

Technical Data

Pump Name

BHSE 8090-1 6/74.6 M8S

Customer	Date2024-07-01	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project IDProject 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	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 8090-1 6/74.6 M8S	Frequency Hz	60
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm94
12	Speed rpm	3500		Designed mm94
13	No. of Stage	1		Min. mm94
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h80
16	Max Working Pressure bar			Min- m³/h40
17	Shut-off head bar	40.07	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m233.3
19	Shaft power kW			- (Qmin.) m329.3
20			Max. Shaft Power at max. impeller kW	71.97
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

Performance Curve

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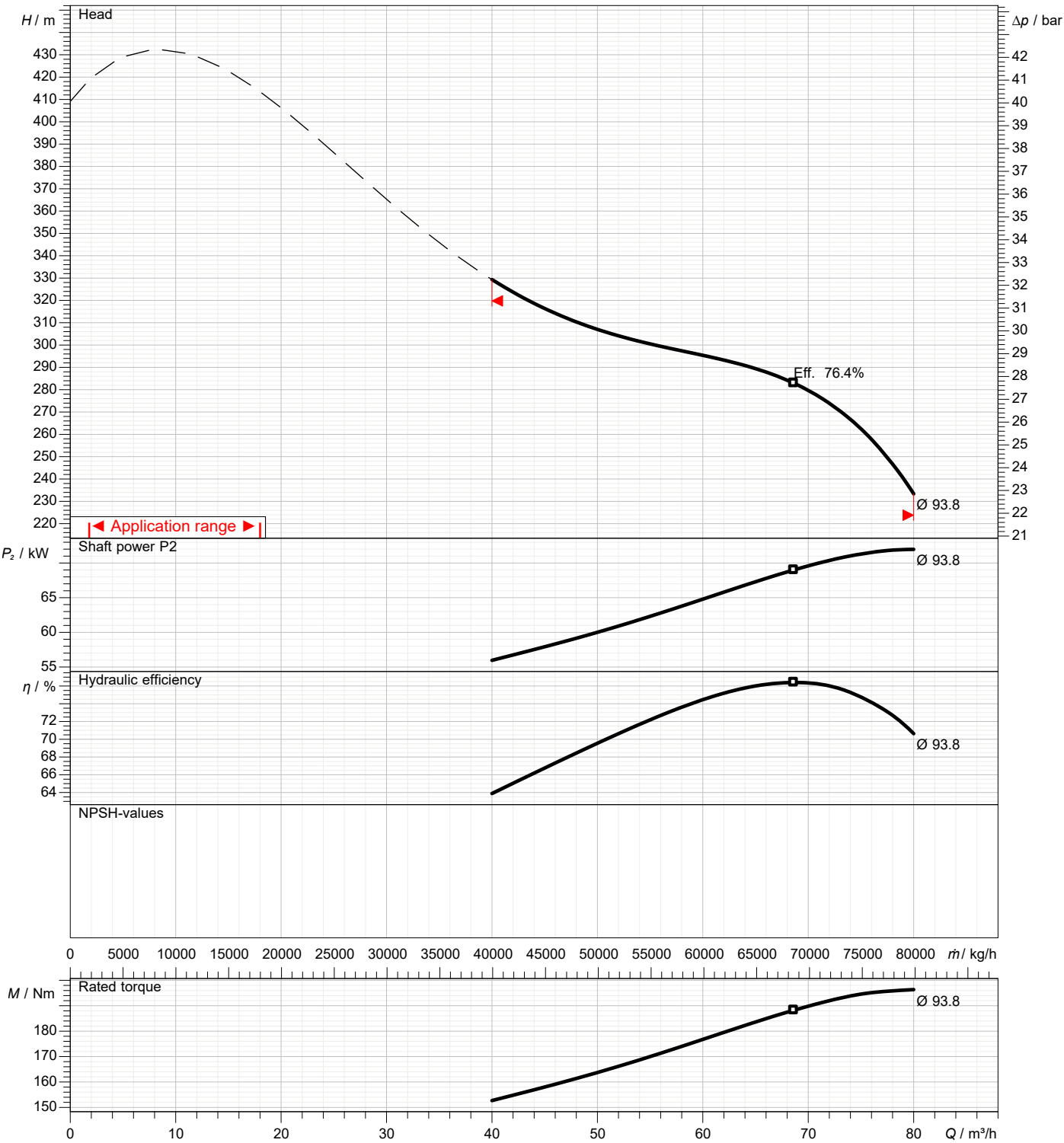
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	94	Speed	rpm	3500

