

Technical Data

Pump Name

MULTIGO 80/156

Customer	Date	2024-07-02	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-02 22:34:28	E-mail

Requested data

1	Pump type	CENTRIFUGAL 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	MULTIGO 80/156	Frequency Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 85
12	Speed rpm	3450		Designed mm 85
13	No. of Stage	5		Min. mm 85
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 7.2
16	Max Working Pressure bar	10		Min- m³/h 1.8
17	Shut-off head bar	5.83	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 17.8
19	Shaft power kW			- (Qmin.) m 57.1
20			Max. Shaft Power at max. impeller kW	
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	PPE+PS glass fibre reinforced		
23	Casing	AISI 304		
24	Shaft	AISI 431		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	MULTIGO 80/156 M_220_Single Phase	Phases	1~
30	Specific design	Submersible dry type / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	1.1	Weight kg	
32	Number of poles	2	Electric voltage V	220
33	Speed rpm	3450	Electric current A	7.2
34	Degree of protection	IP X8		
35				

Remarks

Performance Curve

Pump Name

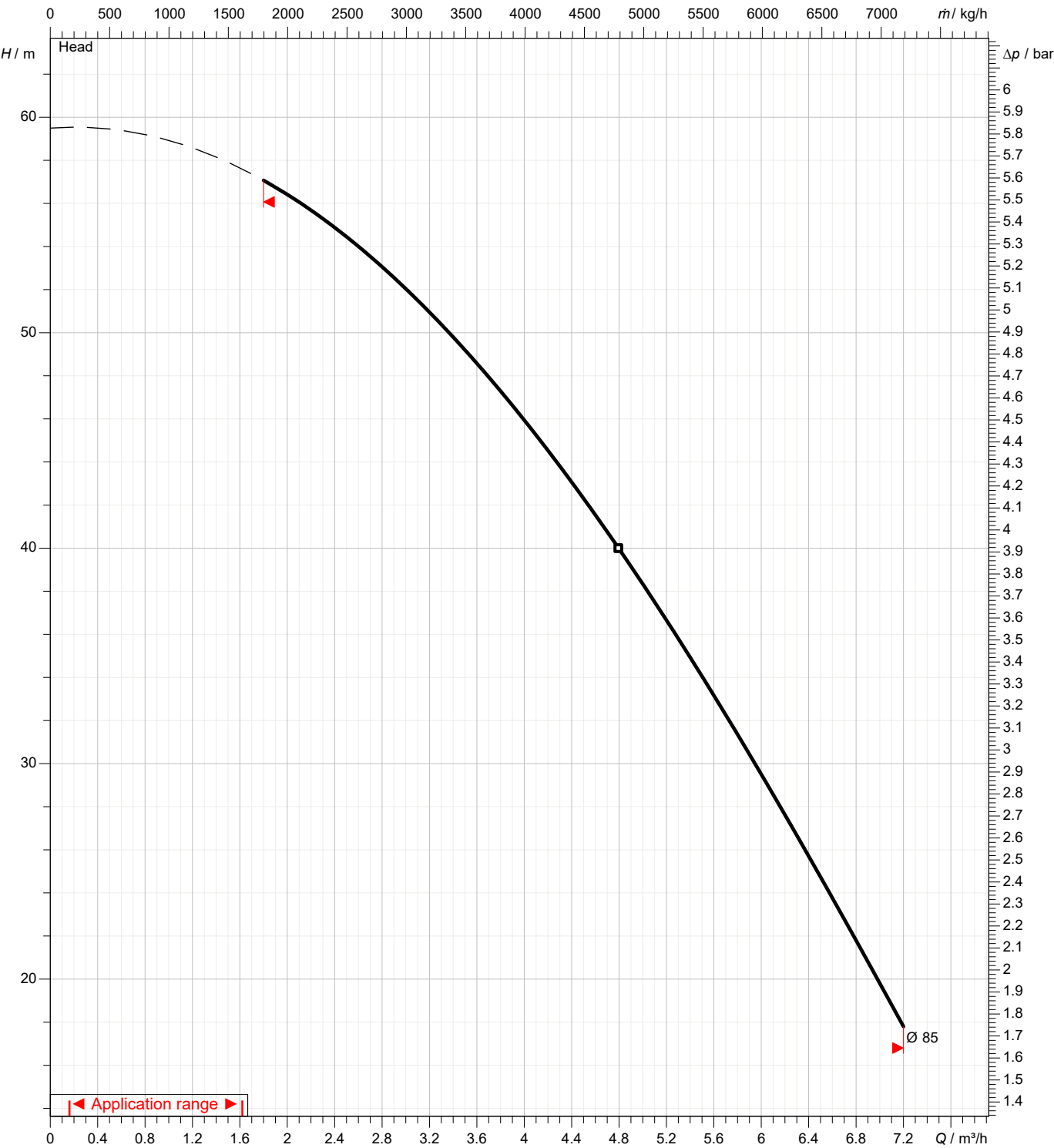
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Requested data				Pump					
1	Flow	m³/h		Operating flow	m³/h		Frequency	Hz	60
2	Head	m		Operating head	m		Number of poles		2
3	Geodetic head	m		Impeller diameter designed	mm	85	Speed	rpm	3450

