

Technical data

Pump name

AGC 3.00 T

Customer	Date	2021-05-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID		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	cSt 1.005
4	Head	m	Vapour pressure	kPa 2.34
5	Geodetic head	m	PH value	
6	Inlet pressure (pin)	kPa 0	Density	kg/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature	°C 20		

Pump

9	Pump name	AGC 3.00 T	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 164
12	Speed	rpm 2850		Designed mm 164
13	No. of Stage	1		Min. mm 164
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 9.6
16	Max Working Pressure	kPa 1000		Min- m³/h 0.6
17	Shut-off head	kPa 592.52	Head	Operating m
18	Total weight	kg See the table of "Dimensions".		- (Qmax.) m 32.5
19	Shaft power	kW		- (Qmin.) m 58.0
20			Max. Shaft Power at max. impeller	kW 2.08
21	Required pump NPSH	m	Efficiency	%

Materials

22	Impeller	Brass	
23	Casing	Cast iron	
24	Shaft	AISI 303 (wet extension)	
25			
26			
27			

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_AGC 3.00 T_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power	kW 2.2	Weight	kg
32	Number of poles	2	Electric voltage	V 230
33	Speed	rpm 2800	Electric current	A 8.2
34	Degree of protection	IP 44		
35				

Remarks

Performance curve

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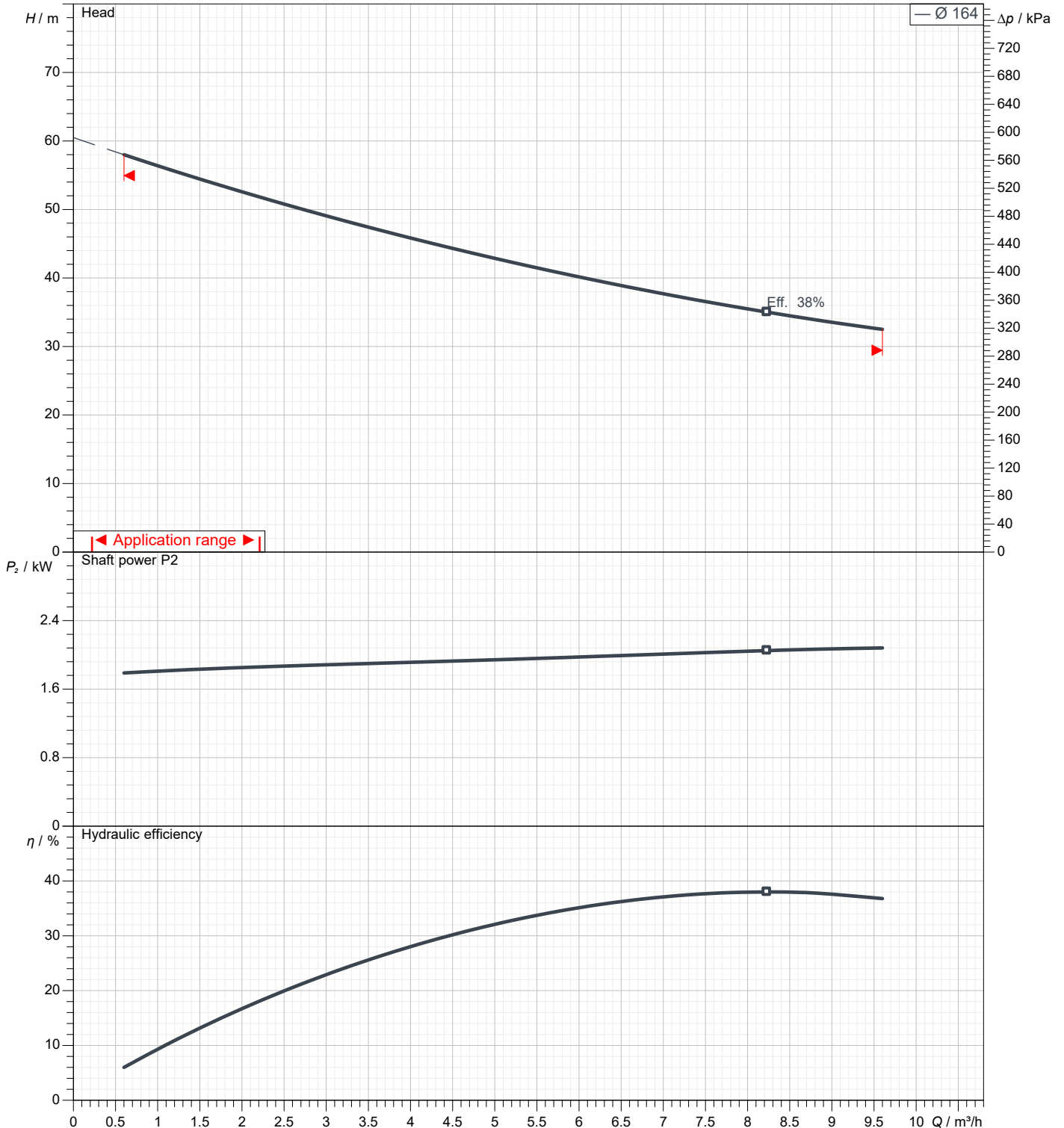
1	Flow	m ³ /h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m ³ /h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter Designed	mm	164	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