Test standard: ISO 9906:2012 - Grade3B

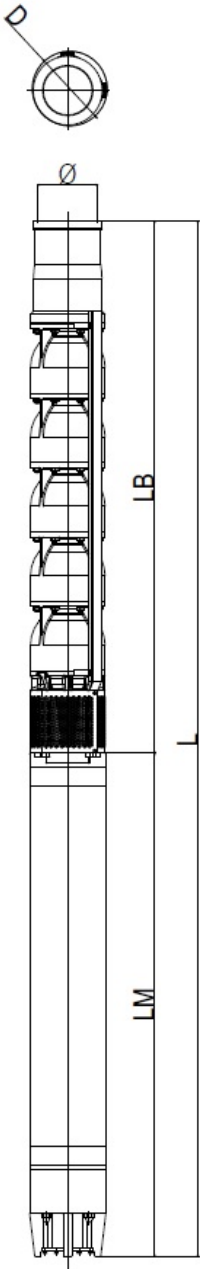
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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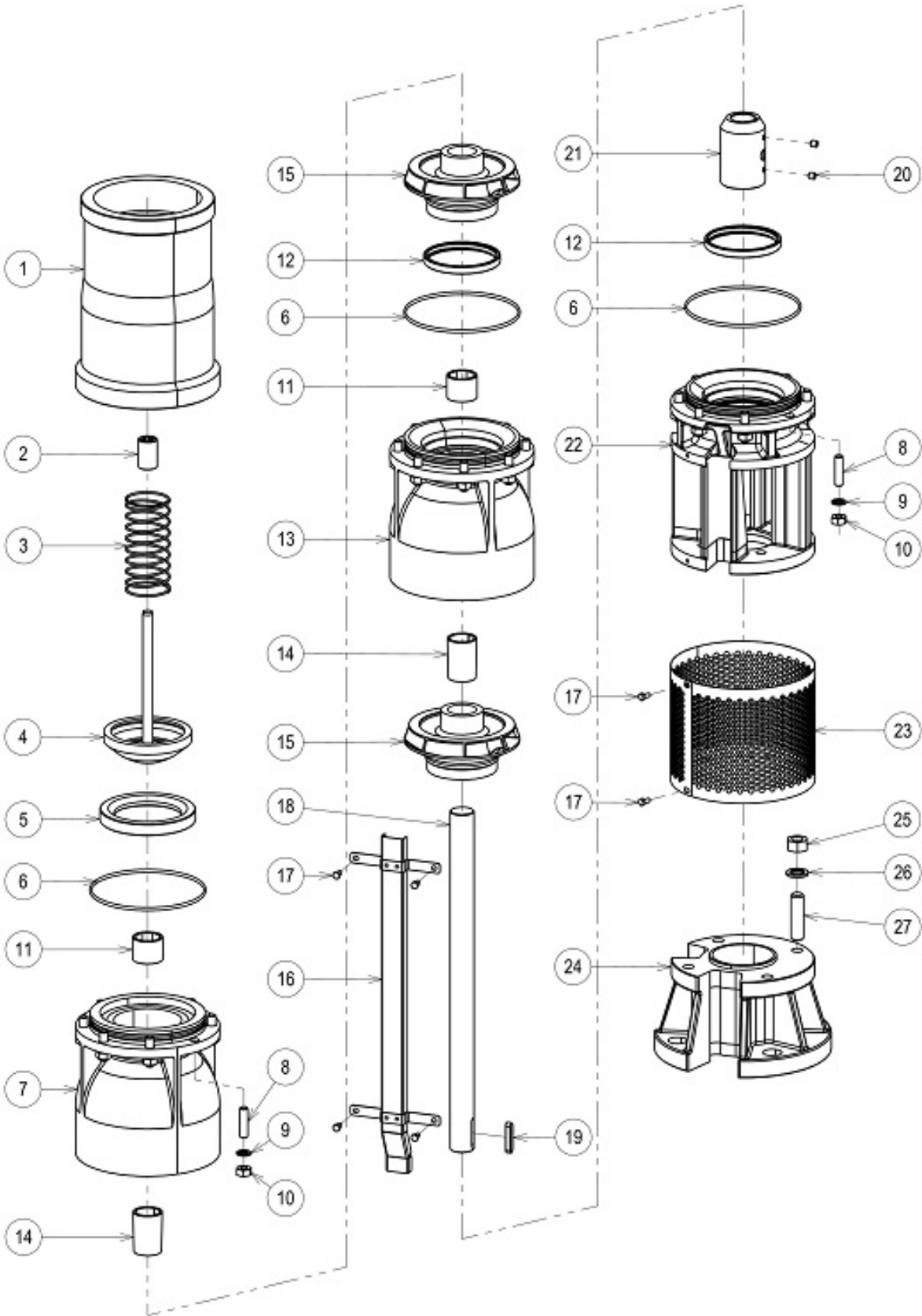
Dimensions in mm								
1	D_01 Cable	189						
2	L	1694						
3	LB	619						
4	LM	1075						
5	M Weight (kg)	86						
6	P Weight (kg)	43						
7	Total Weight (kg)	129						
8	Φ (inch)	5 (inch)						
9								
10								
11								
12								
13								
14								
15								

