

Technical data

Pump name SF6S42-6

Customer	Date2024-06-16	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project IDProject redenunit 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	°C20
3	Flowm³/h		Kin. viscosity	mm²/s1.005
4	Headm		Vapour pressure	bar0.0234
5	Geodetic headm		PH value	
6	Inlet pressure (pin)bar	0	Density	kg/m³998.3
7	Available system NPSH		Solids	Weight %0
8	Ambient temperature	°C20		

Pump

9	Pump name	SF6S42-6	Frequency	Hz	50
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type		without motor
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm114
12	Speedrpm	2850		Designed	mm114
13	No. of Stage	6		Min.	mm114
14	ConnectionSuction side		Flow	Operating	m³/h
15	ConnectionDischarge side	G 3"		Max-	m³/h60.1
16	Max Working Pressure	bar		Min-	m³/h14.2
17	Shut-off head	bar7.73	Head	Operating	m
18	Total weight	kgSee the table of "Dimensions".		- (Qmax.)	m20.4
19	Shaft power	kW		- (Qmin.)	m74.2
20	Max. fluid temperature	°C40	Max. Shaft Power at max. impeller	kW	9.19
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	without motor	Insulation class	
29	Type	without motor 3	Phases	
30	Specific design	without motor / 50 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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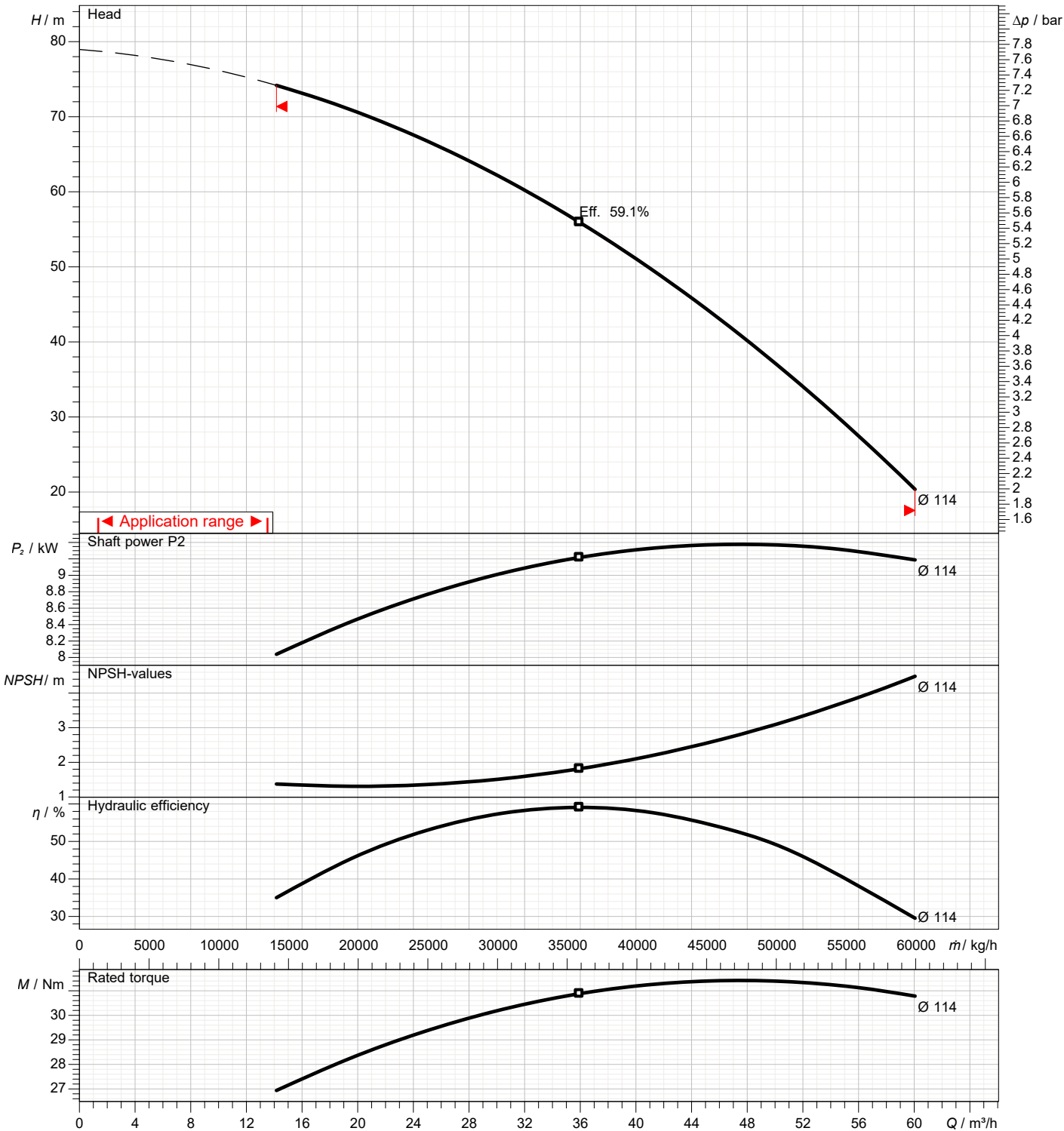
Requested data