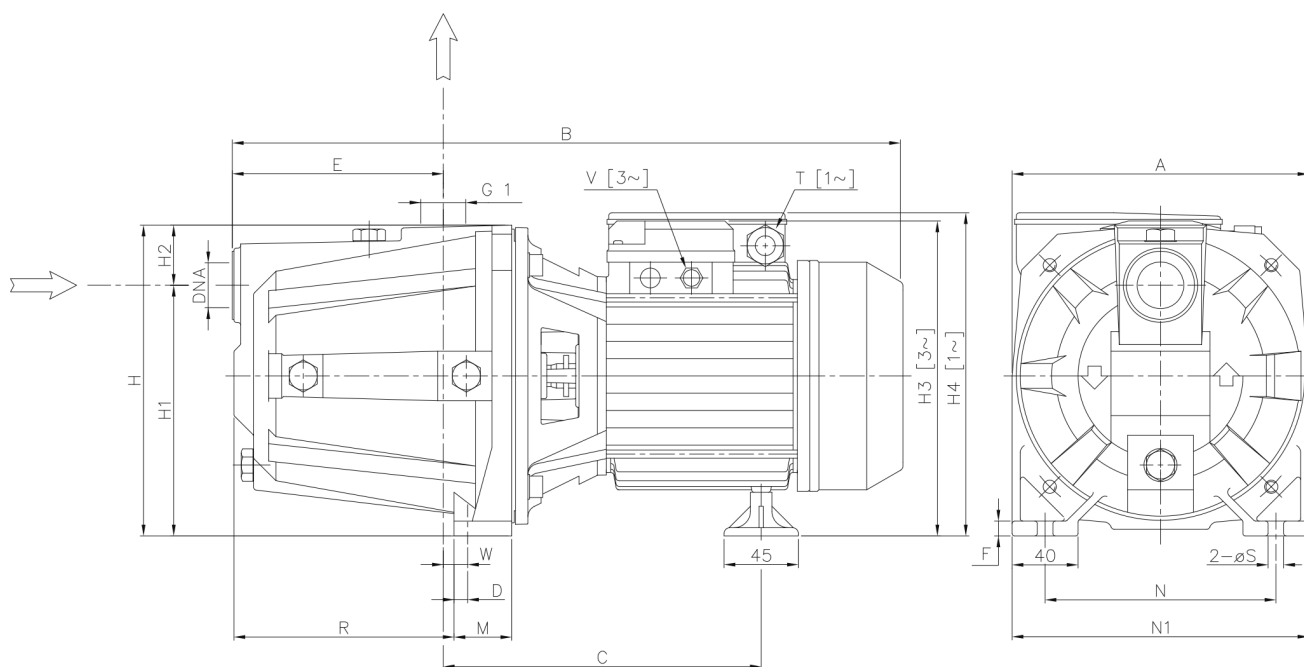
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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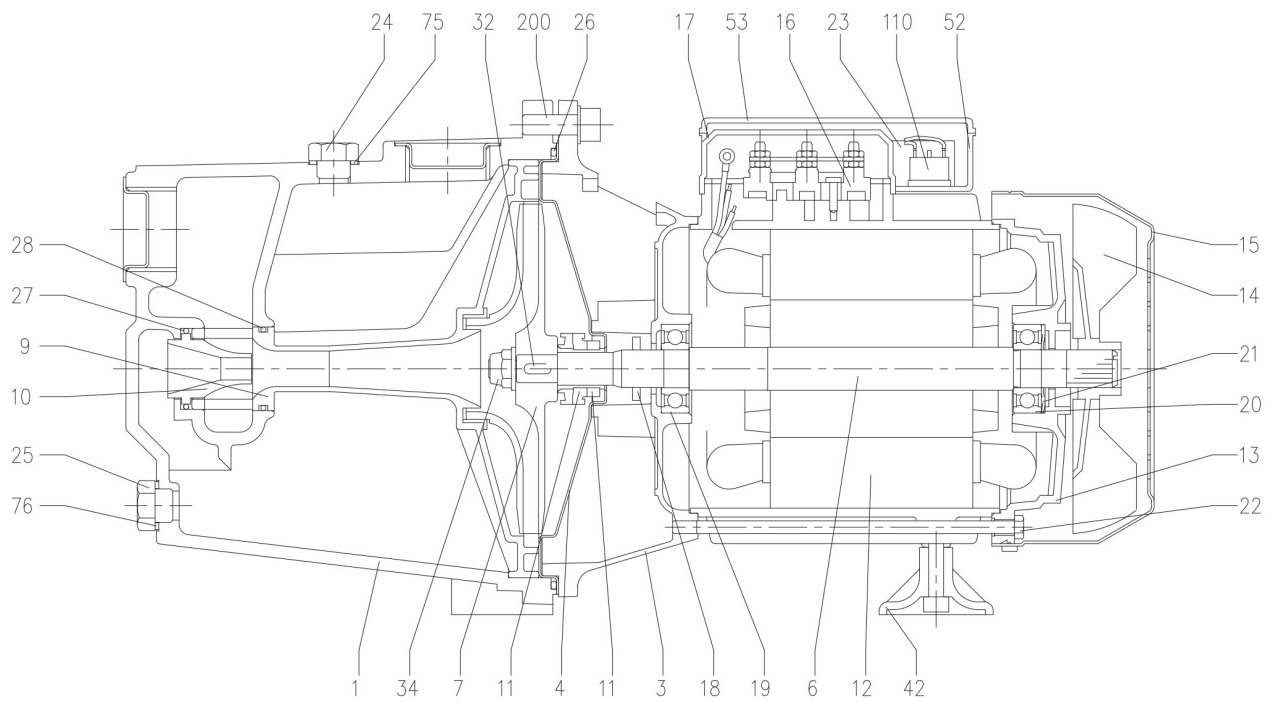
Dimensions in		mm						
1	A	220	S	9				
2	B	521	V	M20x1.5				
3	C	244	W	15.5				
4	D	10	Weight P&M	29,9 kg				
5	DNA	G 1 1/2						
6	E	157						
7	F	10						
8	H	223						
9	H1	170						
10	H2	53						
11	H3	229						
12	M	48						
13	N	175						
14	N1	220						
15	R	167.5						

