

Technical Data

Pump Name

DW 300

Customer	Date 2022-10-31	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	SUBMERSIBLE SEWAGE PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h		Kin. viscosity mm²/s	1.005
4	Head m		Vapour pressure kPa	2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	DW 300	Frequency Hz	50
10	Design	SUBMERSIBLE SEWAGE PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 125
12	Speed 1/min	2800		Designed mm 125
13	No. of Stage	1		Min. mm 125
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 54
16	Max. Working Pressure kPa			Min- m³/h 6
17	Shut-off head kPa	210.86	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 5.0
19	Shaft power kW			- (Qmin.) m 19.9
20			Max. Shaft Power at max. impeller kW	
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 303 (Wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	DW 300_400_Three Phase	Phases	3~
30	Specific design	Submersible dry type / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	2.2	Weight kg	
32	Number of poles	2	Electric voltage V	400
33	Speed 1/min	2800	Electric current A	5
34	Degree of protection	IP X8		
35				

Remarks

Performance Curve

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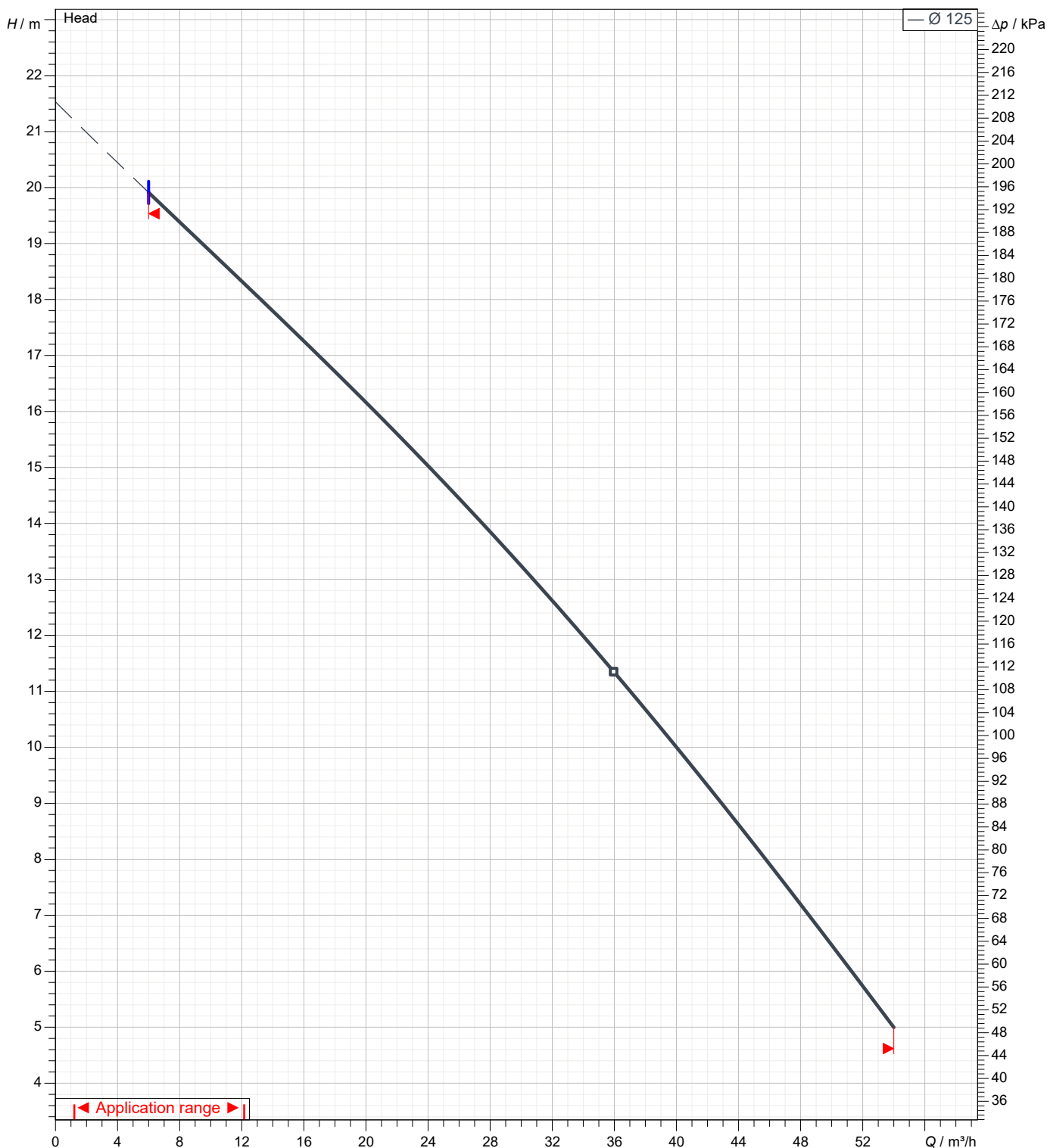
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller diameter designed	mm	125	Speed	1/min	2800

