

LIGHTWEIGHT
SUBMERSIBLE DEWATERING PUMP

HYDRO FORCE - 150 - T

DW1100T0008
SERIES 50HZ



HYDRO FORCE - 150 - T

Light Weight Submersible Dewatering Pump

50 HZ

POWER: 15HP (11kW)
MAX HEAD: 50 meters
MAX FLOW: 1800 lpm



DW1100T0008

Features

- Closed impeller design made of High Chrome Steel
- High resistance to abrasive liquids
- Stainless Steel outer casing & strainer
- EKK Eagle Burgmann double mechanical seal CA/CE & SIC/SIC
- Heat Treated Stainless Steel Shaft in AISI 410/420
- Efficient circumferential cooling for continuous duty

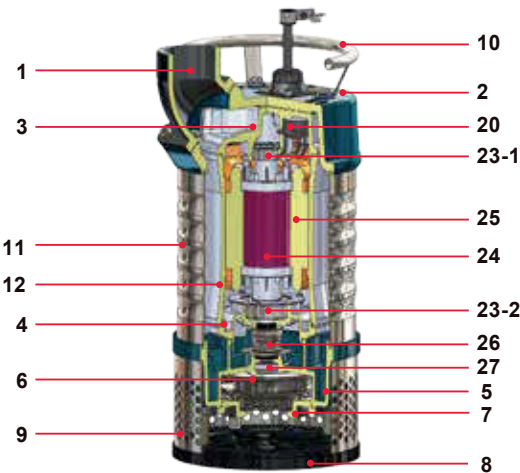
Parts and Material List

No.	Part	Material
1	Discharge	AISI7Mg
2	Upper Cover	AISI7Mg
3	Motor Cover	AISI7Mg
4	Lower Bearing Bracket	EN-GJL-200
5	Pump Casing	EN-GJL-200 (10HP) ; EN-GJS-700 (15~20HP)
6	Impeller	High Chrome Steel
7	Suction Plate	EN-GJS-700 (10HP)
7-1	Seal Housing	AISI7Mg / NBR (15~20HP)
8	Base Plate	AISI7Mg
9	Strainer	AISI 304
10	Handle	AISI 304
11	Outer Casing	AISI 304
12	Motor Frame	AISI7Mg
20	Protector	YAMADA
23-1	Upper Bearing	NTN/TPI
23-2	Lower Bearing	NTN/TPI
24	Rotor and Shaft	AISI 410 (10HP) ; AISI 420 (15~20HP)
25	Stator	-
26	Mechanical Seal	Upper:CA/CE
		Lower:SIC/SIC
27	Lip Seal	NBR

TPI is a family brand of NTN group.

Applications

- Site drainage, mining, tunneling, public works, floods
- Cement industry, river intake, civil engineering projects



HYDRO FORCE - 150 - T



DW1100T0008

Specifications

ITEM		DESCRIPTION
LIMITS OF USE	Liquid Temp.	0~40°C(32~104°F)
	Application	As suggested application page 1
TYPE	Frequency	50Hz
	Motor	2P (2850RPM) . Dry Motor
	Insulation	10HP : Class F ; 15~20HP : Class H
	Protection	IP 68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mech. Seal	Double Mechanical Seal
	Impeller	Closed Impeller
MATERIAL	Motor Cover	AlSi7Mg
	Motor Housing + Stator	AlSi7Mg
	Shaft with Rotor	10HP : AISI 410 ; 15~20HP : AISI 420
	Mech. Seal	Upper : CA / CE ; Lower : SIC / SIC
	Pump Casing	10HP : EN-GJL-200 ; 15~20HP : EN-GJS-700
	Impeller	High Chrome Steel
	Cable	H07RN-F / STOW



