

**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  
www.valco.eu

**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) 1x230 V	In (A) 3x400 V
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		
		Hm= Total head in meters w.c.																				
		m3/h	0	1,5	3	4,5	6	9	12	15	18	21	24	25,2	27	30	36	32	48	54		
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-800T	0,8	0,6	11,5	10,3	9,5	8,9	8,2	6,9	5,2	2,6										-	2,1
DW-1000	-	1	0,75	10,5	9,0	7,8	7,0	6,0	3,4	1,6											4,5	-
-	DW-1000T	1	0,75	10,5	9,0	7,8	7,0	6,0	3,4	1,6											-	2,6
DW-1200	-	1,2	0,9	14,9	14,0	12,8	12,0	11,2	9,2	7,4	5,2	2,6									6,2	-
-	DW-1200T	1,2	0,9	14,9	14,0	12,8	12,0	11,2	9,2	7,4	5,2	2,6									-	2,6
DW-1205	-	1,2	0,9	19,4	18,5	17,9	17,1	15,2	12,6	9,3	4,4										5,6	-
-	DW-1205T	1,2	0,9	19,4	18,5	17,9	17,1	15,2	12,6	9,3	4,4										-	2,8
DW-1500	-	1,5	1,1	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					9,0	-
-	DW-1500T	1,5	1,1	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-1505	-	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							13,8	-
-	DW-1505T	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-1520	-	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-1520T	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			-	3,0
DW-1525	-	1,5	1,1	19,7			18,3	17,6	16,2	14,9	13,1	11,0	8,8	6,2	5,0						7,2	-
-	DW-1525T	1,5	1,1	19,7			18,3	17,6	16,2	14,9	13,1	11,0	8,8	6,2	5,0						-	2,0
DW-2000	-	2	1,5	21,1		19,9	19,2	18,5	16,6	14,1	11,0	7,1	2,2								11	-
-	DW-2000T	2	1,5	21,1		19,9	19,2	18,5	16,6	14,1	11,0	7,1	2,2								-	4,5
DW-2005	-	2	1,5	31,0			26,4	24,6	21,0	17,5	13,8	9,9	6,0								12,0	-
-	DW-2005T	2	1,5	31,0			26,4	24,6	21,0	17,5	13,8	9,9	6,0								-	16,5
DW-2010	-	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-2010T	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-2015	-	2	1,5	23,1			20,8	20,1	18,7	17,1	15,0	12,1	8,3	2,8							12,5	-
-	DW-2015T	2	1,5	23,1			20,8	20,1	18,7	17,1	15,0	12,1	8,3	2,8							-	5
DW-2500	-	2,5	1,8	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-2500T	2,5	1,8	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-2505	-	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-2505T	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-3010T	-	3	2,2	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-3010T	3	2,2	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-3015T	-	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-3015T	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		-	6,0
DW-4005T	-	4	3	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	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-5500T	-	5,5	4	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	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-5505T	-	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	50,5		49,0	48,3	47,0	43,0	41,0	37,0	33,0	27,0	18,0							-	9,8
DW-7505T	-	7,5	5,5	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-7505T	7,5	5,5	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-10A00T	-	10	7,5	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-10A00T	10	7,5	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-10A05T	-	10	7,5	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-10A05T	10	7,5	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-10A05T	-	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	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
-	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-3005T	2"	10	20	10	37,6	291x234x513
DW-3010T	-	2"	8	5	10	29,5	250x190x378
-	DW-3010T	2"	8	5	10	29,5	25



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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