

Technical Data

Pump Name

50 DS 52.2

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 18:03:05	E-mail

Requested data

1	Pump type	SUBMERSIBLE SUMP PUMP	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 bar	0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	50 DS 52.2	Frequency Hz	50
10	Design	SUBMERSIBLE SUMP PUMP	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 146
12	Speed rpm	2900		Designed mm 146
13	No. of Stage	1		Min. mm 146
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side	JIS 10K		Max- m³/h 33
16	Max Working Pressure bar			Min- m³/h 6
17	Shut-off head bar	2.65	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 9.4
19	Shaft power kW			- (Qmin.) m 26.0
20			Max. Shaft Power at max. impeller kW	2.18
21	Required pump NPSH m		Efficiency %	

Materials

22	Casing	FC200	Mechanical seal (Upper)	Carbon/Ceramic
23	Impeller	FCD400	Mechanical seal (Lower)	SiC/SiC
24	Suction Cover	FC200	Lubricating Oil	Turbine Oil VG32
25	Strainer	SPCC		
26	Shaft	SUS403		
27	Motor frame	FC150		

Motor

28	Manufacturer	--	Insulation class	F
29	Type	DS 52.2_380_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	380
33	Speed rpm	2851	Electric current A	5.1
34	Degree of protection	IP 68		
35				

Remarks

Performance Curve

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Requested data

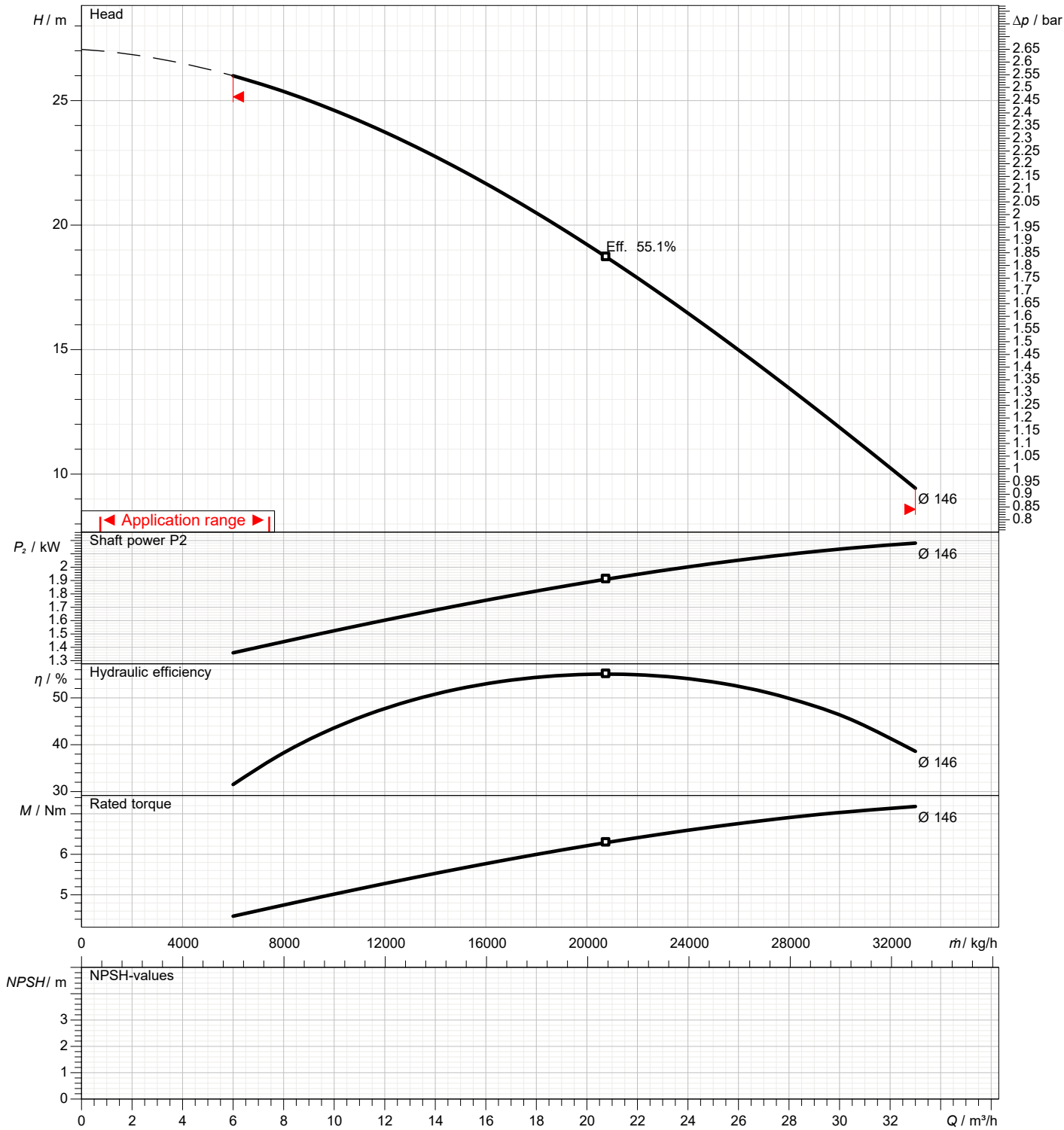
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	146	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