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Construction

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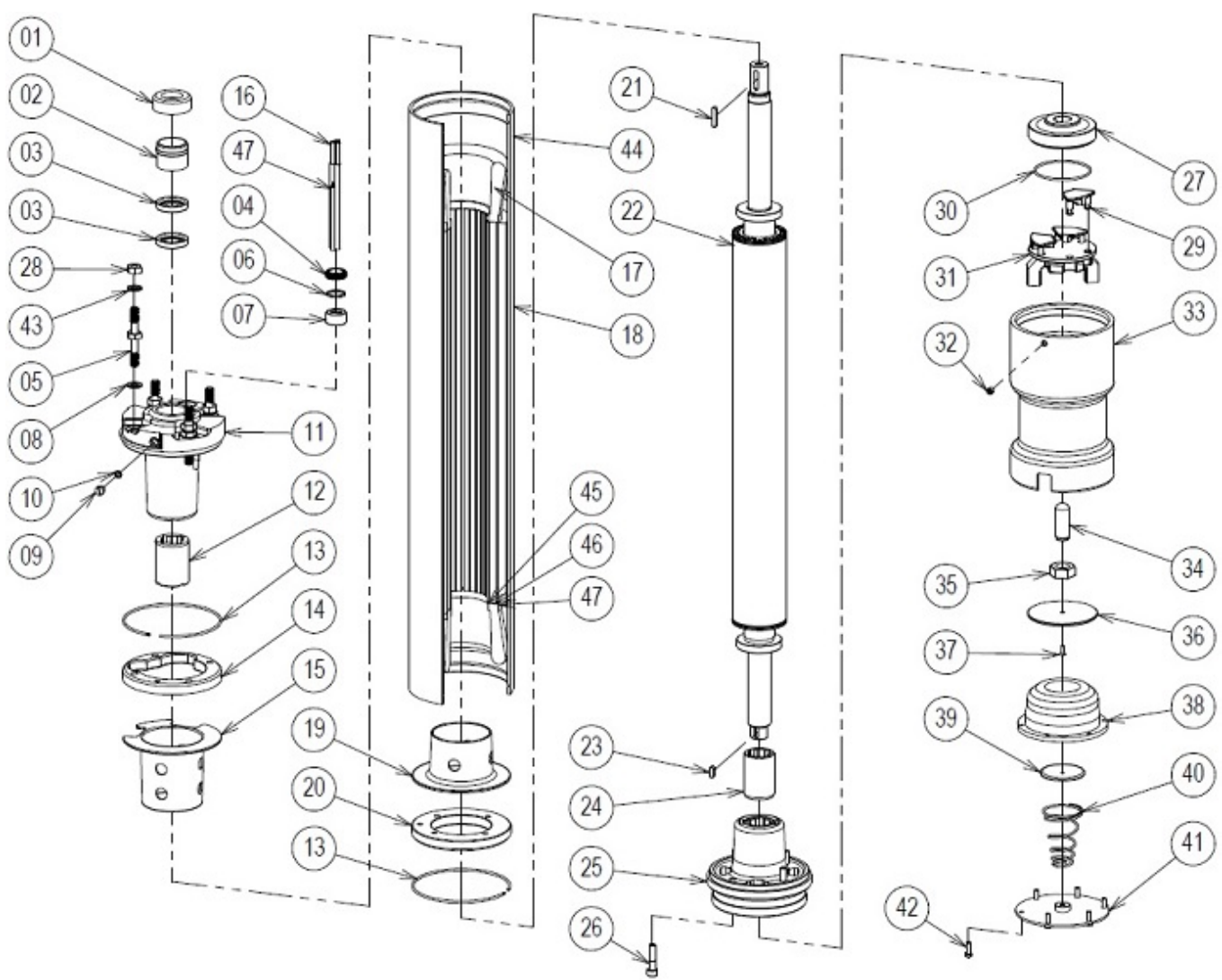
BHSE8_Parts Table		
No.	Name	MATERIAL
1	DISCHARGE CASING	CAST IRON
2	VALVE ROD GUIDE	BRASS
3	SPRING	STAINLESS STEEL
4	VALVE DISK	STAINLESS STEEL
5	VALVE SHEET	NBR RUBBER
6	O-RING	NBR
7	INTERMEDIATE CASING 2	CAST IRON
8	STUD BOLT	STAINLESS STEEL
9	SPRING WASHER	STAINLESS STEEL
10	NUT	STAINLESS STEEL
11	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 M6G_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	UPPER BEARING	GRAPHITE
13	CIRCLELY STOP RING	CARBON STEEL
14	UPPER FRAME RING	CARBON STEEL
15	UPPER COIL PROTECTOR	PVC
16	LEAD CABLE	CUPPER
17	COIL	CUPPER
18	MOTOR FRAME	CARBON STEEL
