

Technical data

Pump name

W8BHE 77-16/93 6

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Project redenumit 2024-06-20 16:39:09	E-mail

Requested data

1	Pump type	SUBMERSIBLE DEEPWELL 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	W8BHE 77-16/93 6	Frequency		Hz	60
10	Design	SUBMERSIBLE DEEPWELL PUMP	Installation type		STANDARD	
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	0
12	Speed rpm	3460		Designed	mm	
13	No. of Stage	16		Min.	mm	0
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	126
16	Max Working Pressure bar	70		Min-	m³/h	45
17	Shut-off head bar	45.89	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	177.3
19	Shaft power kW	(Power / Stage)		- (Qmin.)	m	416.3
20			Max. Shaft Power at max. impeller		kW	5.83 (Power / Stage)
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	EN 1.4401 (AISI 316)		
23	Discharge casing	EN 1.4301 (AISI 304)		
24	Shaft	EN 1.4301 (AISI 329)		
25	Diffuser	EN 1.4301 (AISI 304)		
26				
27				

Motor

28	Manufacturer	FRANKLIN	Insulation class	F
29	Type	BHE_8 inch_60_93_460_Three Phase	Phases	3~
30	Specific design	Submersible water filled type / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	93	Weight kg	318
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3600	Electric current A	188
34	Degree of protection	IP 68		
35				

Remarks

Performance curve

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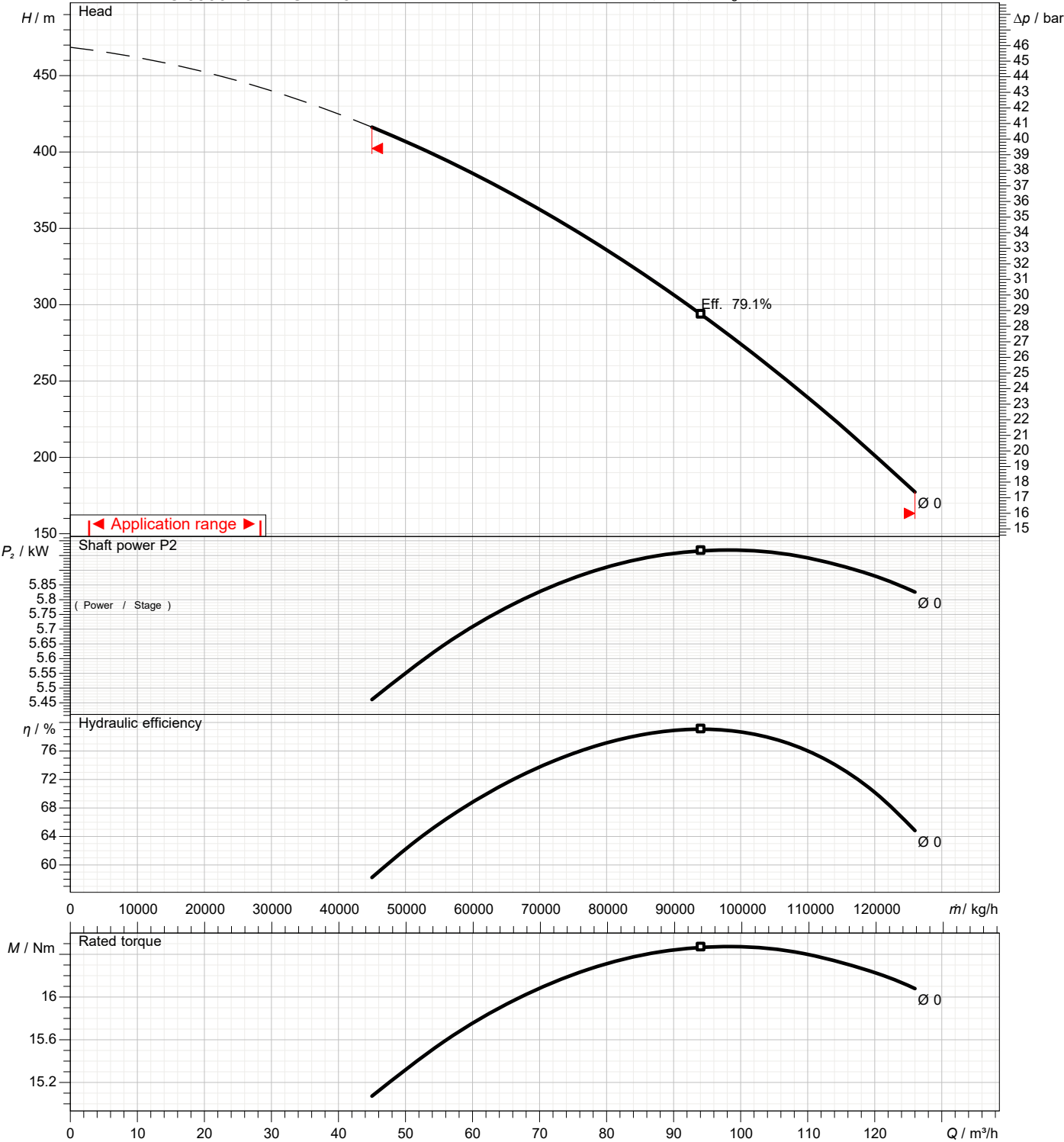
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Requested data

1	Flow	m³/h		Operating flow	m³/h		Frequency	Hz	60
2	Head	m		Operating head	m		Number of poles		2
3	Geodetic head	m		Impeller Diameter	Designed	mm	Speed	rpm	3460

