

HYDROFORCE 100T1

SUBMERSIBLE DEWATERING PUMP

DWO75OTO0007



HYDROFORCE 100T1

Designed for heavy-duty applications, this submersible pump features a closed impeller made of high-chrome steel, ideal for ensuring high performance even with highly abrasive liquids. The stainless steel outer casing and strainer provide strength and long-term durability, even in harsh environments.

The EKK Eagle Burgmann double mechanical seal system offers reliable protection against leakage and wear, while the heat-treated AISI 410/420 stainless steel shaft ensures high mechanical strength and long service life. The efficient circumferential cooling system allows for continuous operation, maintaining optimal temperatures even under extended load.



10HP (7.5kW)
POWER



39 meters
MAX HEAD



1900 lpm
MAX FLOW

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



Applications

- Site drainage
- Mining and Tunneling
- Public Works
- Floods
- Cement Industry
- River Intake
- Civil Engineering Projects



Specifications

ITEM		DESCRIPTION
LIMIT OF USE	Liquid Temp.	0-40°C (32-104°F)
	Application	As suggested
TYPE	Frequency	50 Hz
	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 Casins	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

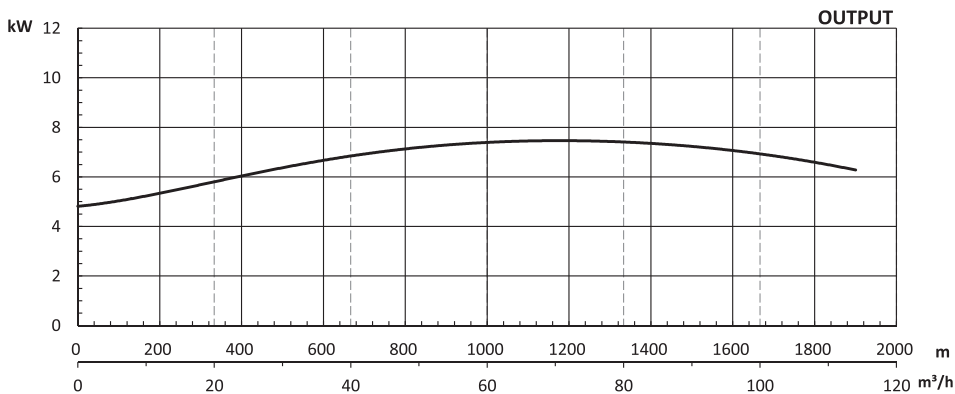
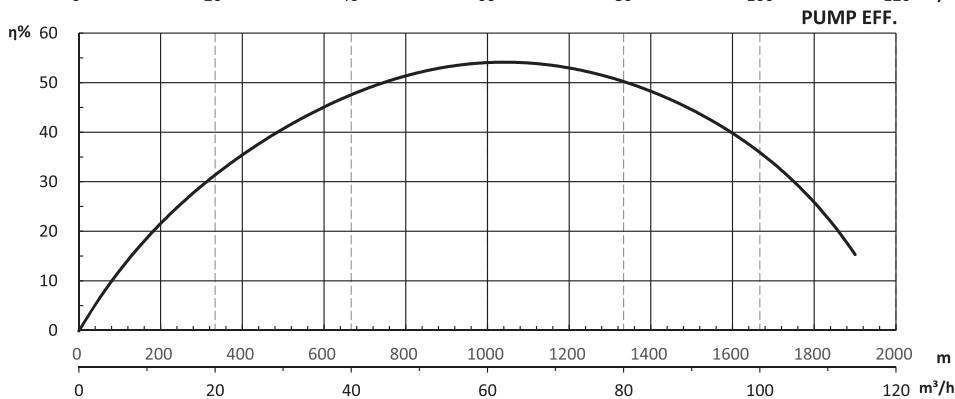
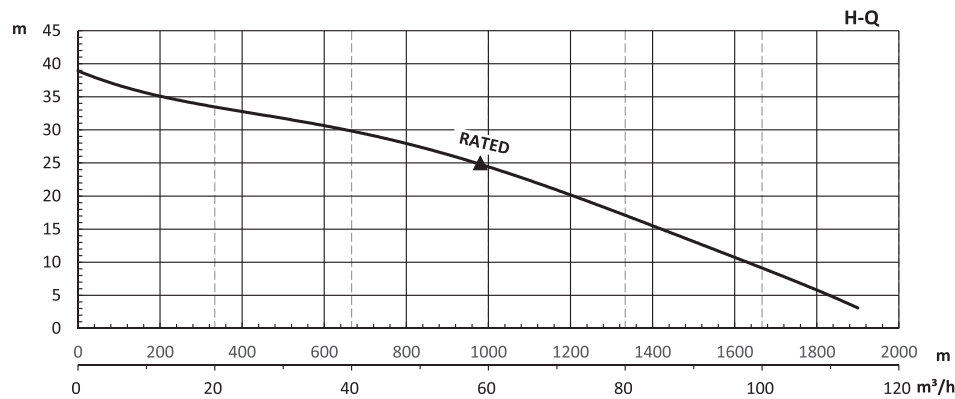
MODEL	OUTPUT		DISCHARGE	PHASE	3Ø			RATED		MAXIMUM		FREE PASSAGE	WEIGHT W/O CABLE
	HP	KW	Inch	FULL LOAD AMPERAGE	380V	400V	415V	m	lpm	m	lpm	mm	3Ø-kg
HYDROFORCE 100T1	10	7.5	4"		17A	16A	15.8A	25	980	39	1900	10	69

