

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.



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

**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	25,5	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																			-	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



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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 γ =water specific gravity kg/dm ³	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

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 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