

Technical data

Pump name

4N4-13

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		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		4N4-13	Frequency	Hz	60	
10	Design		SUBMERSIBLE MULTISTAGE PUMPS	Installation type		without motor	
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	76
12	Speed	rpm	3450		Designed	mm	76
13	No. of Stage		13		Min.	mm	76
14	Connection	Suction side		Flow	Operating	m³/h	
15	Connection	Discharge side	UNI ISO 228		Max-	m³/h	6.9
16	Max Working Pressure	bar			Min-	m³/h	2.1
17	Shut-off head	bar	12.34	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	30.5
19	Shaft power	kW	(Power / Stage)		- (Qmin.)	m	114.7
20				Max. Shaft Power at max. impeller	kW	1.57	(Power / Stage)
21	Required pump NPSH	m		Efficiency	%		

Materials

22	Impeller		lexef			
23	Casing		EN 1.4301 (AISI 304)			
24	Shaft		EN 1.4301 (AISI 304)			
25						
26						
27						

Motor

28	Manufacturer		without motor	Insulation class		
29	Type		without motor 1	Phases		
30	Specific design		without motor / 60 Hz / Pole pairs 1	Frame size		
31	Rated power	kW		Weight	kg	
32	Number of poles		2	Electric voltage	V	
33	Speed	rpm		Electric current	A	
34	Degree of protection					
35						

Remarks

Performance curve

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Requested data

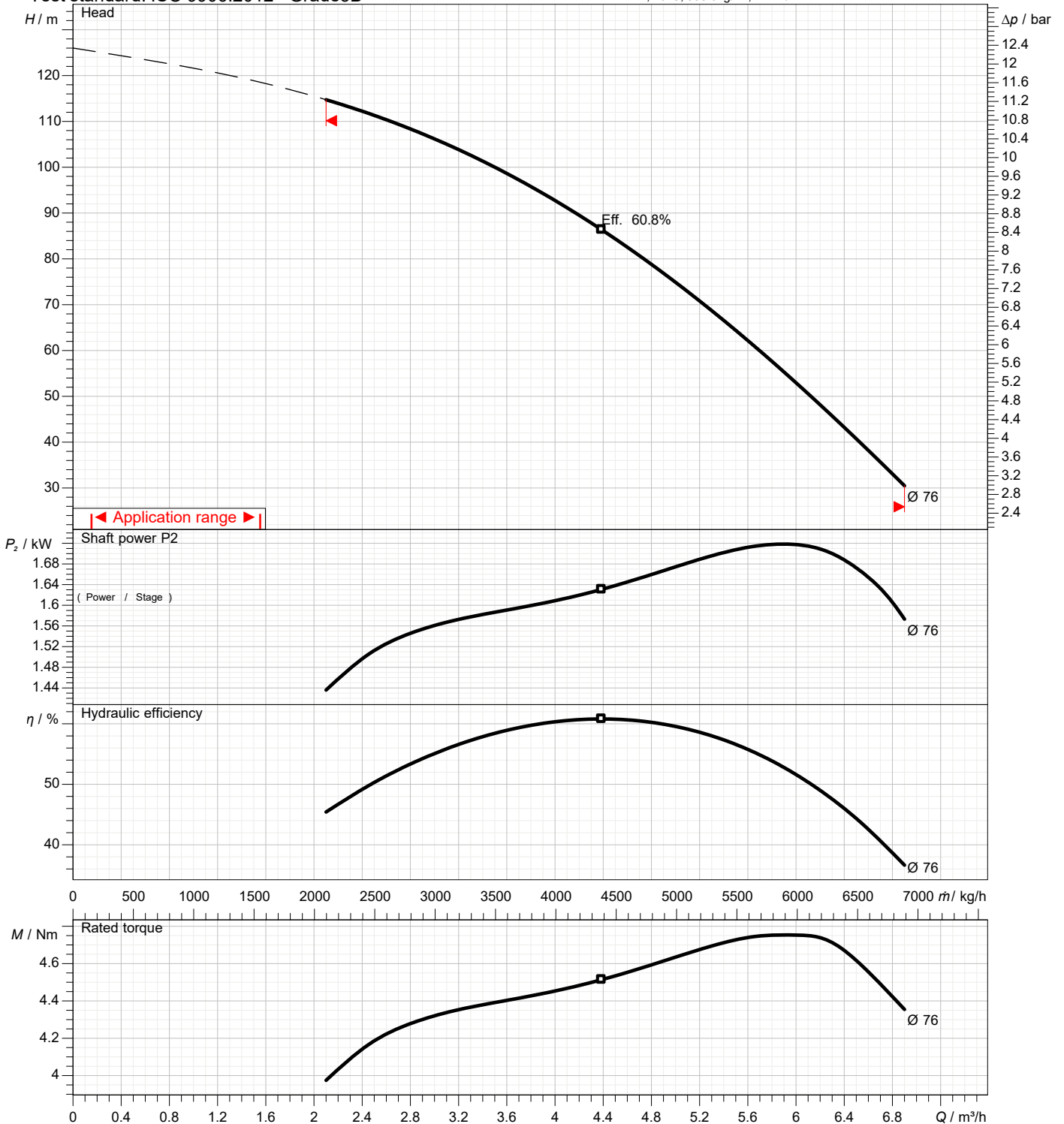
1	Flow	m ³ /h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m ³ /h		Frequency	Hz	60	
Operating head	m		Number of poles		2	
Impeller Diameter	Designed	mm	76	Speed	rpm	3450

