20A05T	Motor case in stainless steel, pump body in cast iron (1) (2)	Chromium cast iron	abrasion resistant rubber coated cast iron	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY
DBH-30A00T	Motor case and pump body in aluminium (1) (2)	Stainless steel	abrasion resistant rubber coated stainless steel	DIN/EN 1.4057 (AISI 431)	PKK-MGA-O	DRY

(1): Abrasion resistant rubber coated pump body  
(2): Can operate partially submerged continuously  
Suction strainer in stainless steel DIN/EN 1.4301 (AISI 304); DBH-30A00T in aluminium

Mechanical seal identification codes:  
PKK-MGA-O= pump side silicon carbide, silicon carbide - motor side carbon graphite, ceramic in oil chamber  
PKA-MGA-O= pump side silicon carbide, ceramic - motor side carbon graphite, ceramic in oil chamber  
PKA-MRR-O= pump side silicon carbide, ceramic - motor side double seal ring in oil chamber