HYDROFORCE 100T1

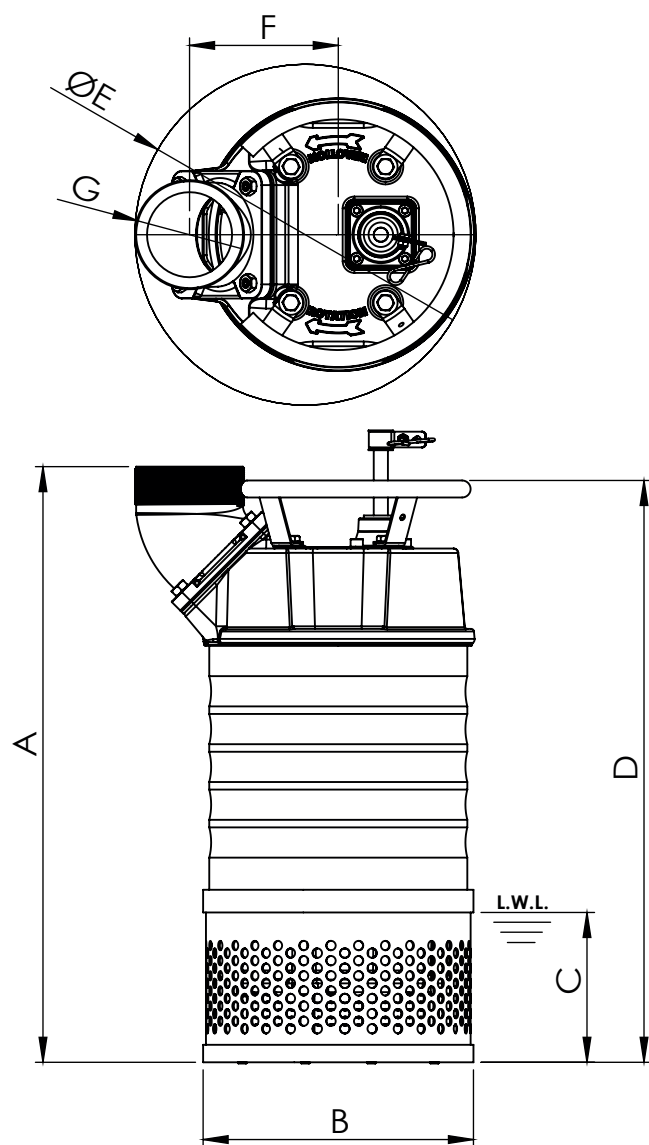
Pump Performance Report

MODEL	HYDROFORCE 100T1				RATED	
FREQUENCY	50 HZ				HEAD	25 m
DISCHARGE	4 Inch / 150 mm				CAPACITY	980 lpm
OUTPUT	10 HP / 7.5 kW				POLE / RPM	2P / 2850 RPM
PHASE / VOL-TAGE	3ø	380V	400V	415V	START METHOD	DIRECT ON LINE
F.L.A.	A	17	16	15.8	INSULATION CLASS	F CLASS

