Technical Data

Pump Name BHSE 8160-5-R1 6/74.6 M8S

Customer	Date 2024-07-01	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-07-01 15:55:43	E-mail

Requested data

1	Pump type	SUBMERSIBLE MULTISTAGE 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	BHSE 8160-5-R1 6/74.6 M8S	Frequency		Hz	60
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	135
12	Speed rpm	3500		Designed	mm	135
13	No. of Stage	5		Min.	mm	135
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	170
16	Max Working Pressure bar			Min-	m³/h	100
17	Shut-off head bar	17.08	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	122.0
19	Shaft power kW			- (Qmin.)	m	154.0
20			Max. Shaft Power at max. impeller		kW	70.71
21	Required pump NPSH m		Efficiency		%	

Materials

22	Casing	Casting iron	Washers	Stainless steel
23	Impeller	Stainless steel - precision casting	Paint (Motor)	Synthetic alkyd
24	Shaft	Stainless steel		
25	Stainet	Stainless steel		
26	Screw	Stainless steel		
27	Nuts	Stainless steel		

Motor

28	Manufacturer	EBAS	Insulation class		Y
29	Type	M8S 100HP 220V TRIF. 60Hz	Phases		3~
30	Specific design	Submersible water filled type / 60 Hz / Pole pairs 1	Frame size		8
31	Rated power kW	74.6	Weight	kg	190
32	Number of poles	2	Electric voltage	V	220
33	Speed rpm	3440	Electric current	A	273
34	Degree of protection	IP 68			
35					

Remarks

EBARA

Performance Curve

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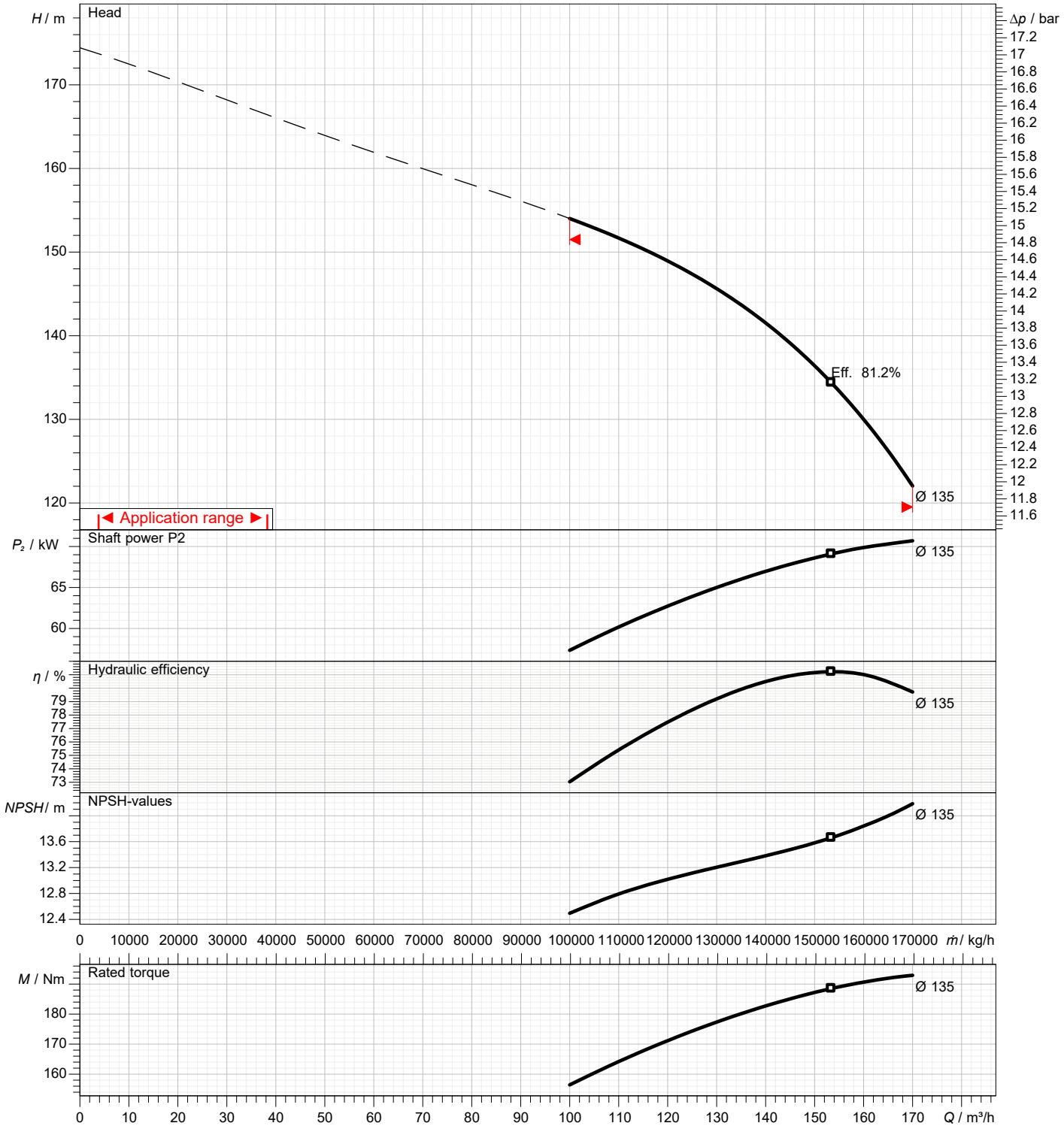
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	135	Speed	rpm	3500

