

Technical Data

Pump Name

BHSE 8090-14-R1 6/141.7 M10

Customer	Date	2024-07-01	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-01 15:55:48	E-mail

Requested data

1	Pump type	SUBMERSIBLE MULTISTAGE PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C
3	Flow m³/h		Kin. viscosity	mm²/s
4	Head m		Vapour pressure	bar
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density	kg/m³
7	Available system NPSH		Solids	Weight %
8	Ambient temperature °C	20		

Pump

9	Pump Name	BHSE 8090-14-R1 6/141.7 M10	Frequency	Hz	60
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	140
12	Speed rpm	3500		Designed mm	140
13	No. of Stage	14		Min. mm	140
14	Connection Suction side		Flow	Operating m³/h	
15	Connection Discharge side			Max- m³/h	120
16	Max Working Pressure bar			Min- m³/h	40
17	Shut-off head bar	50.35	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	323.6
19	Shaft power kW			- (Qmin.) m	492.3
20			Max. Shaft Power at max. impeller	kW	141.78
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	M10 190HP 380V TRIF. 60Hz	Phases	3~
30	Specific design	Submersible water filled type / 60 Hz / Pole pairs 1	Frame size	10
31	Rated power kW	141.74	Weight	kg
32	Number of poles	2	Electric voltage	V
33	Speed rpm	3430	Electric current	A
34	Degree of protection	IP 68		
35				

Remarks

Performance Curve

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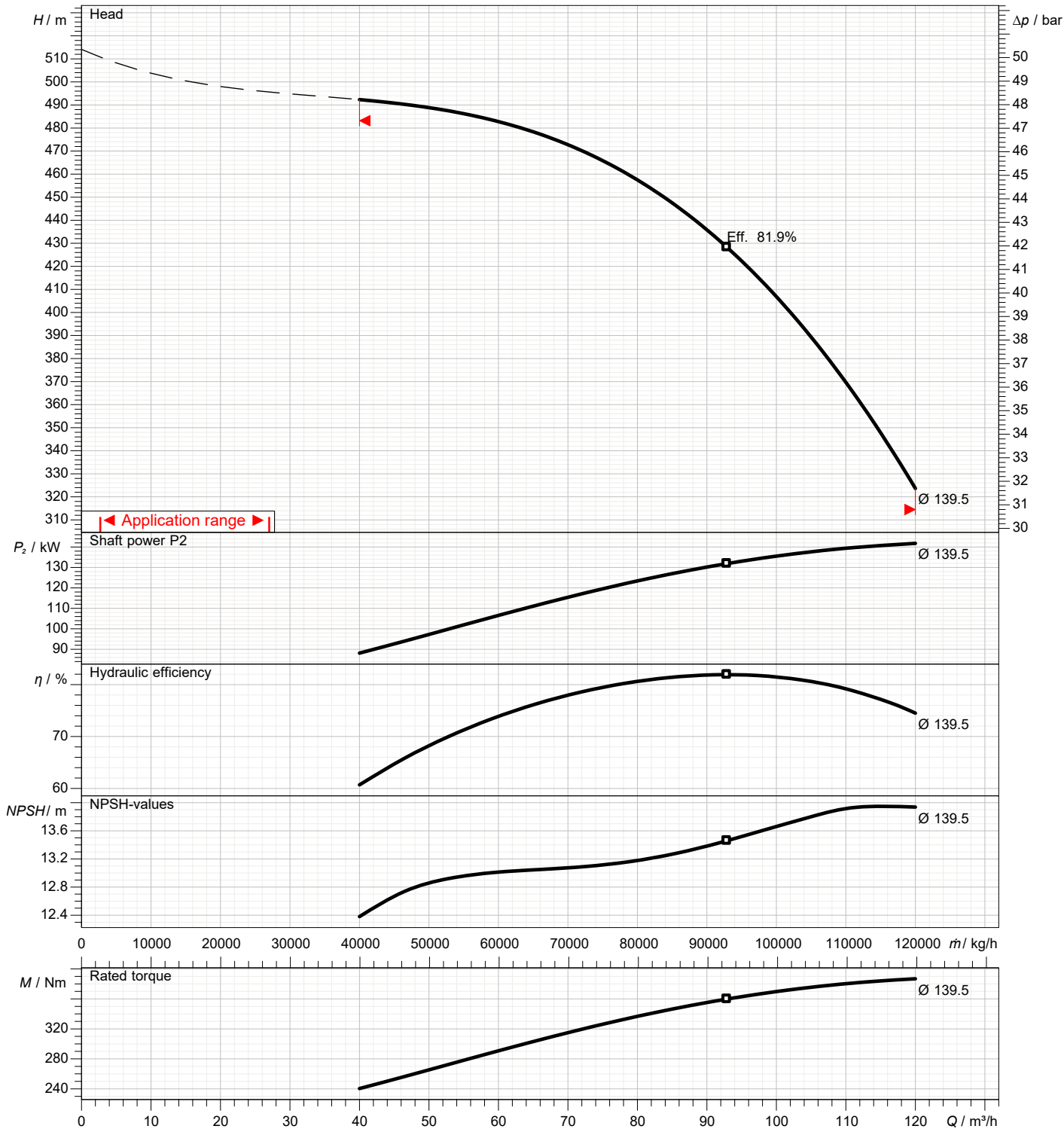
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	140	Speed	rpm	3500

