

Technical data

Pump name 6BHE 13-51

Customer	Date 2024-06-13	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-06-13 07:43:07	E-mail

Requested data

1	Pump type	SUBMERSIBLE DEEPWELL 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 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	6BHE 13-51	Frequency Hz	50
10	Design	SUBMERSIBLE DEEPWELL PUMPS	Installation type	without motor 6"
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 0
12	Speed rpm	2850		Designed mm
13	No. of Stage	51		Min. mm 0
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side	Rp 2" 1/2		Max- m³/h 18
16	Max Working Pressure bar	70		Min- m³/h 6
17	Shut-off head bar	57.15	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 201.8
19	Shaft power kW			- (Qmin.) m 512.8
20	Max. fluid temperature °C	40	Max. Shaft Power at max. impeller kW	20.35
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	EN 1.4301 (AISI 304)		
23	Discharge casing	EN 1.4301 (AISI 304)		
24	Shaft	EN 1.4057 (AISI 431)		
25	Diffuser	EN 1.4301 (AISI 304)		
26				
27				

Motor

28	Manufacturer	without motor	Insulation class	F
29	Type	6" without motor 3	Phases	
30	Specific design	without motor / 50 Hz / Pole pairs 1	Frame size	6"
31	Rated power kW		Weight kg	
32	Number of poles	2	Electric voltage V	
33	Speed rpm		Electric current A	
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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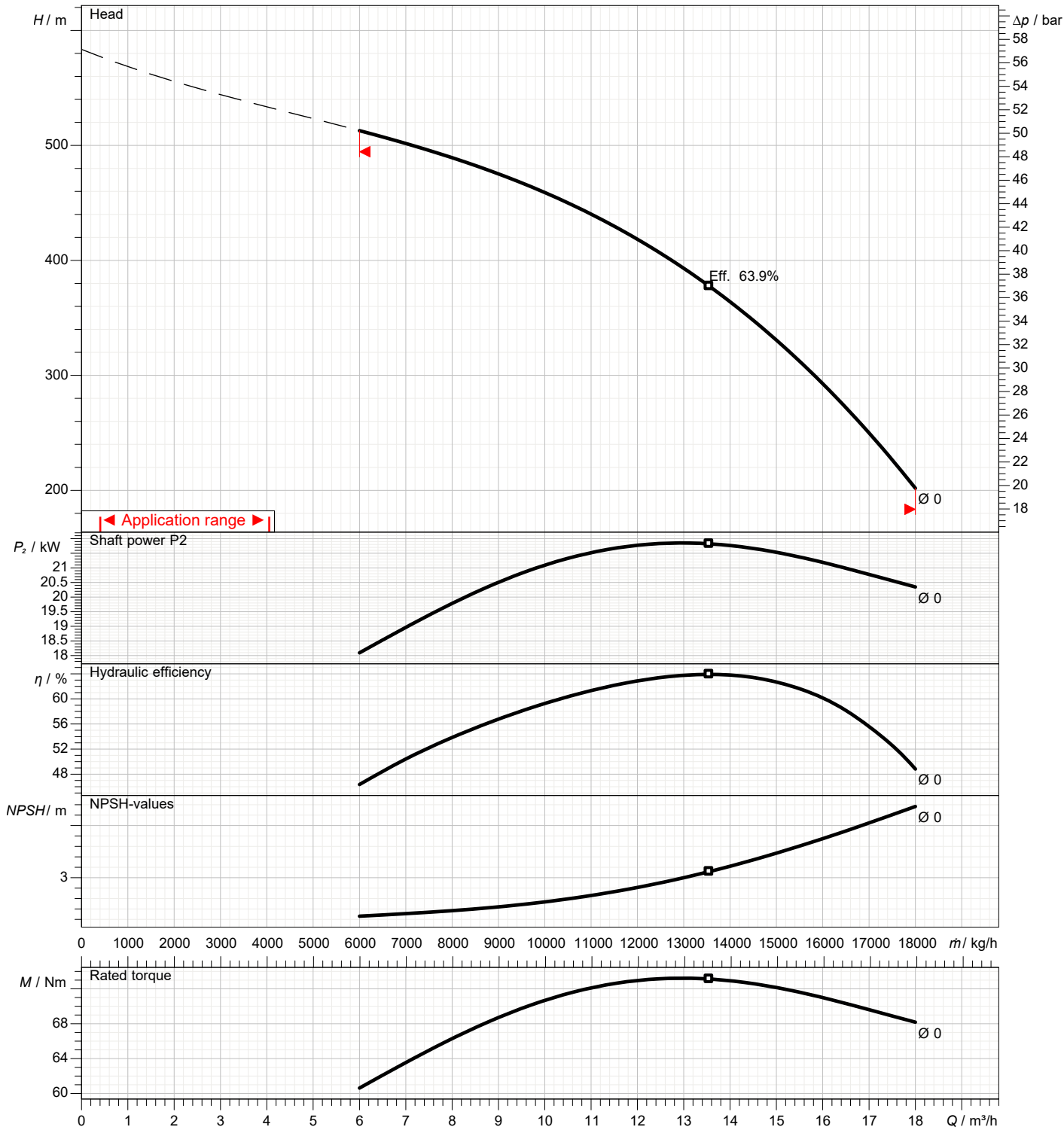
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm		Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