Test standard: ISO 9906:2012 - Grade3B

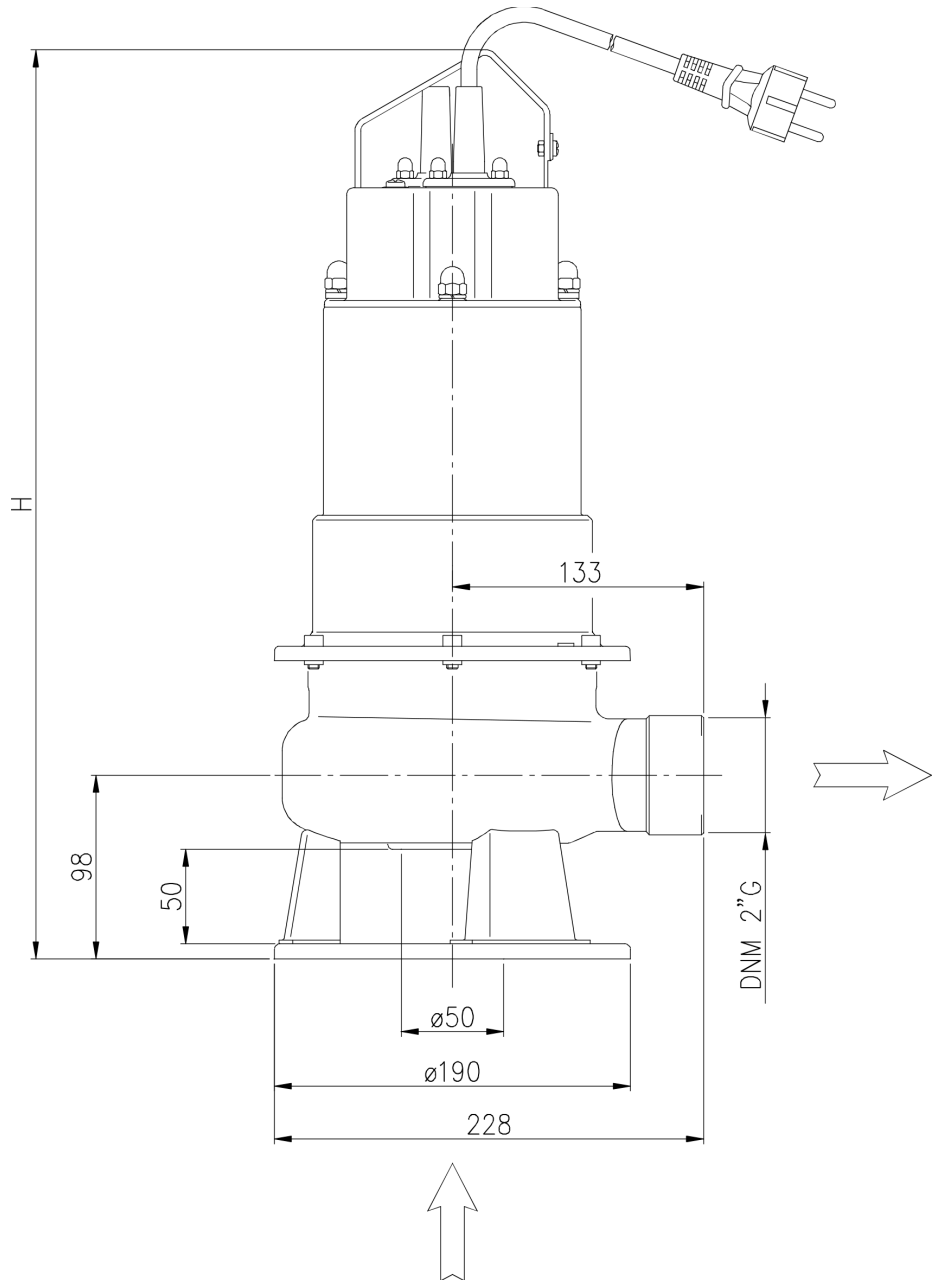
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	H	546						
2	Weight PUMP	25,8 kg						
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