High Chrome Steel closed Impeller

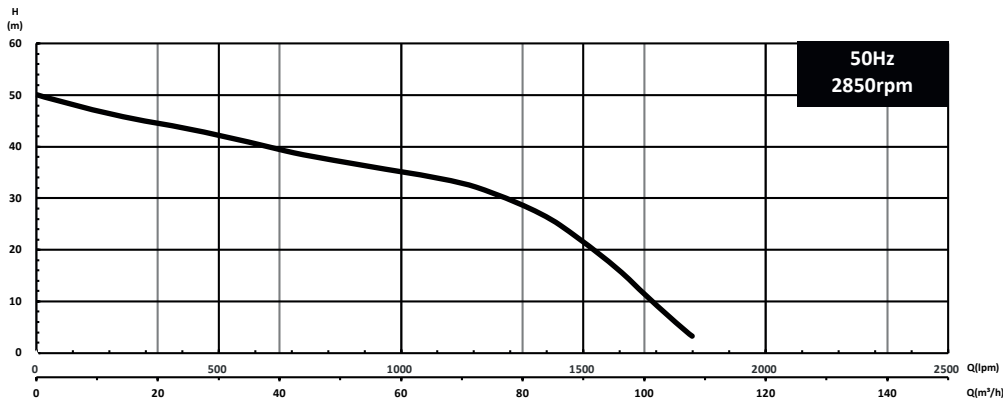


Expelling solid design on the back of the impeller

Data Chart

MODEL	OUTPUT		DISCHARGE	PHASE	3Ø			RATED		MAXIMUM		FREE PASSAGE	WEIGHT W/O CABLE
	HP	kW	Inch	FULL LOAD AMPERAGE	380V	400V	415V	m	lpm	m	lpm	mm	3Ø-kg
DW1100T0008	15	11	4"		23A	22A	22A	35	1000	50	1800	10	104

