

Technical data

Pump name OY SF6S42-4/7.5

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 SF6S42-4/7.5	Frequency	Hz 50
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type	EBARA MOTOR OIL
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 114
12	Speed	rpm 2850		Designed mm 114
13	No. of Stage	4		Min. mm 114
14	Connection	Suction side	Flow	Operating m³/h
15	Connection	Discharge side G 3"		Max- m³/h 60.1
16	Max Working Pressure	bar		Min- m³/h 14.2
17	Shut-off head	bar 5.27	Head	Operating m
18	Total weight	kg See the table of "Dimensions".		- (Qmax.) m 13.4
19	Shaft power	kW		- (Qmin.) m 50.1
20	Max. fluid temperature	°C 40	Max. Shaft Power at max. impeller	kW 6.12
21	Required pump NPSH	m	Efficiency	%

Materials

22	Impeller	PPE+PS glass fibre reinforced		
23	Casing	PPE+PS glass fibre reinforced		
24	Shaft	AISI 420		
25				
26				
27				

Motor

28	Manufacturer	EBARA MOTOR	Insulation class	F
29	Type	SF6S42-4/7.5_380_Three Phase	Phases	3~
30	Specific design	Submersible oil filled type / 50 Hz / Pole pairs 1	Frame size	6"
31	Rated power	kW 7.5	Weight	kg 42
32	Number of poles	2	Electric voltage	V 380
33	Speed	rpm 2850	Electric current	A 17.2
34	Degree of protection	IP 58		
35				

Remarks

Performance curve

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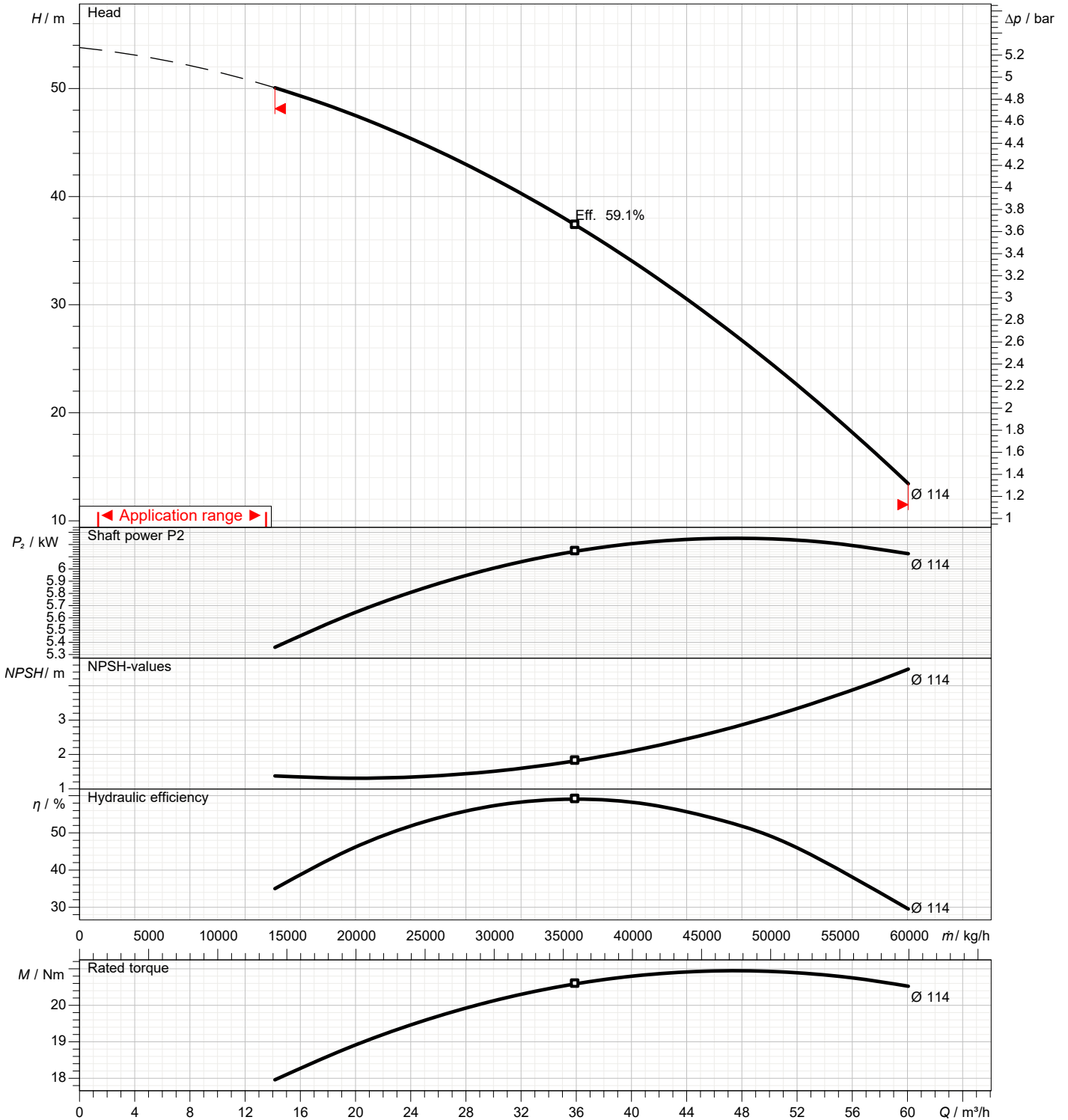
Requested data