19	LOWER COIL PROTECTOR	PVC
20	LOWER FRAME RING	CARBON STEEL
21	KEY	STAINLESS STEEL
22	ROTOR WITH SHAFT	STAINLESS STEEL/CARBON STEEL
23	KEY	STAINLESS STEEL
24	LOWER BEARING	GRAPHITE
25	LOWER BRACKET	CAST IRON
26	BOLT	CARBON STEEL
27	THRUST DISK	STAINLESS STEEL
28	NUT	STAINLESS STEEL
29	THRUST PAD	STAINLESS STEEL
30	O-RING	NBR
31	OSCILLATING DISC	CAST IRON
32	BOLT	CARBON STEEL
33	THRUST BEARING HOUSING	CAST IRON
34	ADJUSTING NUT	CARBON STEEL
35	NUT	CARBON STEEL
36	DIAPHRAGM PROTECTOR	STAINLESS STEEL
37	BOLT	BRASS
38	DIAPHRAGM	CR
39	SPRING DISC	STAINLESS STEEL
40	SPRING	STAINLESS STEEL
41	DIAPHRAGM COVER	STAINLESS STEEL
42	BOLT	STAINLESS STEEL
43	SPRING WASHER	STAINLESS STEEL
44	COMPLETE STATOR	-
45	SLOT ISOLATOR	POLYESTER
46	WEDGE ISOLATOR	POLYESTER
48	WEDGE	PLASTIC