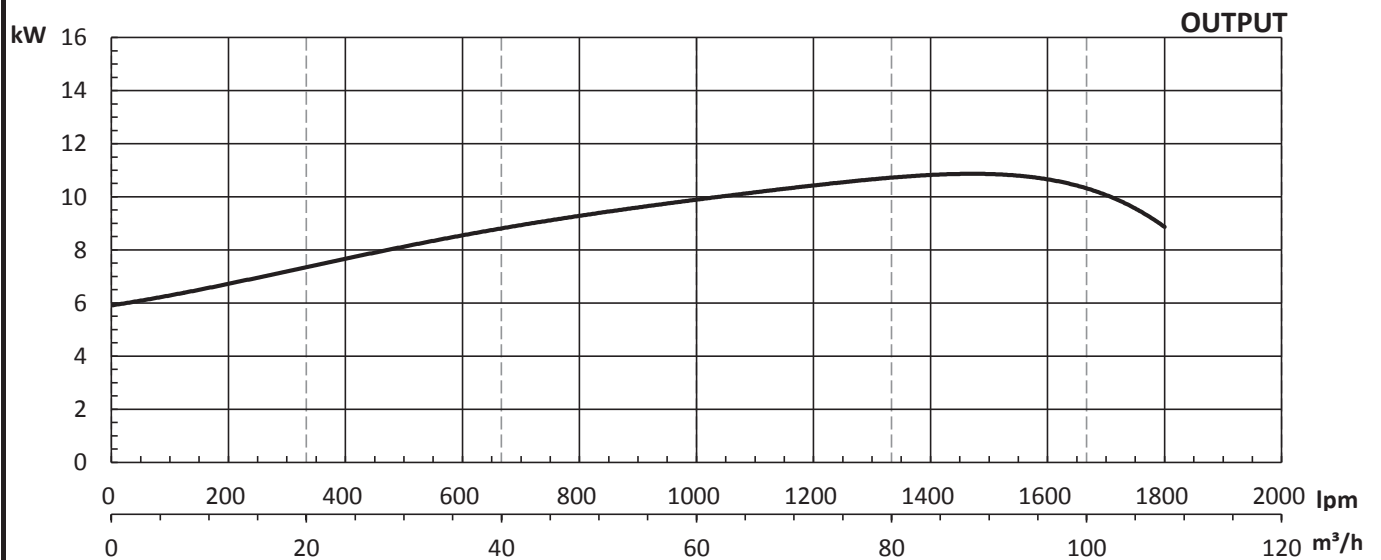
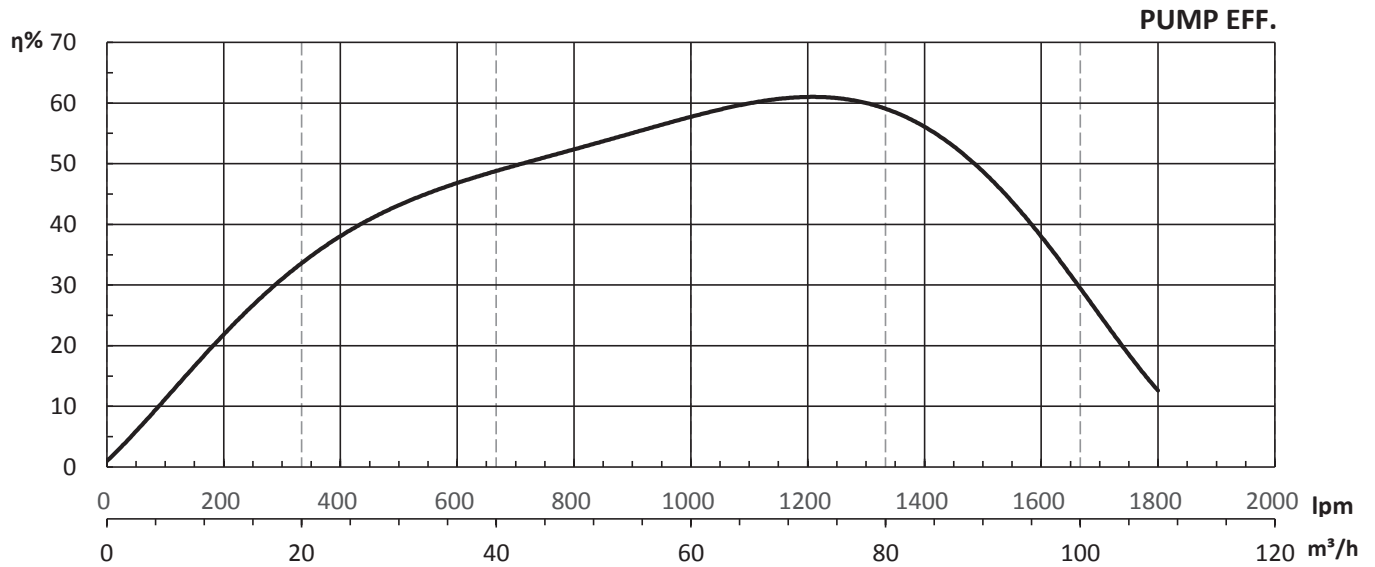
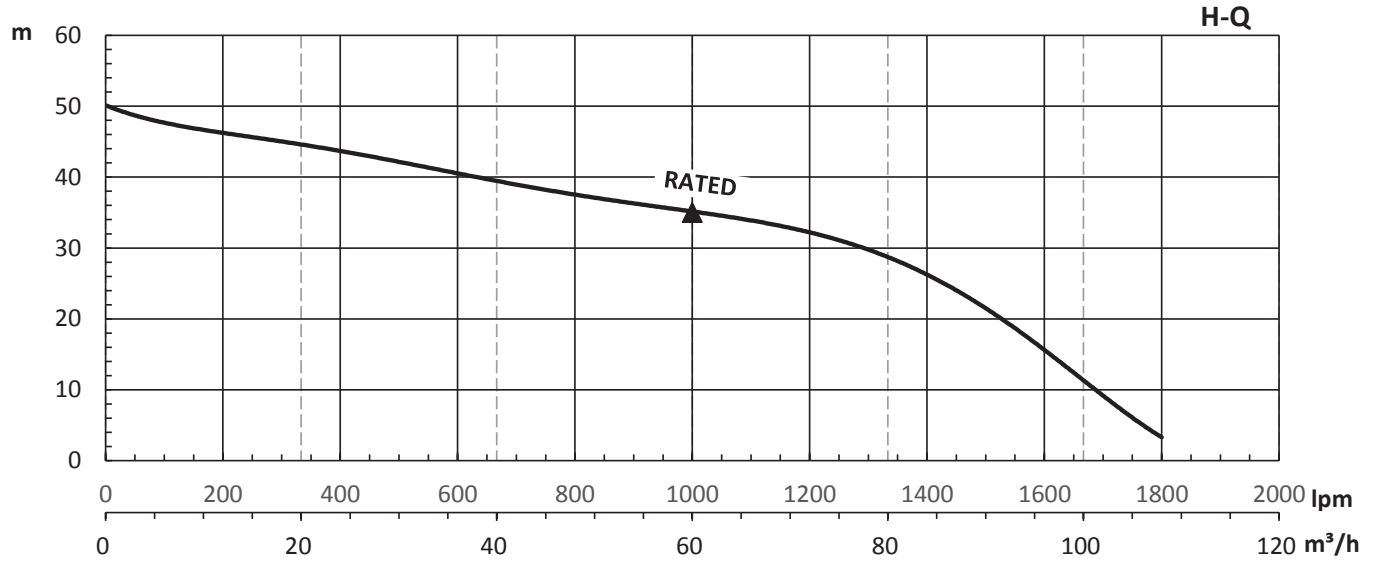
Performance Curve