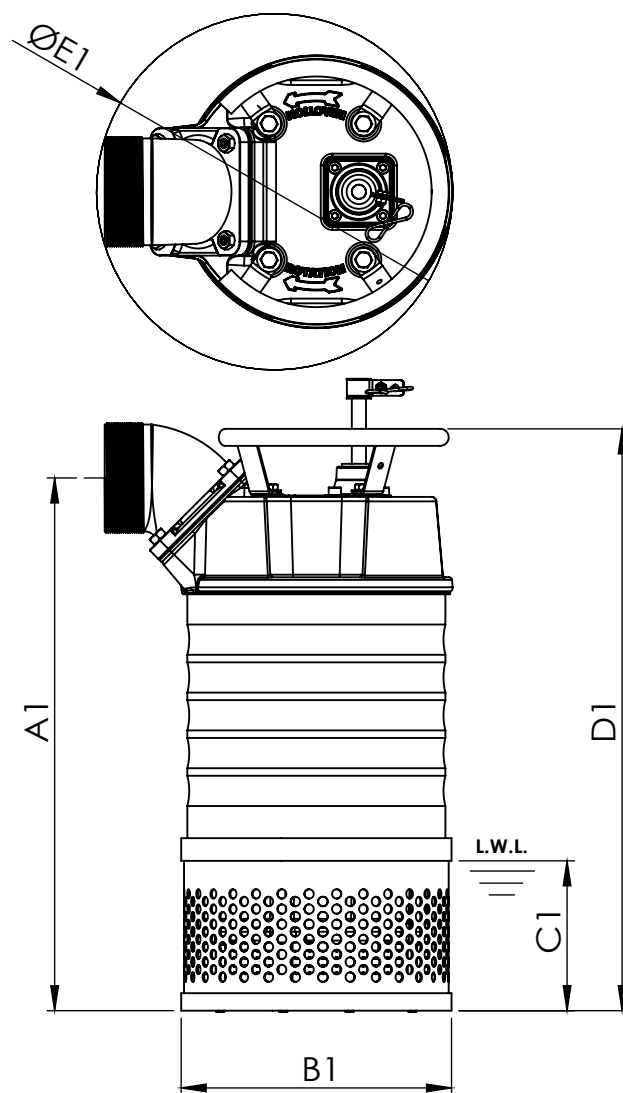
OUTPUT		DISCHARGE	Q(lpm)	O	500	1000	1500	2250	Q(m³/h)	O	20	60	100	135
HP	kW	Inch												
10	7.5	4"	H(m)	39	49.4	42.3	35.5	-	H(m)	39.0	33.5	24.5	9	-