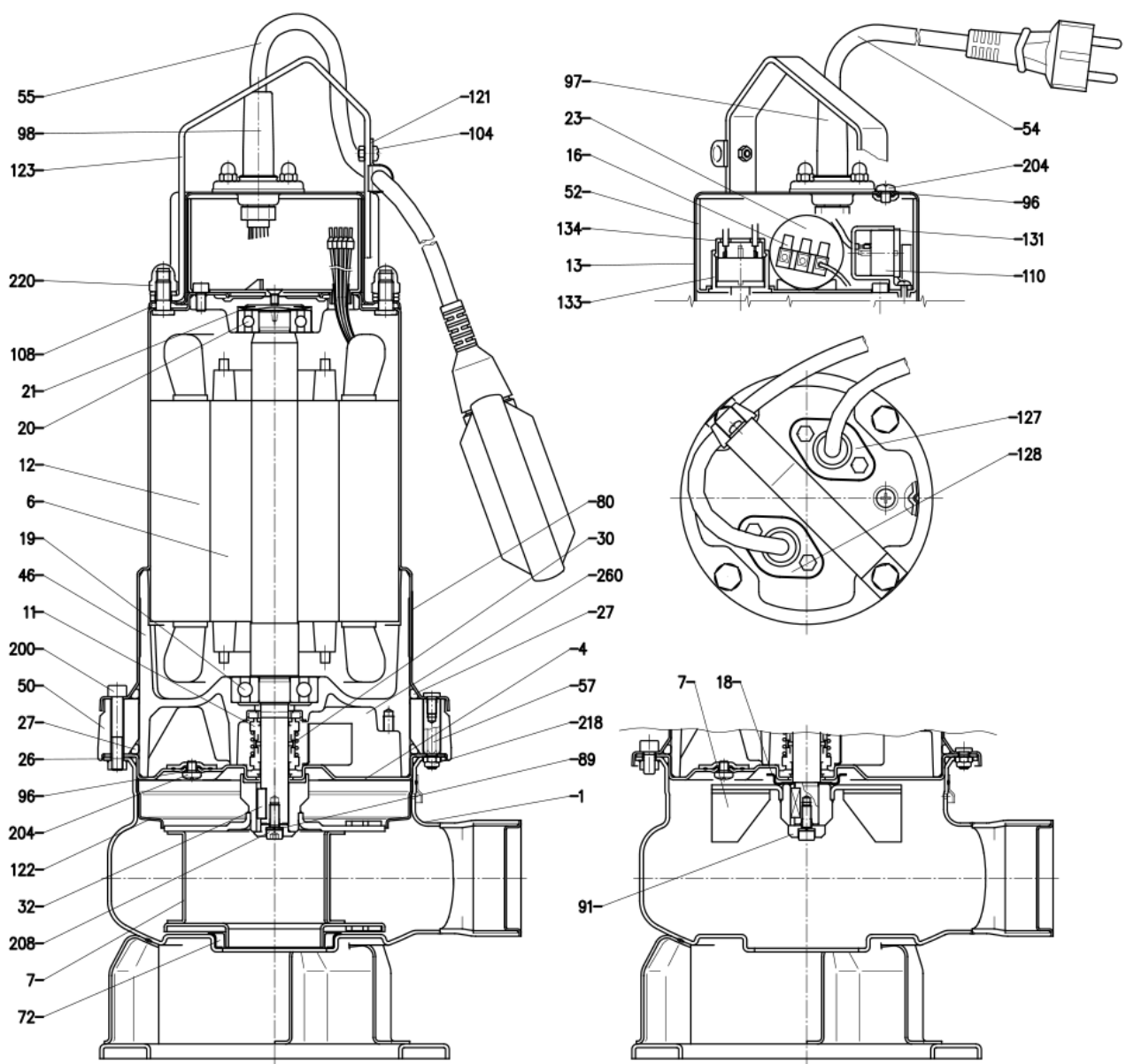
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Construction