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

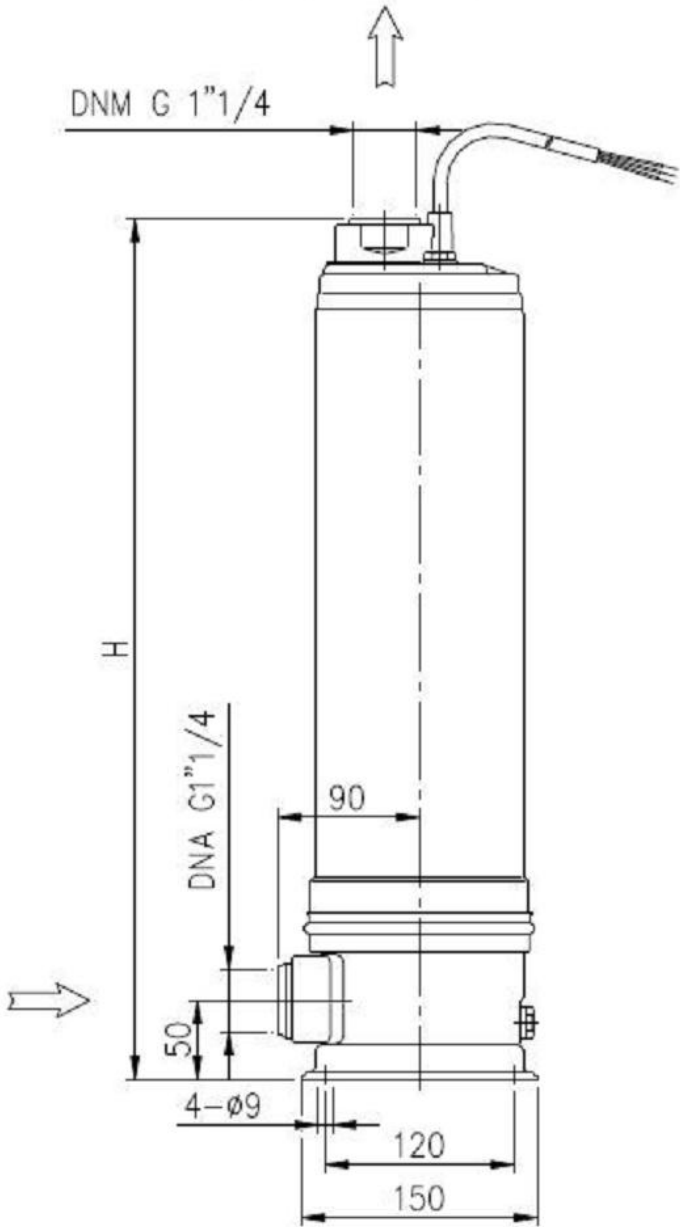


EBARA

Dimensions

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Dimensions in mm							
1	H	603					
2	Weight P&M	18,3 kg					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

