Technical Data

Pump Name BHSE 8160-15-R1 6/220.1 M12

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 8160-15-R1 6/220.1 M12	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	15		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	52.74	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	392.5
19	Shaft power kW			- (Qmin.)	m	484.3
20			Max. Shaft Power at max. impeller		kW	216.30
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	M12 295HP 380V TRIF. 60Hz	Phases		3~
30	Specific design	Submersible water filled type / 60 Hz / Pole pairs 1	Frame size		12
31	Rated power kW	220.07	Weight	kg	595
32	Number of poles	2	Electric voltage	V	380
33	Speed rpm	3445	Electric current	A	469
34	Degree of protection	IP 68			
35					

Remarks

EBARA

Performance Curve

Pump Name BHSE 8160-15-R1 6/220.1 M12

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Requested data

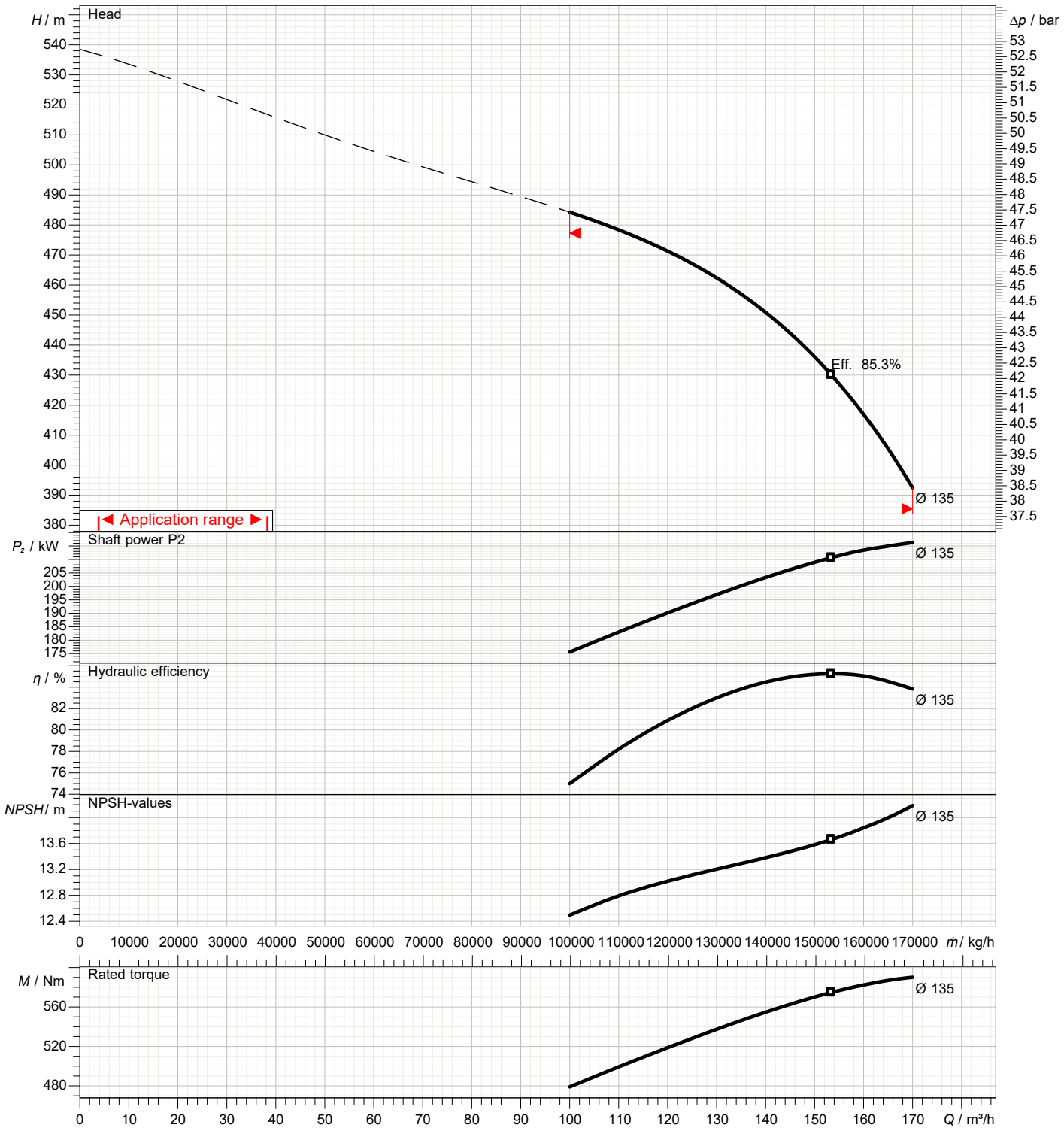
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