Pump Name

DW 300

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Construction

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N°	PART NAME	MATERIAL	Q.TY
1	Casing	ISI 304	1
4	Casing cover	ISI 304	1
6	Shaft with rotor	ISI 303	1
7	Impeller	ISI 304	1
11	Mechanical seal [8]	SiC/SiC/NBR	1
11	Mechanical seal [8]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	ISI 304	1
16	Terminal	-	1
18	Mechanical seal protection [1]	ISI 304	1
19	Lower side ball bearing	-	1
20	Upper side ball bearing	-	1
21	Adjusting ring	Steel C70	1
23	Capacitor [2]	-	1
26	O ring	NBR	1
27	O ring	NBR	1
27	O ring [3]	NBR	1
30	Mechanical seal spacer	Brass	1
32	Key	ISI 304	1
46	Bearing housing	G20	1
50	Spacer [3]	G20	1
52	Terminal insulating box	PA66 glass fibre reinforced class V-0	1
54	Power cable	-	1
55	Float switch [4]	-	1
57	Spacer [3]	ISI 304	4
72	Casing ring [5]	NBR	1
89	Washer	ISI 304	1
91	Washer [1]	ISI 304	1
96	O ring	NBR	3
97	Power cable entry	NBR	1
98	Floating switch cable entry [4]	NBR	1
104	Cable guard [4]	NBR	1
108	Cover gasket	NBR	1
110	Protector [2]	-	2
121	Support for float switch [4]	ISI 304	1
122	Impeller protection ring [6]	ISI 304	1
123	Handle	ISI 304	1
127	Power cable connector	ISI 304	1
128	Floating switch cable connector	ISI 304	1
131	Support for protector	PA66 glass fibre reinforced	1
133	Support for probe	Aluminium	1
134	Cover for support probe	PA6	1
200	Screw	Stainless steel A2 UNI 7323	6
204	Screw	Stainless steel A2 UNI 7323	3
208	Screw	Stainless steel A2 UNI 7323	1
218	Nut	Stainless steel A2 UNI 7323	4
220	Nut	Stainless steel A2 UNI 7323	4
260	Lubricating liquid	White mineral oil	348 cc

- [1] Except for DW-DW VOX 300
- [2] Only for single phase
- [3] Only for DW-DW VOX 300
- [4] Only for single phase with float switch
- [5] Only for DW
- [6] Except for DW VOX 150, 200 and 300
- [7] Only for single phase DW 150
- [8] See CONSTRUCTION 3

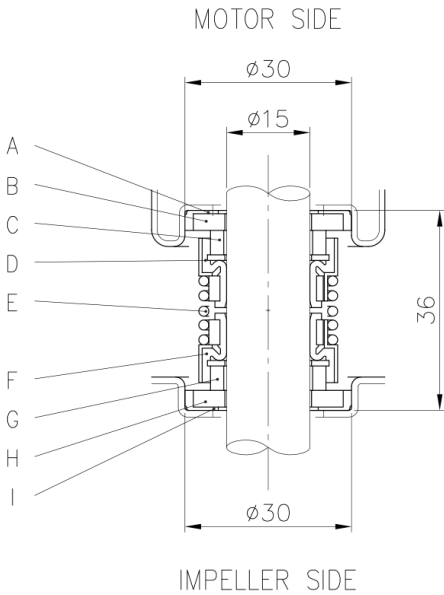
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REF	PART NAME	MATERIAL
A	Rubber cup	NBR
B	Seat	Ceramic
C	Seal face	Carbon
D	Bellow	NBR
E	Spring	AISI 304
F	Bellow	NBR
G	Seal face	Silicon carbide
H	Seat	Silicon carbide
I	Rubber cup	NBR