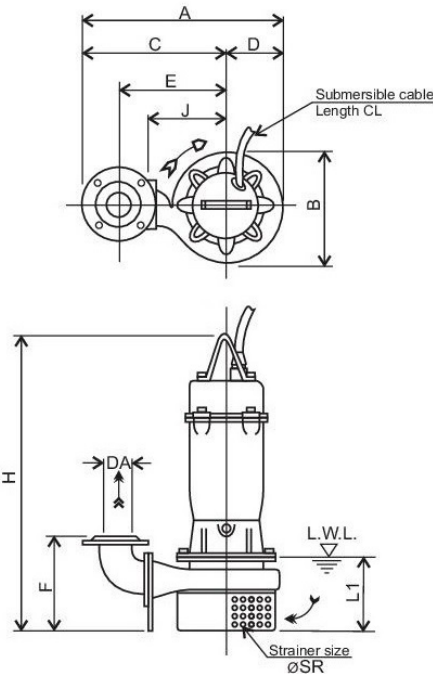
Water; 20°C; 998.3kg/m³; 1mm²/s



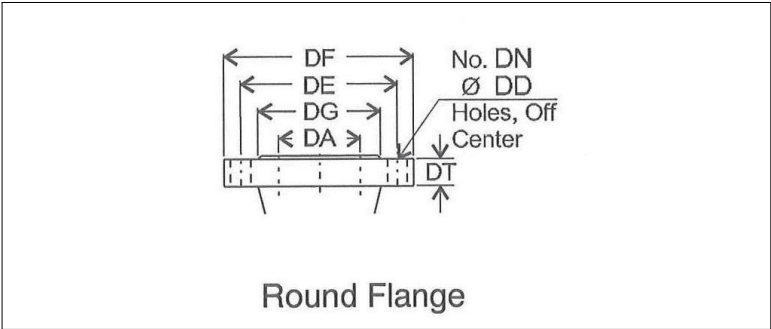
Dimensions

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Note:
1/. IT IS LIMITED TO OPERATE AT LOW WATER LEVEL
WITHIN 10 MINUTES.
2/. IT IS LIMITED TO OPERATE BELOW WATER LEVEL AT
MOTOR TOP WITHIN 30 MINUTES.