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

Pump name BHSE 8160-15-R1 6/220.1 M12

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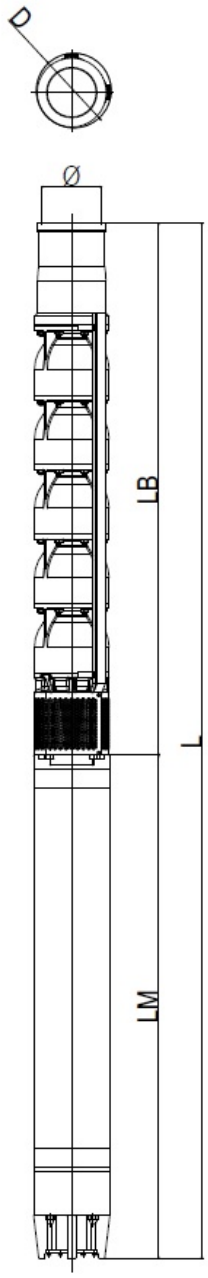

Dimensions in	mm							
1	D_01 Cable	144						
2	L	5168						
3	LB	3268						
4	LM	1900						
5	M Weight (kg)	595						
6	P Weight (kg)	250.6						
7	Total Weight (kg)	845.6						
8	Φ (inch)	5 (inch)						
9								
10								
11								
12								
13								
14								
15								

EBARA

(1/4)
Construction

Pump name

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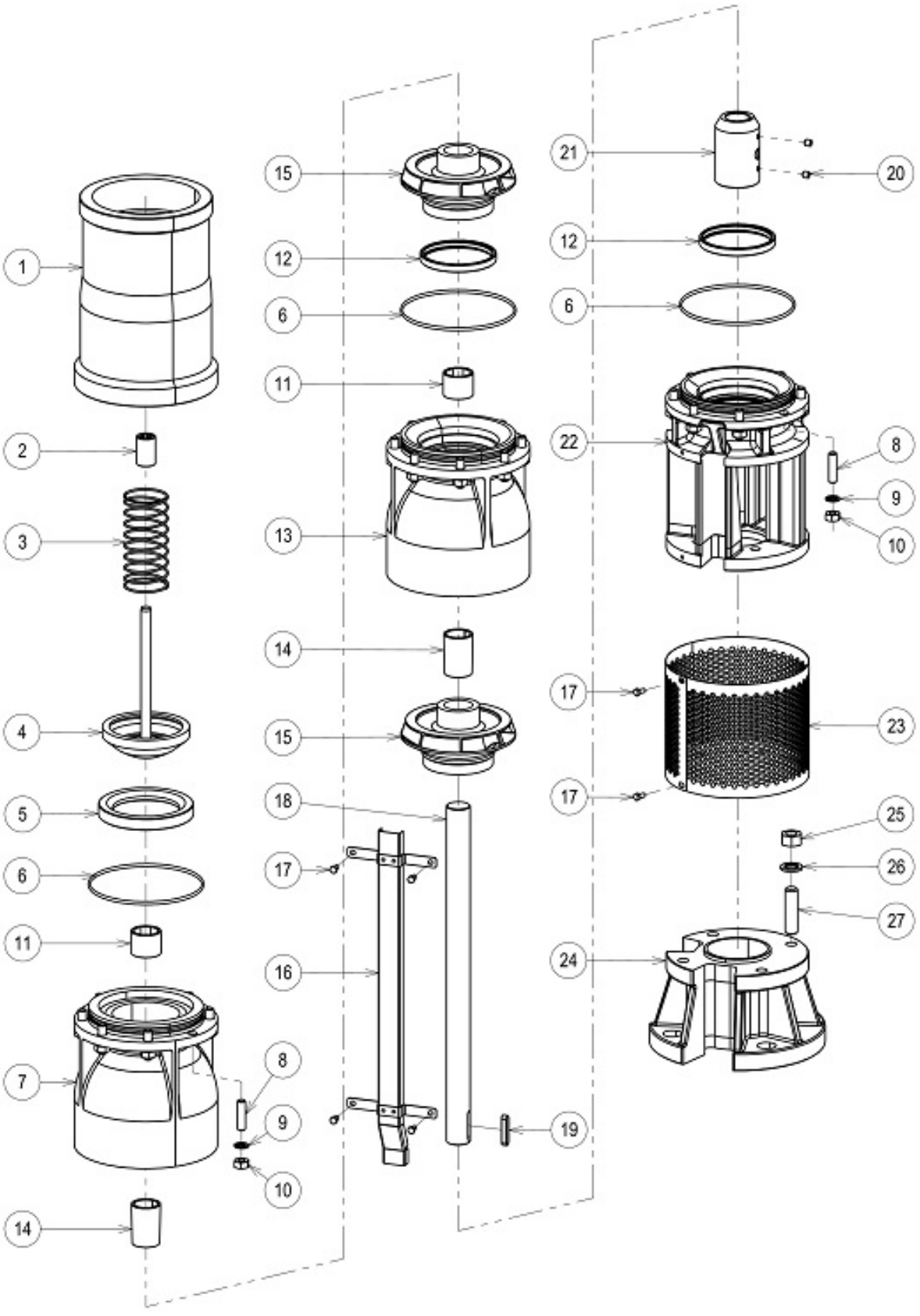