Test standard: ISO 9906:2012 - Grade3B

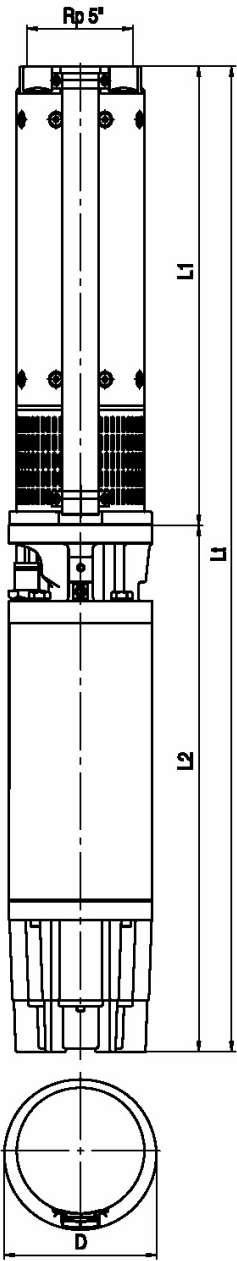
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	D - 1 CABLE	195						
2	D - 2 CABLE	197.5						
3	L1	2413						
4	L2	1747						
5	Lt	4160						
6	Weight kg	710.5						
7								
8								
9								
10								
11								
12								
13								
14								
15								

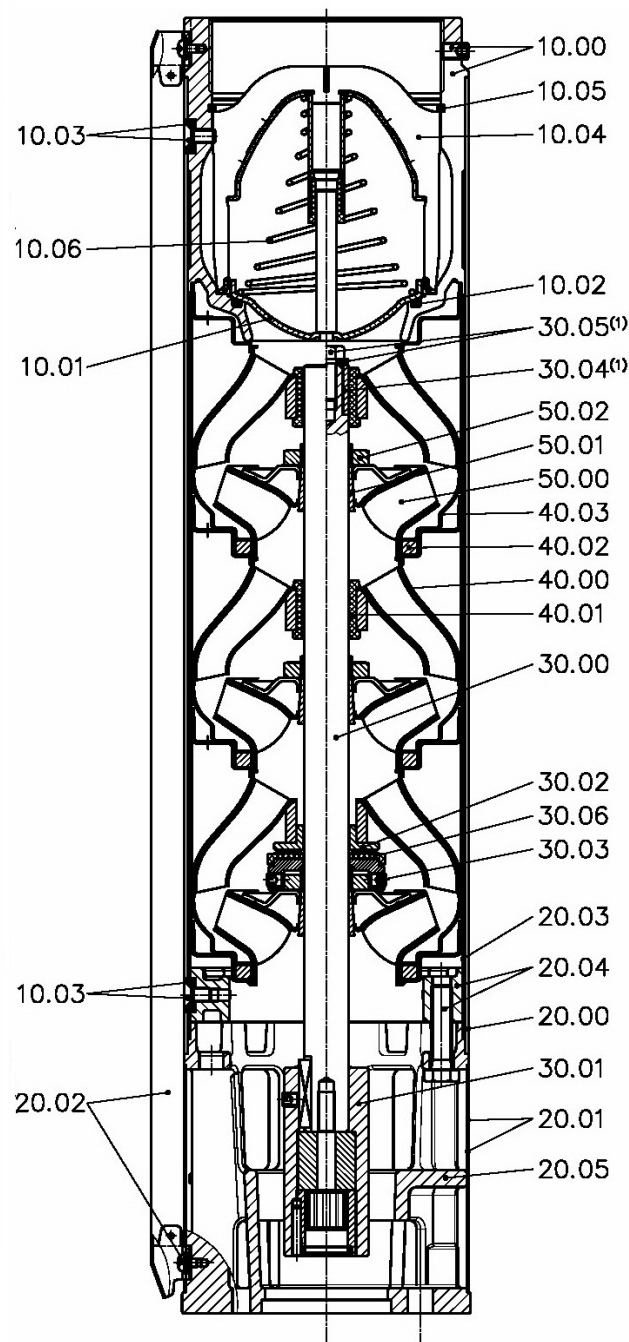
(1/2)

Construction

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(1) Only for type with more than 8 stages

(2/2)

Construction

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N°	PART NAME	MATERIAL		Q.TY
		Standard version	L version	
1000	Discharge head 5"	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	-
1001	Valve	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
1002	O-Ring	Nitrile rubber (NBR)	Nitrile rubber (NBR)	-
1003	Screw and inserts locking outer case	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
1004	Valve seat	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
1005	Seeger Ring	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
1006	Spring	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
2000	Outer casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	-
2001	Strainer	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
2002	Cable cover	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
2003	Spacer	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
2004	Flange and bolt	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	-
2005	Motor bracket	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	-
3000	Shaft	EN 1.4460 (AISI 329)	EN 1.4460 (AISI 329)	-
3001	Motor coupling	EN 1.4057 (AISI 431) + EN 1.4460 (AISI 329)	EN 1.4401 (AISI 316) + EN 1.4460 (AISI 329)	-
3002	Upper Up-thrust washer	EN 1.4460 (AISI 329)	EN 1.4460 (AISI 329)	-
3003	Lower Up-thrust washer	EN 1.4460 (AISI 329)	EN 1.4460 (AISI 329)	-
3004	Upper shaft sleeve (1)	Stainless steel with ceramic casting	Stainless steel with ceramic casting	-
3005	Screw and washer (1)	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
3006	Up-thrust disc	Teflon (PTFE)	Teflon (PTFE)	-
4000	Stage	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	-
4001	Intermediate bearing bush	Nitrile rubber (NBR)	Nitrile rubber (NBR)	-
4002	Liner ring	Teflon (PTFE)	Teflon (PTFE)	-
4003	Flange	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
5000	Impeller	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
5001	Split cone	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-
5002	Split cone nut	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	-