Test standard: ISO 9906:2012 - Grade3B

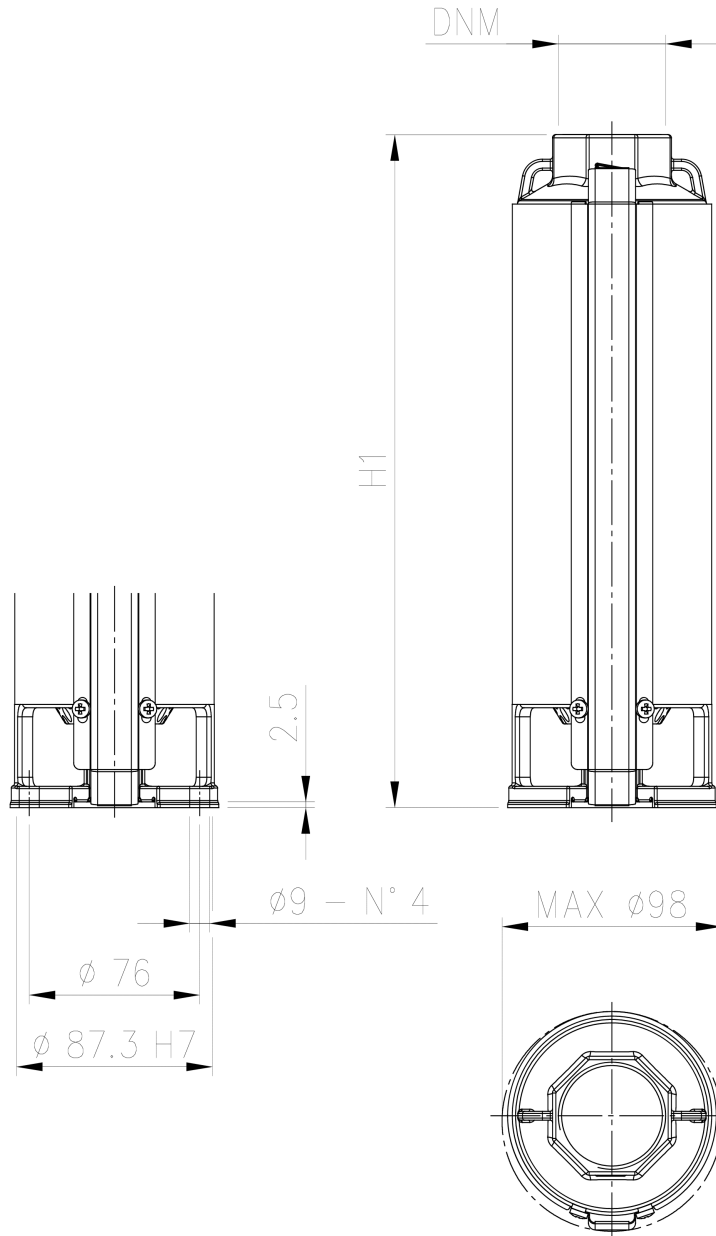
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	DNM	G 1 1/4					
2	H1	422					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

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Construction

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Pos.	PART.NAME	MATERIAL	Q.TY
3	Bracket	EN 1.4308 (ASTM CF8)	1
6	Pump shaft with coupling	EN 1.4301 (AISI 304)	1
8	Impeller	Ixel [®]	[*]
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	[*]
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**

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Construction

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Pump type	POS. 3A Join Ring	POS. 8 Impeller	POS. 9 Diffuser	POS. 37 Outer casing	POS. 61 Upper / Intermediate bracket	POS. 62 Stage housing	POS. 70 Shaft sleeve bearing	POS. 73 Thrust washer first impeller	POS. 74 Thrust washer	POS. 94 Bearing	POS. 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 17	-	17	18	1	1	18	1	-	17	1	1+3
4N4 23	-	23	23	1	1	23	1	-	23	1	-
4N4 31	1	31	31	2	2	31	2	-	31	2	3