

Technical Data

Pump Name

OY 4N4-36/3.0

Customer	Date	2024-06-16	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-16 15:45:44	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	OY 4N4-36/3.0	Frequency	Hz	50
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type		with EBARA MOTOR OIL - three phase
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	76
12	Speed rpm	2850		Designed mm	76
13	No. of Stage	36		Min. mm	76
14	Connection Suction side		Flow	Operating m³/h	
15	Connection Discharge side	UNI ISO 228		Max- m³/h	5.7
16	Max Working Pressure bar			Min- m³/h	1.8
17	Shut-off head bar	24.53	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	64.4
19	Shaft power kW			- (Qmin.) m	228.6
20			Max. Shaft Power at max. impeller	kW	2.52
21	Required pump NPSH m		Efficiency	%	

Materials

22	Impeller	1xsf		
23	Intermediate casing	EN 1.4301 (AISI 304)		
24	Shaft	EN 1.4301 (AISI 304)		
25				
26				
27				

Motor

28	Manufacturer	EBARA MOTOR	Insulation class	F
29	Type	4N4-36/3.0_380_Three Phase	Phases	3~
30	Specific design	Submersible oil filled type / 50 Hz / Pole pairs 1	Frame size	4"
31	Rated power kW	3	Weight kg	13.1
32	Number of poles	2	Electric voltage V	380
33	Speed rpm	2860	Electric current A	7.6
34	Degree of protection	IP 58		
35				

Remarks

Performance Curve

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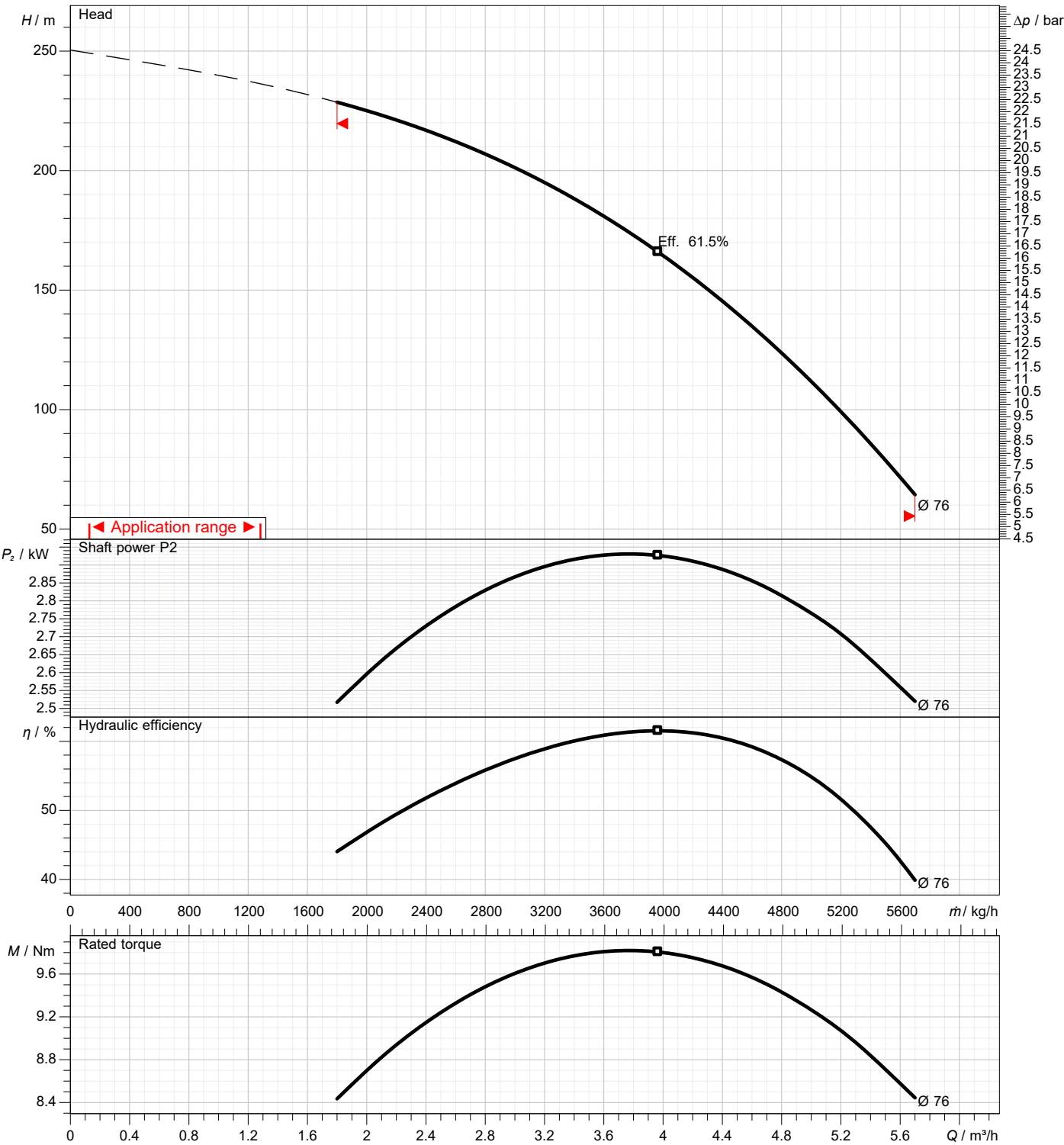
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	76	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