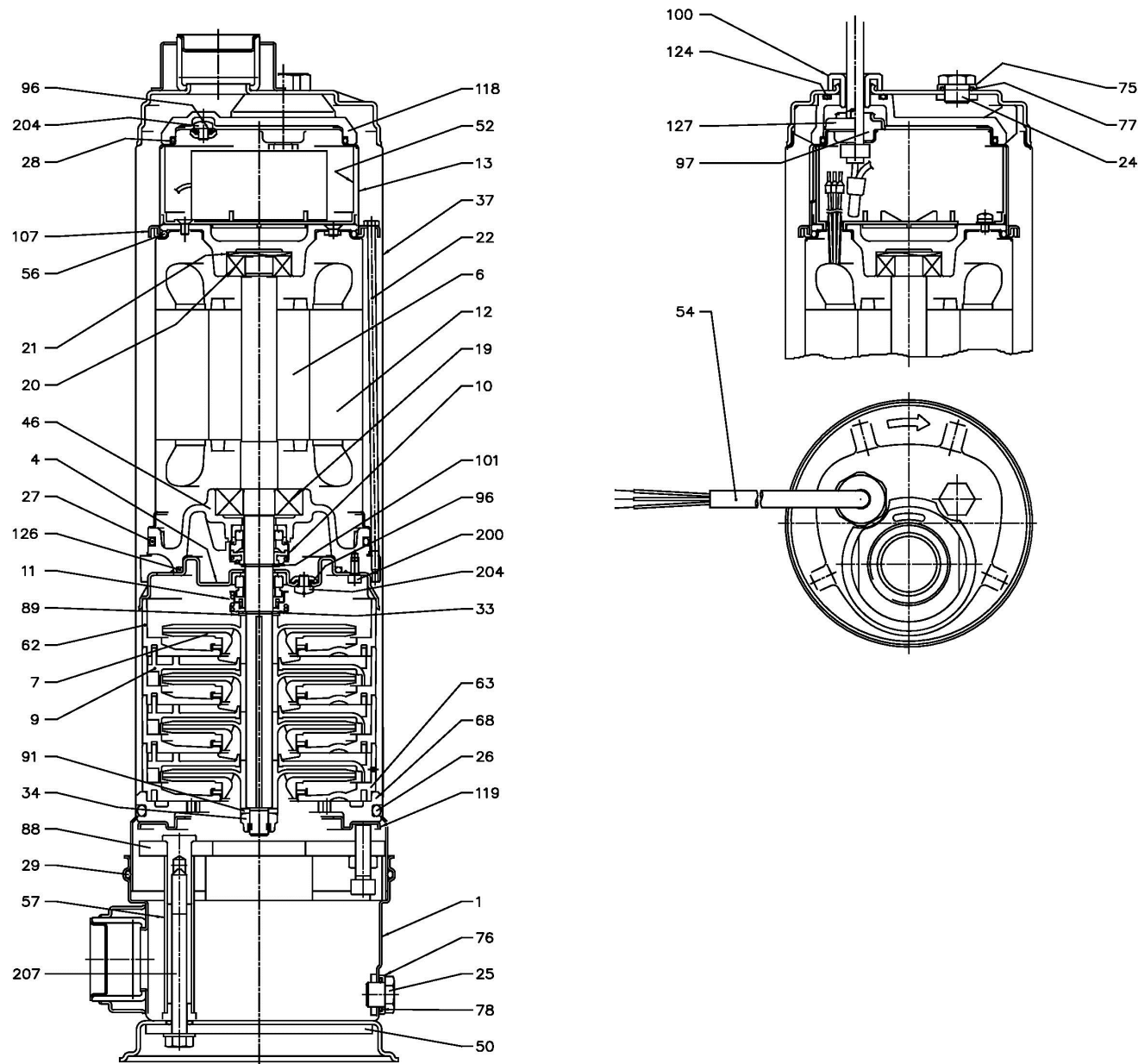
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Construction