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



EBARA

Dimensions

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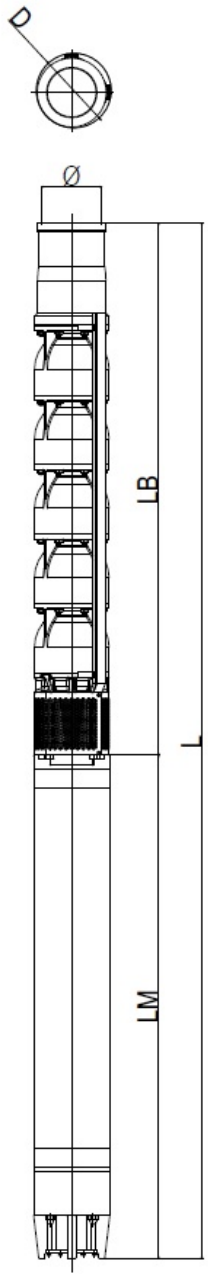

Dimensions in mm

1	D_01 Cable	193						
2	L	2706						
3	LB	1348						
4	LM	1358						
5	M Weight (kg)	190						
6	P Weight (kg)	99						
7	Total Weight (kg)	289						
8	Φ (inch)	5 (inch)						
9								
10								
11								
12								
13								
14								
15								