MODEL	OUTPUT		DISCHARGE	Q(lpm)	0	500	1000	1500	2250	Q(m³/h)	0	20	60	100	135
	HP	kW	Inch		H(m)	49.5	42	35	21.5	H(m)	49.5	44.5	35	11.3	-
DW1100T0008	15	11	4"												

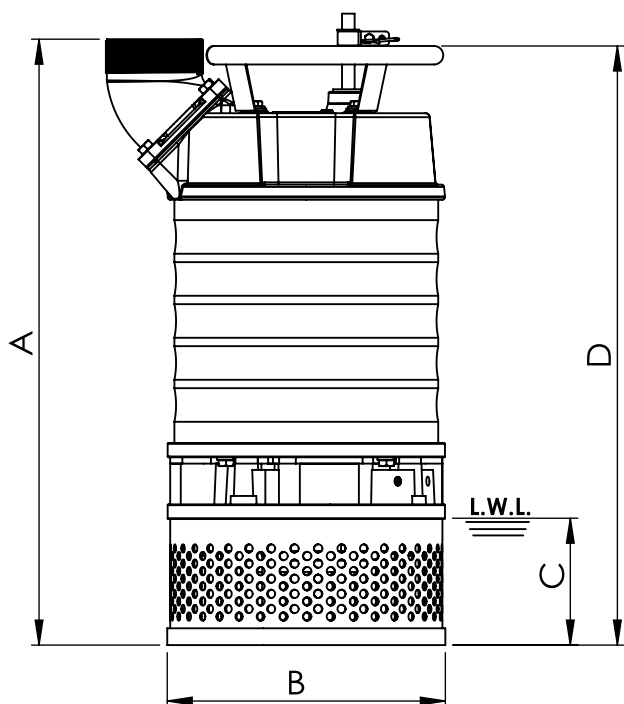
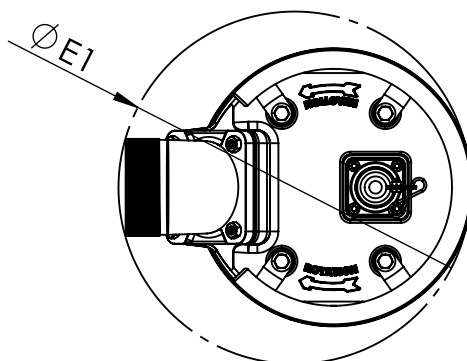
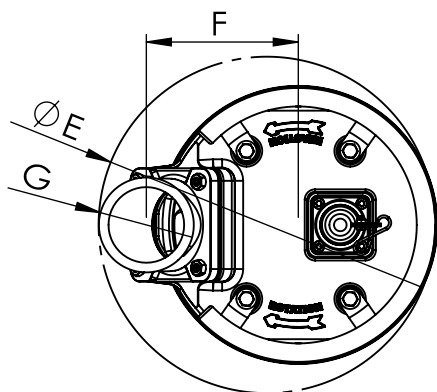
PUMP PERFORMANCE REPORT