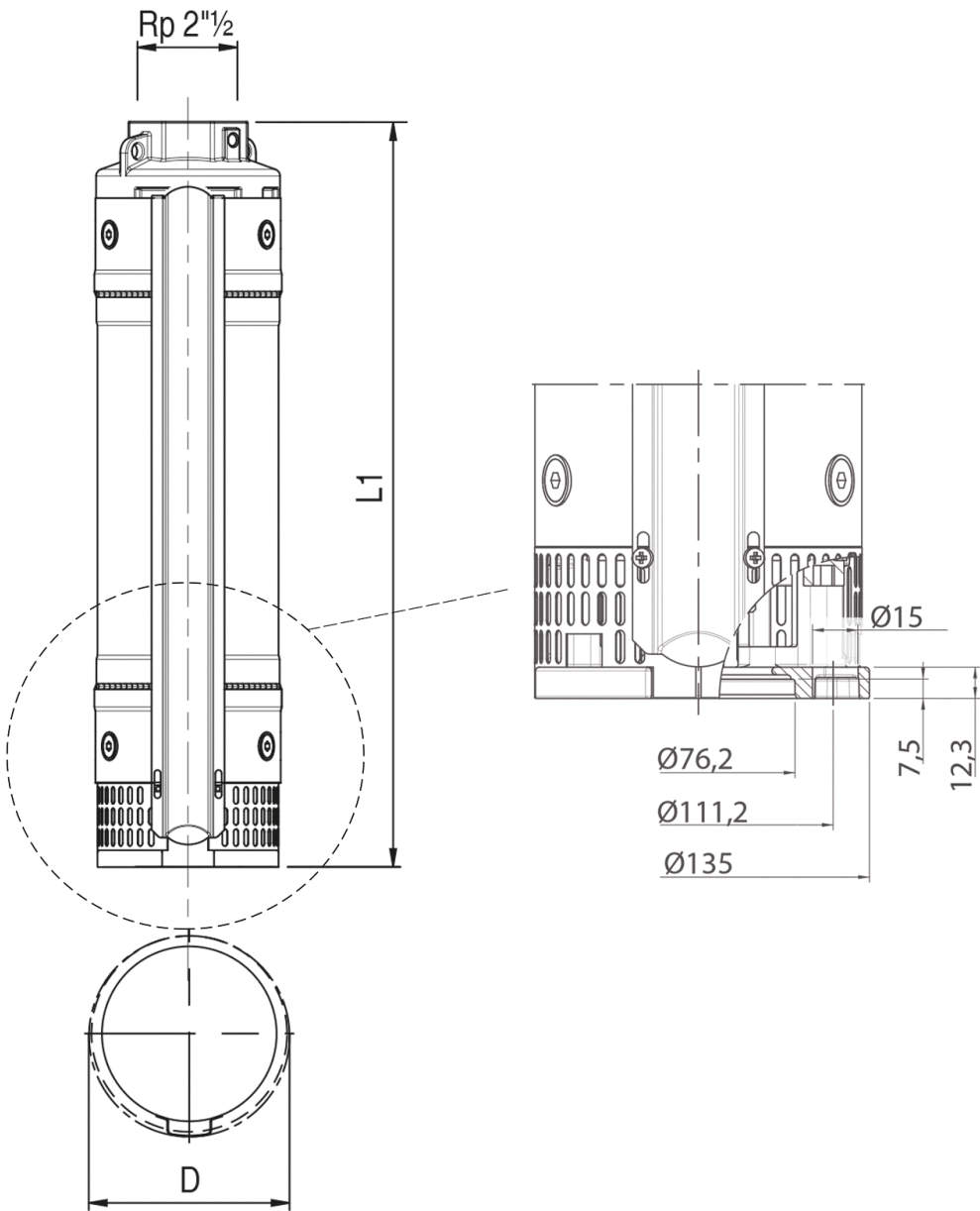
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	L1	1790					
2	Weight PUMP	116,5 kg					
3							
4							
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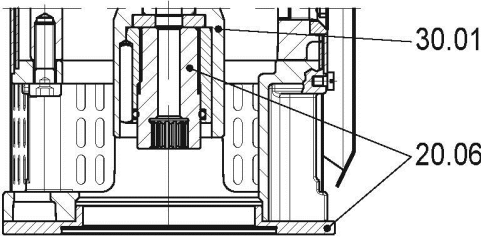
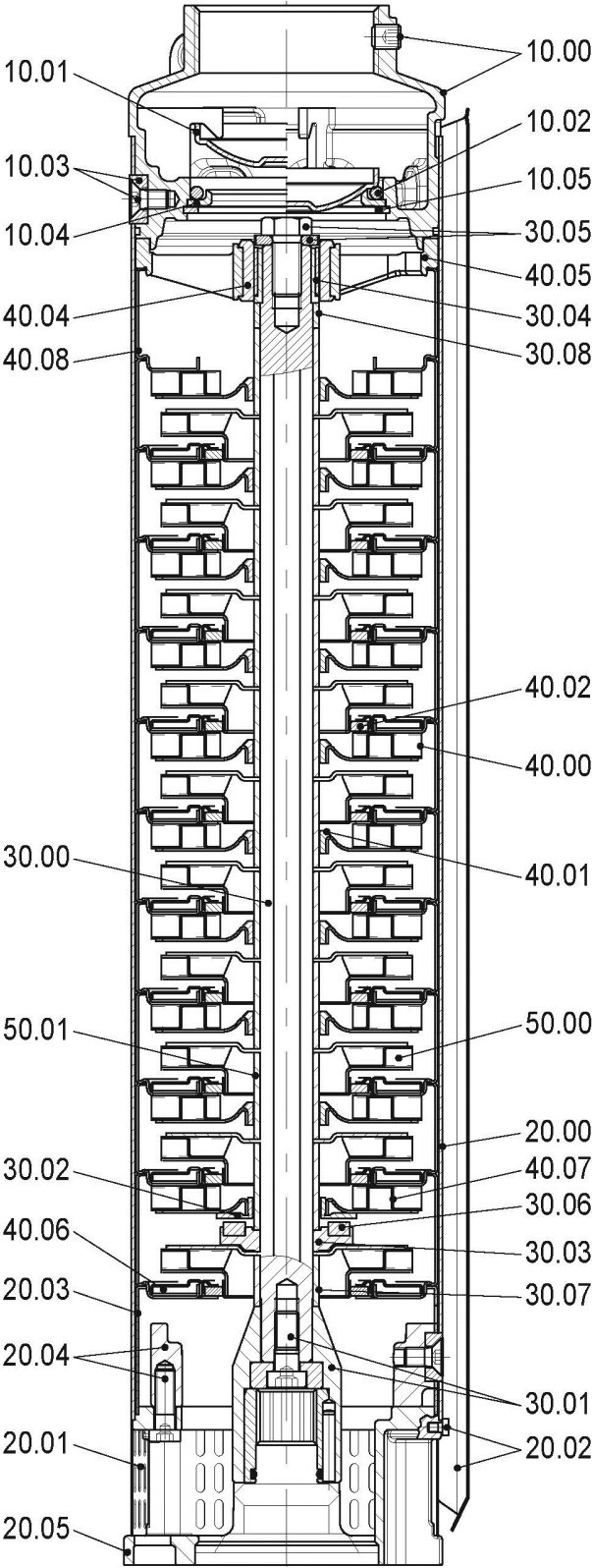
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Construction