Test standard: ISO 9906:2012 - Grade3B

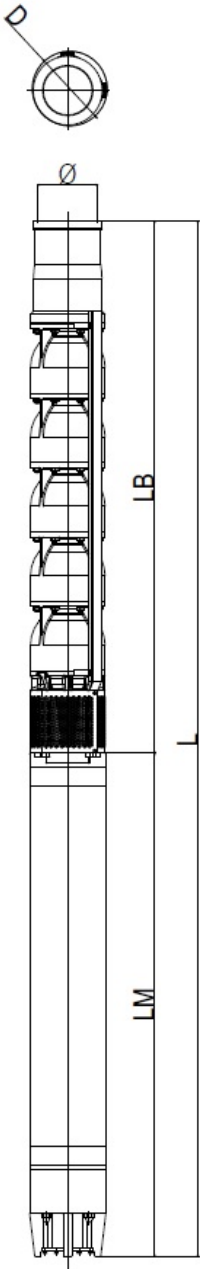
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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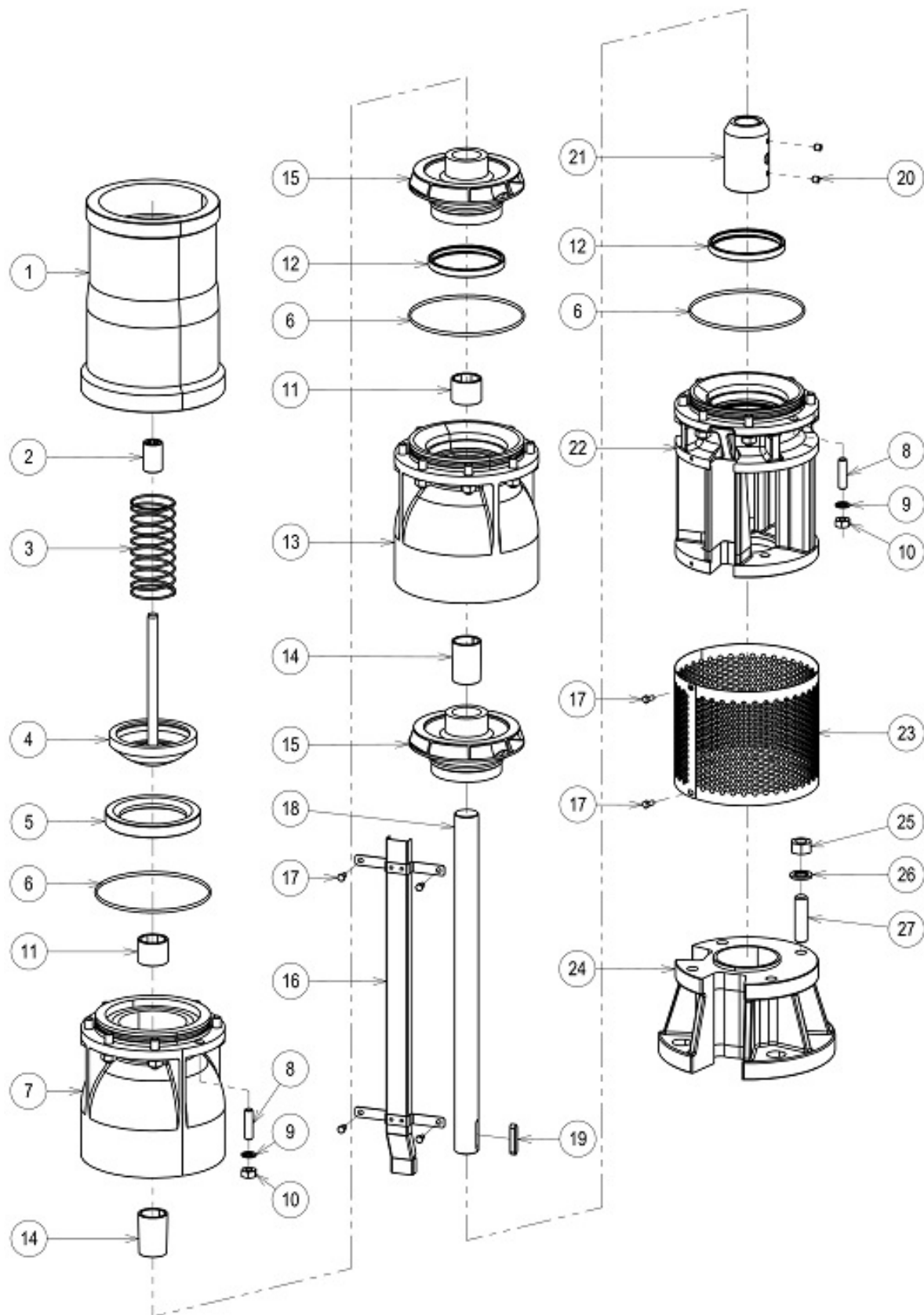
Dimensions in mm								
1	L	4800						
2	LB	2936						
3	LM	1864						
4	M Weight (kg)	380						
5	P Weight (kg)	229.7						
6	Total Weight (kg)	609.7						
7	Φ (inch)	5 (inch)						
8								
9								
10								
11								
12								
13								
14								
15								