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

Pump

Operating flow	m ³ /h		Impeller Diameter Designed	mm	114
Operating head	m		Frequency	Hz	50
			Speed	rpm	2850

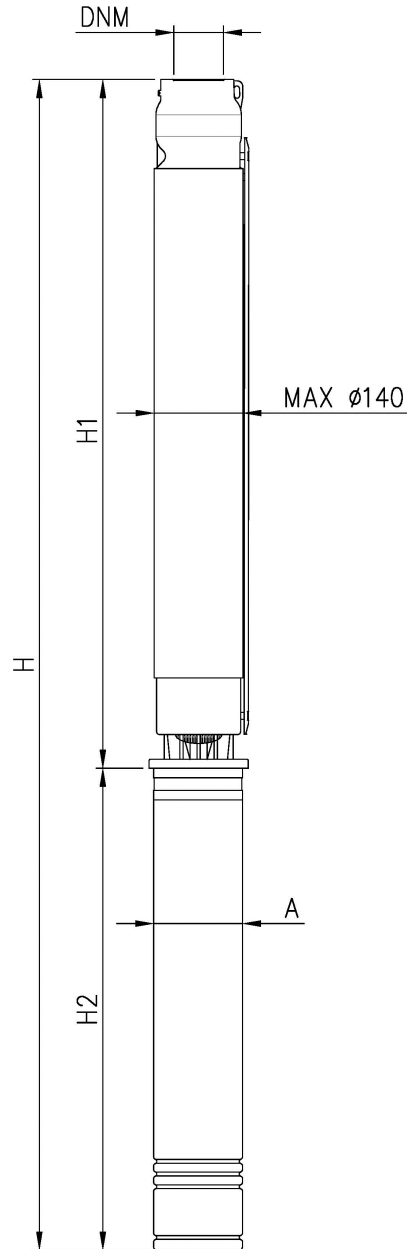
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in		mm						
1	A	140						
2	DNM	G 3"						
3	H	1128						
4	H1	528						
5	H2	600						
6	Weight P&M	52,1 kg						
7								
8								
9								
10								
11								
12								
13								
14								
15								

Dimensions

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(2/2)**Construction****Pump name OY SF6S42-4/7.5**

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N°	PART NAME	MATERIAL
1130.1	Suction casing 6"	Ni-resist D-2B - Stainless modular cast iron
1140	Upper bearing support + rubber bearing	(PPE+PS glass fibre reinforced) and NBR
1410	Diffuser	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1414	Diffuser casing	EN 1.4301 (AISI 304)
1471	Suction disc	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1471.1	Suction disc	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1910	Lower bearing support + bronze bearing	(PPE+PS glass fibre reinforced) + bronze
2110.2	Pump shaft 6"	EN 1.4021 (AISI 420)
2250	Impeller	PPE+PS glass fibre reinforced
2420.1	Shaft sleeve	PPE+PS glass fibre reinforced
2420.2	Shaft sleeve	PPE+PS glass fibre reinforced
2420.3	Shaft sleeve	PPE+PS glass fibre reinforced
2460	Shaft sleeve	PPE+PS glass fibre reinforced
2460.1	Spacer sleeve	PPE+PS glass fibre reinforced
2910	Screw	EN 1.4301 (AISI 304)
2911	Washer	EN 1.4301 (AISI 304)
3044	Intermediate bearing support + rubber bearing	(PPE+PS glass fibre reinforced) and NBR
3411	Lower bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3412	Upper bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3420	Intermediate bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3650.1	Thrust bearing - washer	Low friction RULON W2
3650.2	Thrust bearing - plate	EN 1.4301 (AISI 304)
4511	O-Ring	NBR
6310.1	Discharge casing (G 3")	Ni-resist D-2B - Stainless modular cast iron
6310.2	Discharge casing (G 3")	Ni-resist D-2B - Stainless modular cast iron
6320	O-Ring	NBR
6330	Valve plate	EN 1.4301 (AISI 304)
6340	Valve seat	EN 1.4301 (AISI 304)
6531	Strainer	EN 1.4301 (AISI 304)
6544	Split ring	EN 1.4301 (AISI 304)
6577.1	Set screw	EN 1.4301 (AISI 304)
6577.3	Screw	EN 1.4301 (AISI 304)
7000.1	Coupling (with screw)	EN 1.4105 (AISI 430F)
7416	Screw	EN 1.4301 (AISI 304)
8210	Pump casing	EN 1.4301 (AISI 304)
8361	Cable guard	EN 1.4301 (AISI 304)
8363	Cable guard hook	EN 1.4301 (AISI 304)