MODEL	DW1100T0008				HEAD	RATED	
FREQUENCY	50 HZ				35	m	
DISCHARGE	4 Inch / 100 mm				CAPACITY	1000	lpm
OUTPUT	15 HP / 11 kW				POLE / RPM	2P /	2850 lpm
PHASE/VOLTAGE	3ø	380V	400V	415V	START METHOD	DIRECT ON LINE	
F.L.A.	A	23	22	22	INSULATION CLASS	H	CLASS

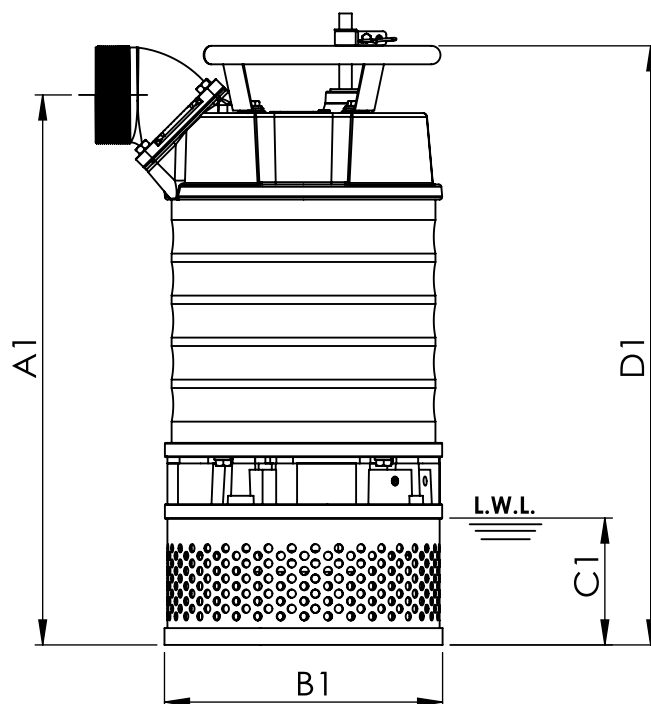


DIMENSIONAL DRAWING

MODEL: DW1100T0008