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Construction

Pump name

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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

Pump name

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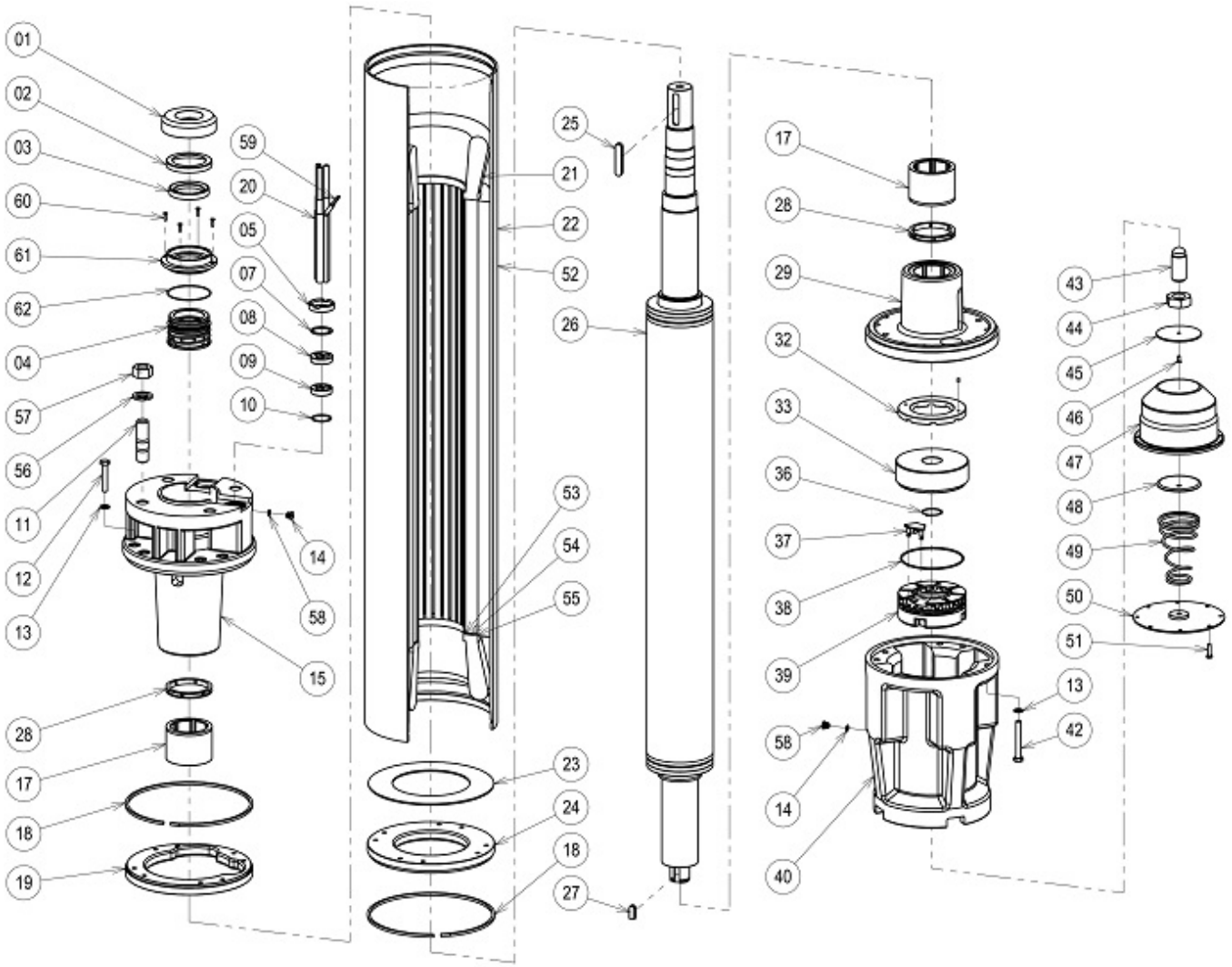