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Construction

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Construction

Pump name AGC 3.00 T

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N°	PART NAME	MATERIAL	Q.TY
1	Casing	Cast iron	1
3	Motor bracket [1]	-	1
4	Casing cover [2]	AISI 304	1
6	Shaft with rotor	AISI 303 (wet extension)	1
7	Impeller [3]		1
9	Diffuser + Venturi tube	PPE+PS glass fibre reinforced	1
10	Venturi nozzle	PPE+PS glass fibre reinforced	1
11	Mechanical seal [4]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PA	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal board	-	1
17	Terminal box cover [5]	Aluminium	1
18	Splash ring	NBR	1
19	Pump side ball bearing	-	1
20	Fan side ball bearing	-	1
21	Adjusting ring	Steel C70	1
22	Tie rod	Fe 42 Zincate	4
23	Capacitor [6]	-	1
24	Priming plug	Brass	1
25	Drain plug	Brass	1
26	O-ring	NBR	1
27	O-ring	NBR	1
28	O-ring	NBR	1
32	Key	AISI 316	1
34	Impeller nut [7]	AISI 304	1
42	Foot	PP	1
52	Capacitor box [8]	ABS class V-0	1
53	Capacitor box cover [9]	ABS class V-0	1
75	Washer	Aluminium	1
76	Washer	Aluminium	1
110	Protector [8]	-	1
200	Screw	Zn Steel Cl. 8.8 ISO 898-1	4

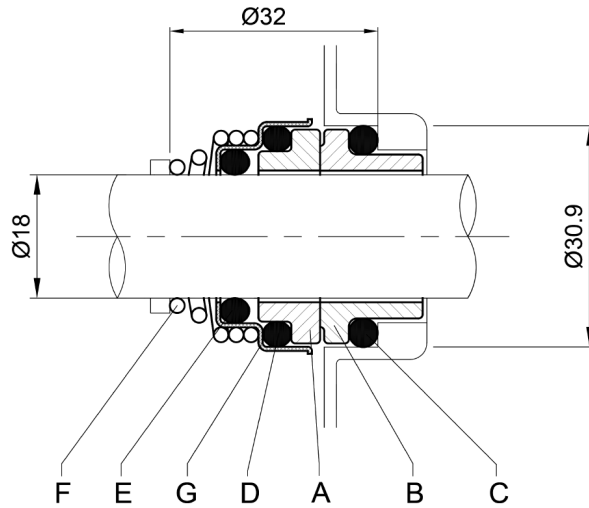
- [1] Material : Cast iron for version AGA 1.50 - AGA 2.00 - AGA 3.00 - AGC 1.50 - AGC 2.00 - AGC 3.00
Aluminium for version AGA 0.60 - AGA 0.75 - AGA 1.00
- [2] Only for version AGA 0.60 - AGA 0.75 - AGA 1.00
- [3] Material : PPE+PS glass fibre reinforced for version AGA 0.60 - AGA 0.75 - AGA 1.00
Brass for version AGA 1.50 - AGA 2.00 - AGA 3.00 - AGC 1.50 - AGC 2.00 - AGC 3.00
- [4] See **CONSTRUCTION 3**
- [5] Only for three phase
- [6] Only for single phase
- [7] Only for version with impeller in Brass
- [8] Only for version single phase AGA 1.50 - AGA 2.00 - AGC 1.50 - AGC 2.00
- [9] With gasket in NBR only for version single phase AGA 0.60 - AGA 0.75 - AGA 1.00

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REF	PART NAME	MATERIAL
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Self-driving spring	AISI 316
G	Frame	AISI 304