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

Pump

Operating flow	m³/h		Impeller Diameter Designed	mm	114
Operating head	m		Frequency	Hz	50
			Speed	rpm	2850

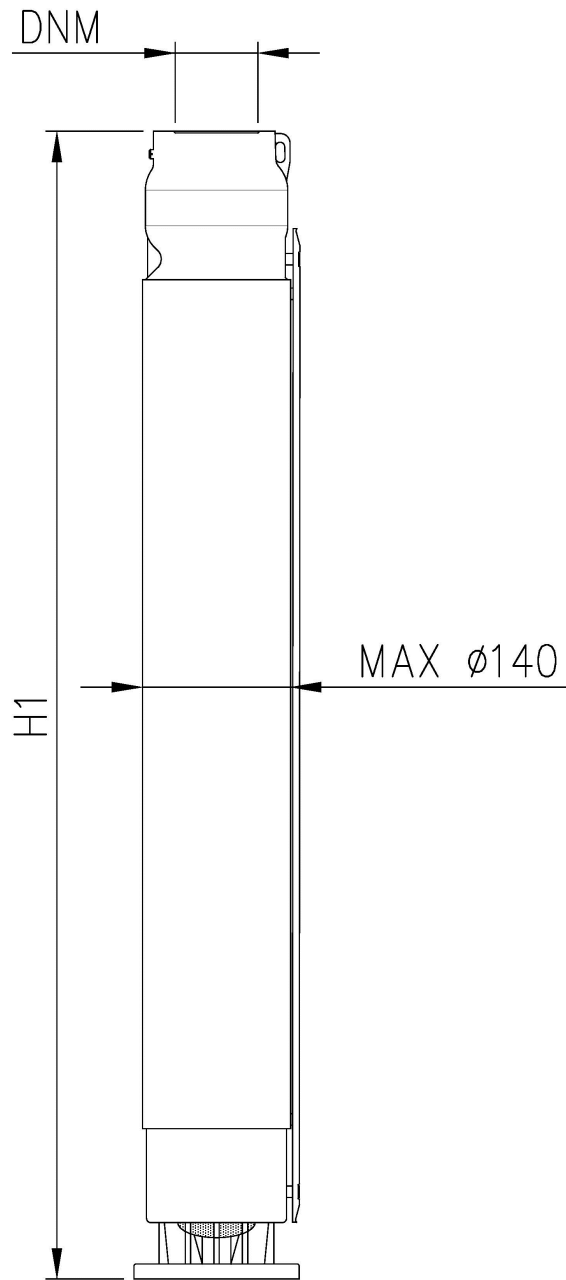
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	DNM	G 3"						
2	H1	648						
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Dimensions

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(2/2)

Construction

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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)