Dimensional Drawing



VERTICAL DISCHARGE MODE

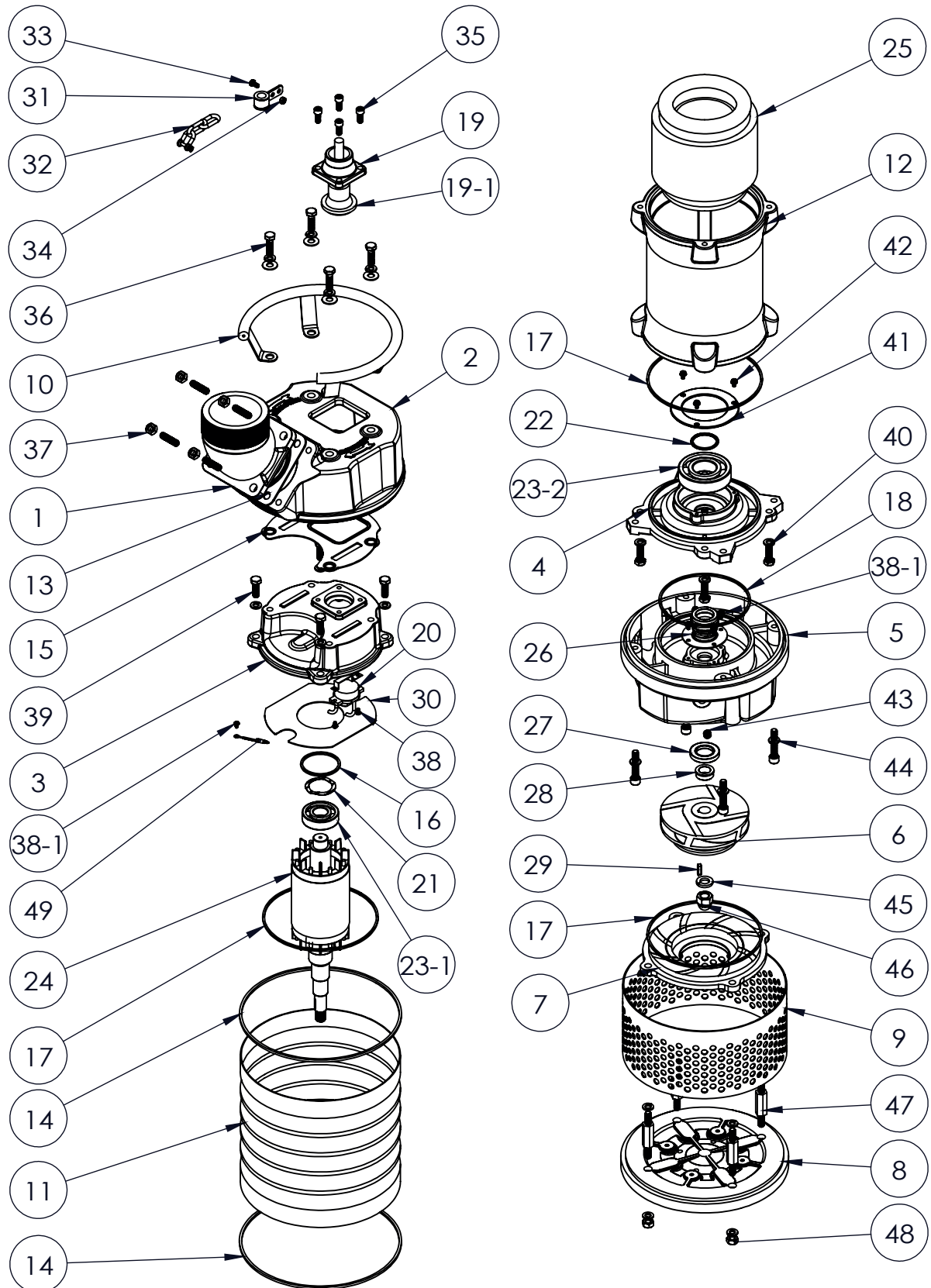


HORIZONTAL DISCHARGE MODE

MODEL	VERTICAL DISCHARGE MODE							HORIZONTAL DISCHARGE MODE					WT
	A	B	C	D	E	F	G	A1	B1	C1	D1	E1	
HF 100T1	630	286	159	616	360	158	4"	564	286	159	616	377	69

HYDROFORCE 100T1

Assembly View



Parts List

No	Part	Material	No	Part	Material
1	Discharge 4"	AlSi7Mg	26	Mechanical Seal	Top: CA / CE Bot: SIC / SIC
2	Upper Cover	AlSi7Mg	27	Lip Seal	NBR
3	Motor Cover	AlSi7Mg	28	Shaft Sleeve	AISI304
4	Lower Bearing Bracket	EN-GJL-200	29	Key	AISI304
5	Pump Casing	EN-GJL-200	30	Insulation Sheet	Bakelite
6	Impeller 6"	High Chrome Steel	31	Cable Clamp	AISI304 / NBR
7	Suction Plate	EN-GJL-200	32	Shackle / Chain	AISI304 / SC
8	Base Plate	AlSi7Mg	33	Hex Bolt	AISI304
9	Strainer	AISI304	34	Hex Nut	AISI304
10	Handle	AISI304	35	Socket Screw	AISI304
11	Outer Casing	AISI304	36	Hex Bolt / Spring Washer / Flat Washer	AISI304
12	Motor Frame	AlSi7Mg	37	Headless Socket Screw / Hex Nut	AISI304
13	Discharge Gasket	NBR	38	Phillips Screw	SC
14	Outer Casing Gasket	NBR	38-1	Phillips Screw	SC
15	Upper Cover Gasket	NBR	39	Hex Bolt / Spring Washer	AISI304
16	O-Ring	NBR	40	Hex Bolt / Spring Washer	AISI304
17	O-Ring	NBR	41	Bearing Holder	SC
18	O-Ring	NBR	42	Hex Bolt	SC
19	Gland Holder	AlSi7Mg	43	Oil Plug (headless socket screw)	AISI304
19-1	Cable	STOW / H07RN-F	44	Socket Screw / Spring Washer	AISI304
20	Protector	YAMADA	45	Spring Washer	AISI304
21	Wave Washer	SC	46	Cap Hex Nut	AISI304
22	Flat Washer	SC	47	Double End Stud Bolt / Spring Washer	AISI304
23-1	Upper Bearing	NTN/TPI	48	Spring Washer / Hex Nut	AISI304
23-2	Lower Bearing	NTN/TPI	49	Ground Lead	-
24	Shaft and Rotor	AISI410	50	R-32 Lubricant - 800cc	-
25	Stator	-			