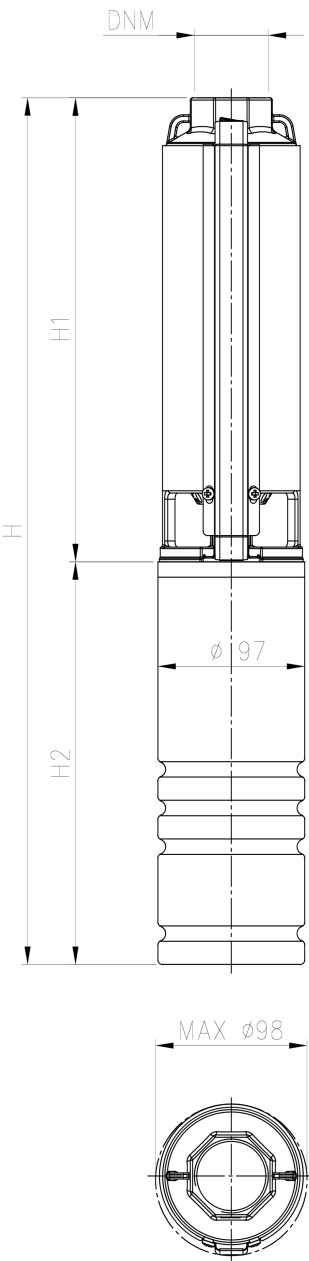
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	DNM	G 1 1/4					
2	H	1527					
3	H1	983					
4	H2	544					
5	Weight P&M	20,9 kg					
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

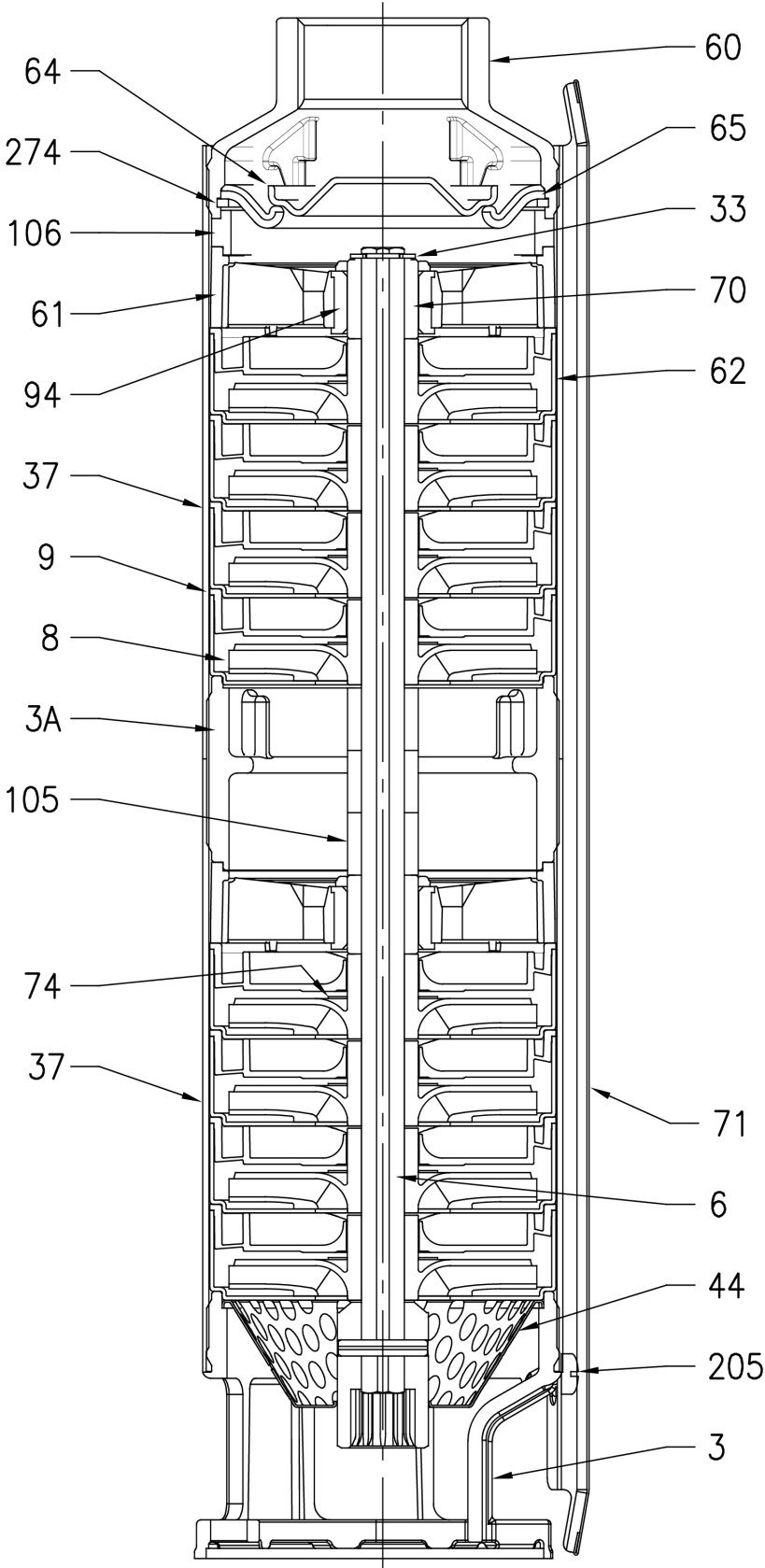
(1/3)