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Construction

Pump name

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Motor M12_Parts Table

No.	Name	MATERIAL
1	SAND SLINGER	CARBON STEEL/NBR
2	SEAL COVER	CARBON STEEL
3	OIL SEAL	NBR
4	CABLE NUT	STAINLESS STEEL
5	STUD BOLT	STAINLESS STEEL
6	PRESSURE RING FOR CABLE	BRASS
7	CABLE GLAND	NBR
8	METAL GASKET	BRASS
9	PLUG	BRASS
10	O-RING	NBR
11	UPPER BRACKET	CAST IRON
12	BEARING	GRAPHITE
13	STOP RING	CARBON STEEL
14	UPPER FRAME RING	CARBON STEEL
15	LEAD CABLE	CUPPER
16	COIL	CUPPER
17	MOTOR FRAME	CARBON STEEL
18	COIL PROTECTOR	PVC
19	LOWER FRAME RING	CARBON STEEL
20	KEY	STAINLESS STEEL
21	ROTOR WITH SHAFT	STAINLESS STEEL/CARBON STEEL
22	KEY	STAINLESS STEEL
24	LOWER BRACKET	CAST IRON
25	UPPER BEARING "A"	GRAPHITE
26	UPPER BEARING "B"	GRAPHITE
27	STUD BOLT	STAINLESS STEEL
28	LOCKING PIN	STAINLESS STEEL
29	THRUST DISK	STAINLESS STEEL
30	NUT CAP	CARBON STEEL
32	STOP RING	CARBON STEEL
33	THRUST PAD	STAINLESS STEEL
34	O-RING	NBR
35	OSCILLATING DISC	CAST IRON
36	THRUST BEARING HOUSING	CAST IRON
37	ADJUSTING NUT	CARBON STEEL
38	NUT	CARBON STEEL
39	DIAPHAGM PROTECTOR	STAINLESS STEEL
40	PLUG	BRASS
41	DIAPHRAGM	CR
42	SPRING DISC	STAINLESS STEEL
43	SPRING	STAINLESS STEEL
44	DIAPHAGM COVER	STAINLESS STEEL
45	BOLT	CARBON STEEL
46	COMPLETE STATOR	-
47	SLOT ISOLATOR	POLYESTER
48	WEDGE ISOLATOR	POLYESTER
50	SPRING WASHER	STAINLESS STEEL
51	NUT	STAINLESS STEEL