

**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**