Construction

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(2/3)

Construction

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N°	PART NAME	MATERIAL	Q.TY
3	Bracket	EN 1.4308 (ASTM CF8)	1
3A	Join ring	EN 1.4308 (ASTM CF8)	[*]
6	Pump shaft with coupling	EN 1.4301 (AISI 304)	1
8	Impeller	Ixef®	[*]
9	Diffuser	PPE+PS Glass fibre reinforced	[*]
33	Elastic Ring	EN 1.4301 (AISI 304)	1
37	Outer casing	EN 1.4301 (AISI 304)	[*]
44	Strainer	EN 1.4301 (AISI 304)	1
60	Discharge casing	EN 1.4308 (ASTM CF8)	1
61	Upper / Intermediate bracket	PPE+PS Glass fibre reinforced	[*]
62	Stage housing	EN 1.4301 (AISI 304)	[*]
64	Valve	EN 1.4301 (AISI 304)	1
65	Valve seat	EN 1.4301 (AISI 304) + EPDM Rubber	1
70	Shaft sleeve bearing	Alumina (Ceramic)	[*]
71	Cable guard	EN 1.4301 (AISI 304)	1
74	Thrust washer	EN 1.4301 (AISI 304)	[*]
94	Bearing	EPDM Rubber	[*]
105	Spacer	PPE+PS Glass fibre reinforced	[*]
106	Spacer	NORYL+GF20%	1
205	Screw (M4 x 6 UNI 7687)	EN 1.4301 (AISI 304)	2
274	Elastic Ring	EN 1.4310 (AISI 302)	1

[*] See **CONSTRUCTION 3**

(3/3)

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Pump type	N° 3A Join ring	N° 8 Impeller	N° 9 Diffuser	N° 37 Outer casing	N° 61 Upper / Intermediate bracket	N° 62 Stage housing	N° 70 Shaft sleeve bearing	N° 73 Thrust washer first impeller	N° 74 Thrust washer	N° 94 Bearing	N° 105 Spacer
4N4-4	-	4	4	1	1	4	1	-	4	1	-
4N4-7	-	7	7	1	1	7	1	-	7	1	-
4N4-9	-	9	9	1	1	9	1	-	9	1	-
4N4-13	-	13	13	1	1	13	1	-	13	1	-
4N4-18	-	18	18	1	1	18	1	-	18	1	-
4N4-27	-	27	27	1	1	27	1	-	27	1	-
4N4-36	1	36	36	2	2	36	2	-	36	2	1
4N4-48	1	48	48	2	2	48	2	-	48	2	1