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Construction

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	EN 1.4301 (AISI 304)			1
4	Casing ring	EN 1.4301 (AISI 304)			1
6	Shaft with rotor	EN 1.4057 (AISI 431)			1
7	Impeller	PPE+PS glass fibre reinforced			[2]
9	Diffuser	PPE+PS glass fibre reinforced			[2]
10	Motor side mechanical seal [1]	Carbon/Ceramic/NBR			1
11	Pump side mechanical seal [1]	Carbon/Ceramic/NBR			1
12	Motor frame with stator	-			1
13	Motor cover	EN 1.4301 (AISI 304)			1
19	Lower side ball bearing	-	6303 ZZ		1
20	Upper side ball bearing	-	6302 ZZ		1
21	Adjusting ring	Steel C70			1
22	Tie rod	EN 1.4305 (AISI 303)	M4		3
24	Header plug	EN 1.4305 (AISI 303)	G 1/4"		1
25	Drain plug	EN 1.4305 (AISI 303)	G 1/4"		1
26	O ring	NBR	Ø 120.7X5.34	OR 201	1
27	O ring	NBR	Ø 110.7X3.53	OR 4437	1
28	O ring	NBR	Ø 88.5X3.53	OR 4350	1
29	O ring	NBR	Ø 138X3.5		1
33	Seeger ring	EN 1.4301 (AISI 304)	Ø 14	JIS B2804-1978	1
34	Impeller nut	EN 1.4301 (AISI 304)	M10x1.25	U7474	1
37	External pump casing	EN 1.4301 (AISI 304)			1
46	Bearing housing	Brass			1
50	Casing support	EN 1.4301 (AISI 304)			1
52	Terminal insulating box	PA66			1
54	Power cable	-			1
56	O ring	NBR	Ø 98.02x3.53	OR 4387	1
57	Bolt	EN 1.4305 (AISI 303)			2
62	Stage housing	PPE+PS glass fibre reinforced			[2]
63	Stage housing with hall	PPE+PS glass fibre reinforced			1
68	Lower spacer	PPE+PS glass fibre reinforced			1
75	Washer	EN 1.4301 (AISI 304)	G 1/4"		1
76	Washer	EN 1.4301 (AISI 304)	G 1/4"		1
77	O ring	NBR	Ø 13.1x2.62	OR 117	1
78	O ring	NBR	Ø 13.1x2.62	OR 117	1
88	Retainer ring	EN 1.4301 (AISI 304)			1
89	Washer	EN 1.4301 (AISI 304)	Ø 14.1x22x1		1
91	Washer	EN 1.4301 (AISI 304)	Ø 10.2x20x2.5		1
96	O ring	NBR	Ø 4.48x1.78	OR 2018	3
97	Cable entry	NBR	Ø 16.5x20		1
100	Lock screw	EN 1.4305 (AISI 303)			1
101	Seeger ring	EN 1.4021 (AISI 420)	Ø 15	U7435	1
107	Retainer ring	EN 1.4301 (AISI 304)	Ø119X1.2		1
118	Upper spacer	Brass			1
119	Flange	EN 1.4301 (AISI 304)			1
124	O ring	NBR	Ø25.8X3.53	OR 134	1
126	O ring	NBR	Ø82.14X3.53	OR 4325	1
127	Cable connector	EN 1.4301 (AISI 304)			1
200	Screw	Stainless steel A2 UNI 7323	M4x8	UNI 5931	3
204	Screw	Stainless steel A2 UNI 7323	M5x6	UNI 7687	3
207	Screw	Stainless steel A2 UNI 7323	M8X80	UNI 5737	4

[1] See **CONSTRUCTION 4**

[2] See **CONSTRUCTION 3**

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Pump type	POS. 7 Impeller	POS. 9 Diffuser	POS. 62 Stage housing
MULTIGO 40/86	4	3	4
MULTIGO 40/106	5	4	5
MULTIGO 40/126	6	5	6
MULTIGO 40/156	7	6	7
MULTIGO 80/126	4	3	4
MULTIGO 80/156	5	4	5

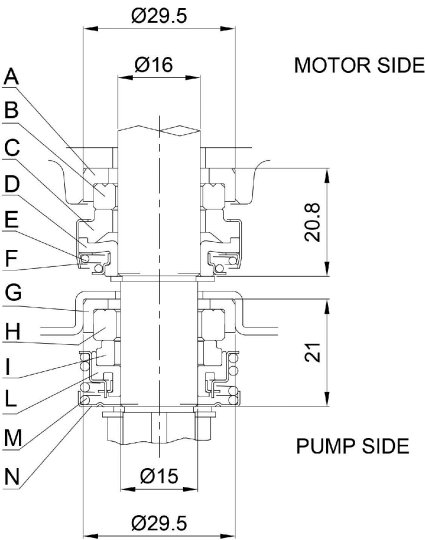
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REF	PART NAME	MATERIAL Standard version
A	Rubber seat	NBR
B	Stationary ring	Ceramic
C	Rotary ring	Carbon
D	Rotary seal	NBR
E	Coil spring	AISI 304
F	Seal cover	AISI 304
G	Rubber seat	NBR
H	Stationary ring	Ceramic
I	Rotary ring	Carbon
L	Rotary seal	NBR
M	Coil spring	AISI 304
N	Seal cover	AISI 304