VERTICAL DISCHARGE MODE



HORIZONTAL DISCHARGE MODE

DIMENSION : mm

WEIGHT : kg

PIPE CONNECTION TYPE

PT

NPT

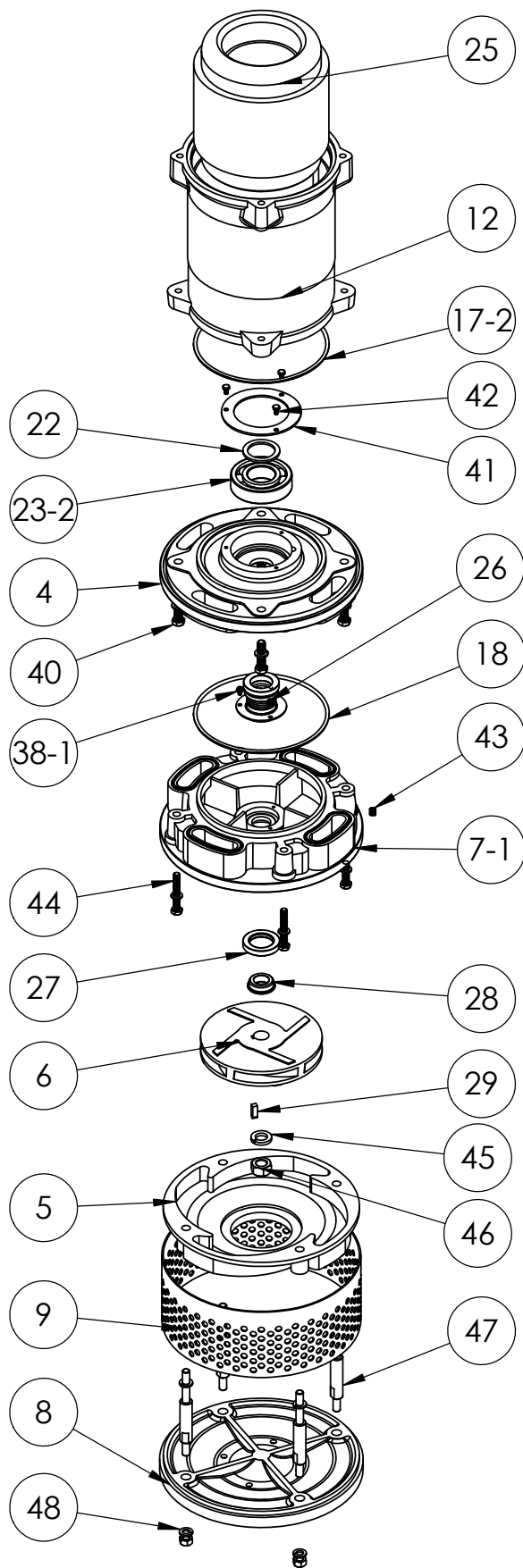
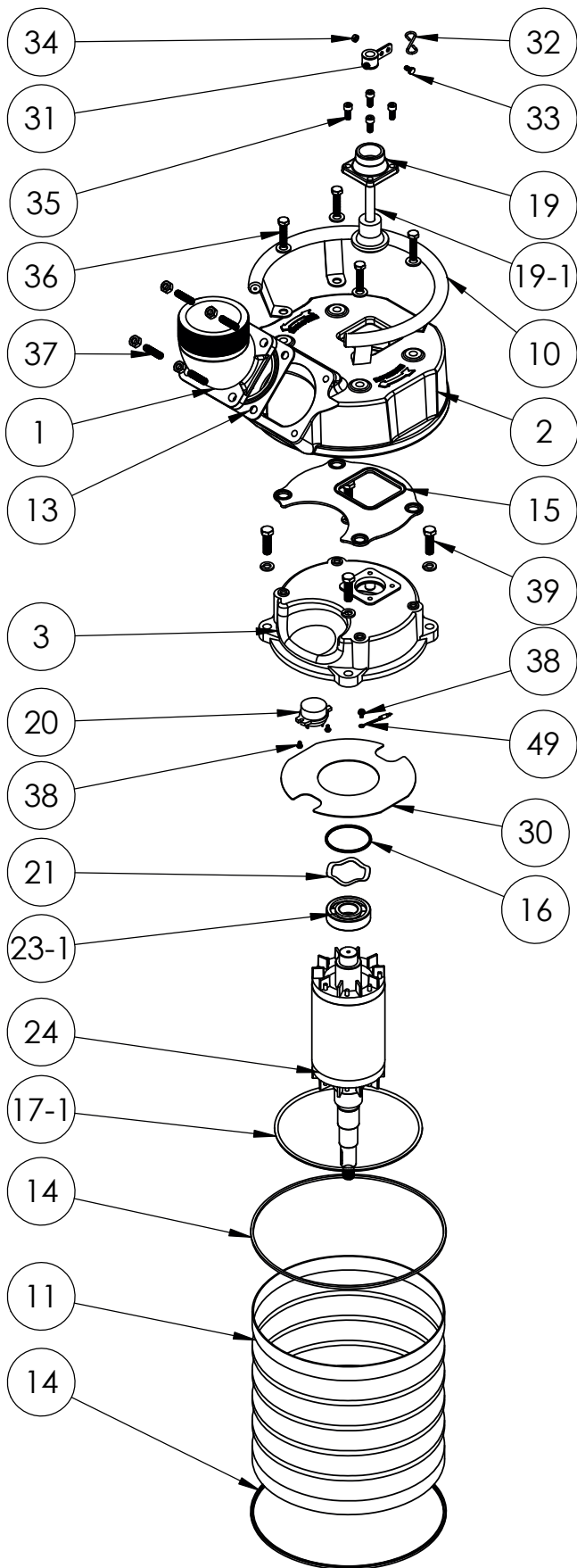
MODEL	VERTICAL DISCHARGE MODE							HORIZONTAL DISCHARGE MODE					WT
	A	B	C	D	E	F	G	A1	B1	C1	D1	E1	
DW1100T0008	721	286	151	712	403	181	4"	655	286	151	712	420	104