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Construction

Pump name

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Construction

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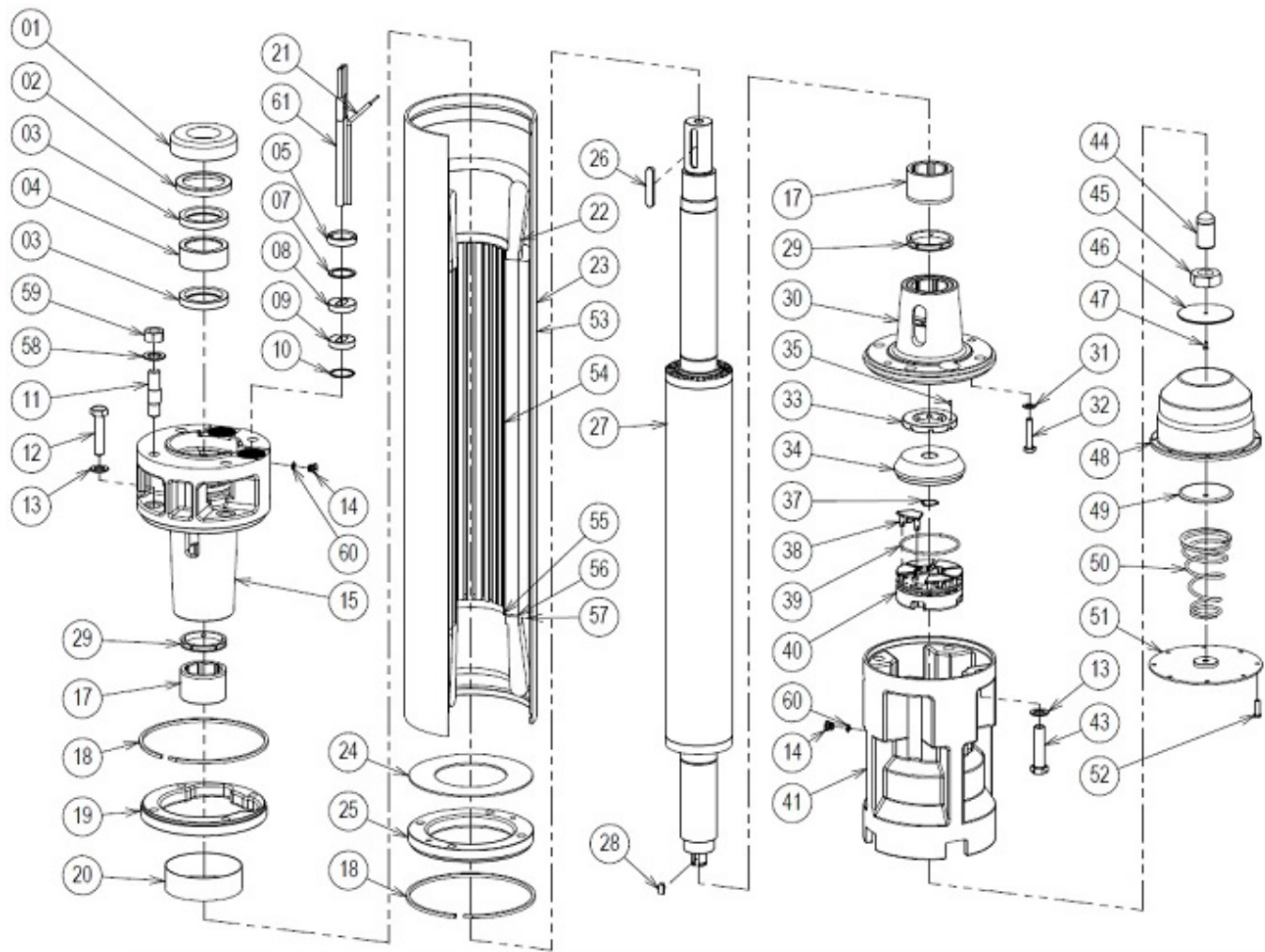
BHSE8_Parts Table		
No.	Name	MATERIAL
1	DISCHARGE CASING	CAST IRON
2	VALVE ROD GUIDE	BRASS
3	SPRING	STAINLESS STEEL
4	VALVE DISK	STAINLESS STEEL
5	VALVE SHEET	NBR RUBBER
6	O-RING	NBR
7	INTERMEDIATE CASING 2	CAST IRON
8	STUD BOLT	STAINLESS STEEL
9	SPRING WASHER	STAINLESS STEEL
10	NUT	STAINLESS STEEL
11	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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Motor M10_Parts Table		
No.	Name	MATERIAL
1	SAND SLINGER	CARBON STEEL/NBR
2	SEAL COVER	CARBON STEEL
3	OIL SEAL	NBR
4	ESPACIADOR	BRASS
5	CABLE NUT	STAINLESS STEEL
7	PRESSURE RING FOR CABLE	BRASS
8	CABLE GLAND "A"	NBR
9	CABLE GLAND "B"	NBR
10	PRESSURE RING FOR CABLE	BRASS
11	STUD BOLT	STAINLESS STEEL
12	BOLT	CARBON STEEL
13	METAL GASKET	BRASS
14	PLUG	BRASS
15	UPPER BRACKET	CAST IRON
17	UPPER BEARING	GRAPHITE