Pump name

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Construction

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N°	NAME	MATERIAL Standard version
10.00	Discharge head and screw	EN 1.4301 (AISI 304)
10.01	Valve	EN 1.4401 (AISI 316)
10.02	O-ring	NBR
10.03	Screws and outer case locking nuts	EN 1.4401 (AISI 316)
10.04	Valve support	EN 1.4401 (AISI 316)
10.05	Seeger ring	EN 1.4401 (AISI 316)
20.00	Outer case	EN 1.4301 (AISI 304)
20.01	Suction strainer	EN 1.4401 (AISI 316)
20.02	Cable guard and screws	EN 1.4401 (AISI 316)
20.03	Initial spacer	EN 1.4301 (AISI 304)
20.04	Flange and bolts	EN 1.4301 (AISI 304)
20.05	Motor adapter	EN 1.4301 (AISI 304)
30.00	Pump shaft	EN 1.4057 (AISI 431)
30.01	Coupling	EN 1.4057 (AISI 431) + EN 1.4460 (AISI 329)
30.02	Upper up-thrust washer	EN 1.4401 (AISI 316)
30.03	Lower up-thrust washer	EN 1.4401 (AISI 316)
30.04	Upper journal sleeve	EN 1.4460 (AISI 329) with ceramic coating
30.05	Screw and washer	EN 1.4401 (AISI 316)
30.06	Up-thrust ring	PTFE + Graphite
30.07	Lower spacer	EN 1.4401 (AISI 316)
30.08	Upper spacer	EN 1.4401 (AISI 316)
40.00	Diffusers	EN 1.4301 (AISI 304)
40.01	Secondary bearing bush	NBR
40.02	Floating neck ring	PTFE
40.04	Bearing bush	NBR
40.05	Upper bearing guide	EN 1.4401 (AISI 316)
40.06	First diffuser	EN 1.4401 (AISI 316)
40.07	Diffuser with upper up-thrust washer	EN 1.4401 (AISI 316)
40.08	Last diffuser	EN 1.4401 (AISI 316)
50.00	Impeller	EN 1.4301 (AISI 304)
50.01	Impeller spacer	EN 1.4401 (AISI 316)
50.05	Wear ring	EN 1.4301 (AISI 304)