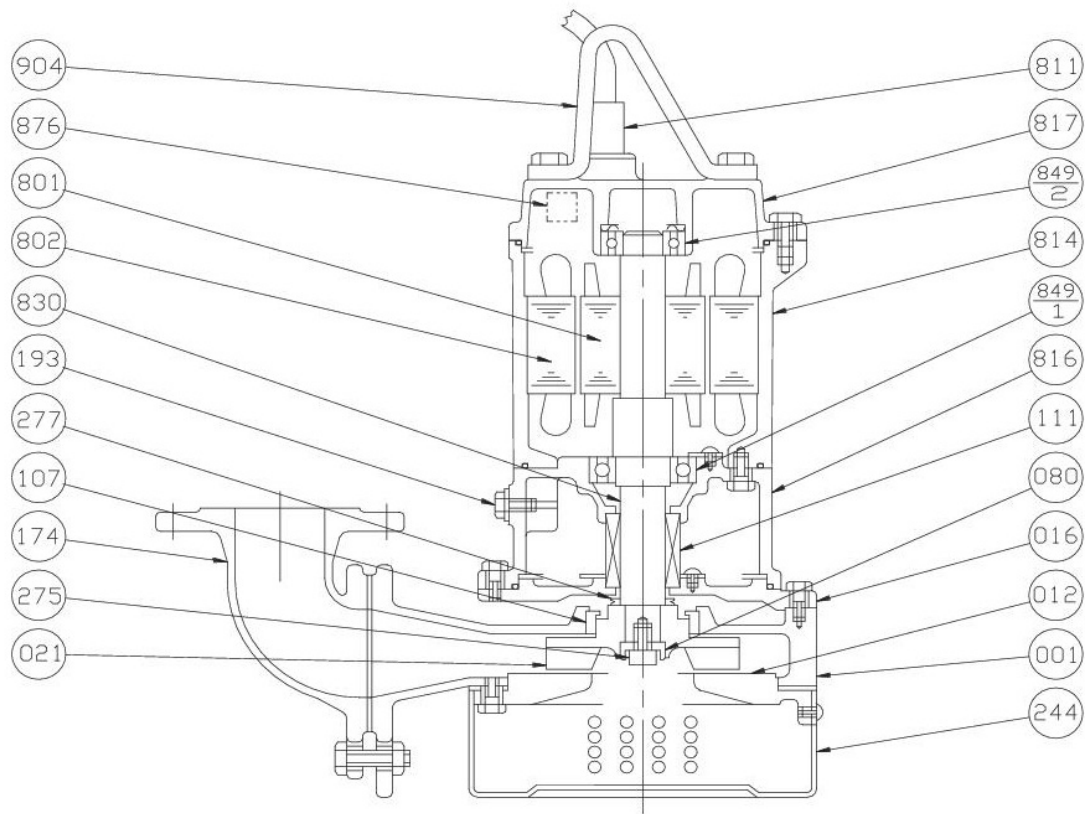
Pump dimensions				mm		Suction side		mm		Discharge side		mm	
A	433									DA		50	
B	245									DD		15	
C	313									DE		120	
CL	10m									DF		155	
D	120									DG		96	
E	235									DN		4	
F	198									DT		18	
H	619												
J	180												
L1	160												
SR	10												
Weight kg	55												

Construction

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Item Number	Description	Material		Quantity per unit
001	Pump Casing	FC200	Cast iron	1
012	Suction Cover	FC200	Cast Iron	1
016	Mechanical Seal Cover	FC200	Cast iron	1
021	Impeller	FCD400	Graphite Cast Iron	1
080	Bushing	SS	Steel	1
107	Casing Ring	SUS	Stainless Steel	1
111	Mechanical Seal			1
174	Discharge Bend	FC200	Cast iron	1
193	Oil Plug	SUS304	Stainless Steel	1
244	Strainer	SPCC	Steel	1
275	Impeller Bolt	SUS304	Stainless Steel	1
277	V Ring	NBR	Rubber	1

Item Number	Description	Material		Quantity per unit
801	Rotor			1
802	Stator			1
811	Submersible Cable			1
814	Motor Frame	FC150	Cast Iron	1
816	Power Side Bracket	FC150	Cast Iron	1
817	Opposite Side Bracket	FC150	Cast Iron	1
830	Shaft	SUS403	Stainless Steel	1
849-1	Ball Bearing			1
849-2	Ball Bearing			1
876	Protector			1
904	Lifting Handle	SS	Steel	1