EBARA

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Construction

Pump name

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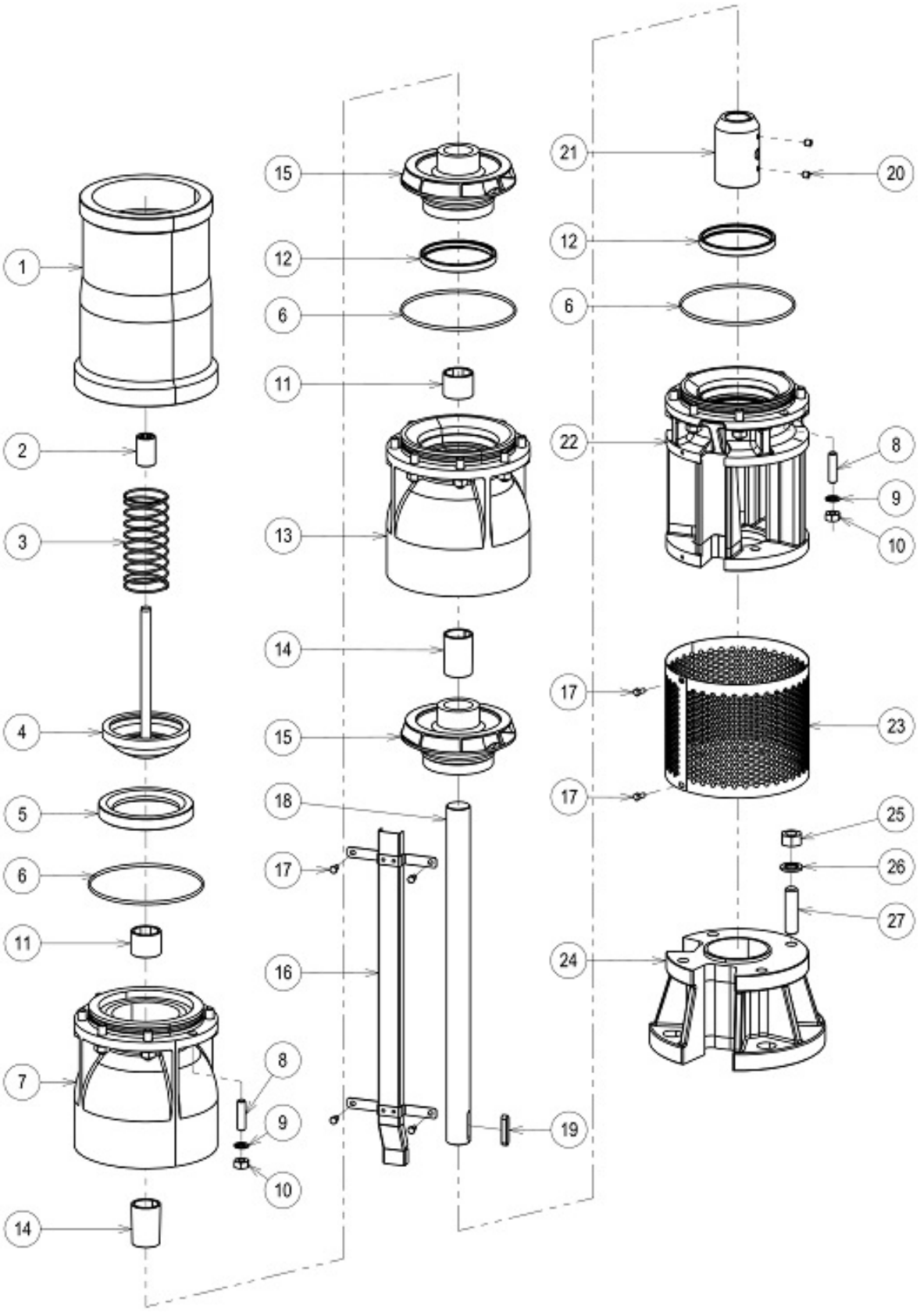

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Construction

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BHSE8_Parts Table

No.	Name	MATERIAL
1	DISCHARGE CASING	CAST IRON
2	VALVE ROD GUIDE	BRASS
3	SPRING	STAINLESS STEEL
4	VALVE DISK	STAINLESS STEEL
5	VALVE SHEET	NBR RUBBER
6	O-RING	NBR
7	INTERMEDIATE CASING 2	CAST IRON
8	STUD BOLT	STAINLESS STEEL
9	SPRING WASHER	STAINLESS STEEL
10	NUT	STAINLESS STEEL
11	BEARING SLEEVE	NBR
12	CASING WEARING RING	BRASS
13	INTERMEDIATE CASING	CAST IRON
14	TAPER COLLET	STAINLESS STEEL
15	IMPELLER	STAINLESS STEEL
16	CABLE COVER	STAINLESS STEEL
17	BOLT	STAINLESS STEEL
18	SHAFT	STAINLESS STEEL
19	KEY	STAINLESS STEEL
20	BOLT	CARBON STEEL
21	COUPLING	STAINLESS STEEL
22	SUCTION CASING	CAST IRON
23	STRAINER	STAINLESS STEEL
24	ADAPTER	CAST IRON
25	NUT	STAINLESS STEEL
26	SPRING WASHER	STAINLESS STEEL
27	STUD BOLT	STAINLESS STEEL

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Construction

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Construction

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