18	STOP RING	CARBON STEEL
19	UPPER FRAME RING	CARBON STEEL
20	COIL PROTECTOR RING	STAINLESS STEEL
21	LEAD CABLE	CUPPER
22	COIL	CUPPER
23	MOTOR FRAME	CARBON STEEL
24	COIL PROTECTOR	NBR
25	LOWER FRAME RING	CARBON STEEL
26	KEY	STAINLESS STEEL
27	ROTOR WITH SHAFT	STAINLESS STEEL/CARBON STEEL
28	KEY	STAINLESS STEEL
29	DISTANCING RING FOR SUPP	BRASS
30	LOWER BRACKET	CAST IRON
31	SPRING WASHER	STAINLESS STEEL
32	BOLT	CARBON STEEL
33	UPPER BEARING "A"	GRAPHITE
34	THRUST DISK	STAINLESS STEEL
37	STOP RING	CARBON STEEL
38	THRUST PAD	STAINLESS STEEL
39	O-RING	NBR
40	OSCILLATING DISC	CAST IRON
41	THRUST BEARING HOUSING	CAST IRON
43	BOLT	CARBON STEEL
44	ADJUSTING NUT	CARBON STEEL
45	NUT	STAINLESS STEEL
46	DIAPHAGM PROTECTOR	STAINLESS STEEL
47	PLUG	BRASS
48	DIAPHRAGM	CR
49	SPRING DISC	STAINLESS STEEL
50	SPRING	STAINLESS STEEL
51	DIAPHAGM COVER	STAINLESS STEEL
52	BOLT	CARBON STEEL
53	COMPLETE STATOR	-
54	INTERMEDIATE WEDGE	PTFE
55	SLOT ISOLATOR	POLYESTER
56	WEDGE ISOLATOR	POLYESTER
57	WEDGE	PLASTIC
58	SPRING WASHER	STAINLESS STEEL
59	NUT	STAINLESS STEEL
60	O-RING	NBR