L.W.L.:Lowest Running Water Level

WT: Weight without cable

ASSEMBLY VIEW

MODEL: DW1100T0008



PARTS LIST

MODEL: DW1100T0008

No	Part	Material	No	Part	Material
1	Discharge	AlSi7Mg	25	Stator	-
2	Upper Cover	AlSi7Mg	26	Mechanical Seal	Upper: CA/CE Lower: SIC/SIC
3	Motor Cover	AlSi7Mg	27	Lip Seal	NBR
4	Lower Bearing Bracket	EN-GJL-200	28	Shaft Sleeve	AISI 304
5	Pump Casing	EN-GJS-700	29	Key	AISI 304
6	Impeller	High Chrome Steel	30	Insulation Sheet	Bakelite
7-1	Seal Housing	AlSi7Mg/NBR	31	Cable Clamp	AISI 304/NBR
8	Base Plate	AlSi7Mg	32	Cable Clamp Hanger	AISI 304
9	Strainer	AISI 304	33	Hex. Bolt	AISI 304
10	Handle	AISI 304	34	Hex. Nut	AISI 304
11	Outer Casing	AISI 304	35	Socket Screw	AISI 304
12	Motor Frame	AlSi7Mg	36	Hex. bolt & Flat Washer	AISI 304
13	Discharge Gasket	NBR	37	Headless Socket Screw & Hex. Nut	AISI 304
14	Outer Casing Gasket	NBR	38	Phillips Screw	SC
15	Upper Cover Gasket	NBR	38-1	Phillips Screw	SC
16	O-Ring	NBR	39	Hex. Bolt & Spring Washer	AISI 304
17-1	O-Ring	NBR	40	Hex. Bolt & Spring Washer	AISI 304
17-2	O-Ring	NBR	41	Bearing Holder	SC
18	O-Ring	NBR	42	Hex. Bolt	SC
19	Gland Holder	AlSi7Mg	43	Oil Plug	AISI 304
19-1	Cable	H07RN-F/STOW	44	Hex. Bolt & Spring Washer	AISI 304
20	Protector	YAMADA	45	Spring Washer	AISI 304
21	Wave Washer	SC	46	Cap Hex. Nut	AISI 304
22	Flat Washer	SC	47	Double End Stud Bolt & Spring Washer	AISI 304
23-1	Upper Bearing	NTN/TPI	48	Spring Washer & Hex. Nut	AISI 304
23-2	Lower Bearing	NTN/TPI	49	Ground Lead	-
24	Shaft and Rotor	AISI 420			

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