



EBARA

AGA
SELF-PRIMING ELECTRIC PUMPS

60 Hz



SELF-PRIMING ELECTRIC PUMPS

in cast iron



Cast iron self-priming electric pumps.

APPLICATIONS

- Domestic pressure boosting
- Small-scale garden irrigation
- Washing vehicles
- Moving clean water in general

TECHNICAL DETAILS

- Reliable
- Practical

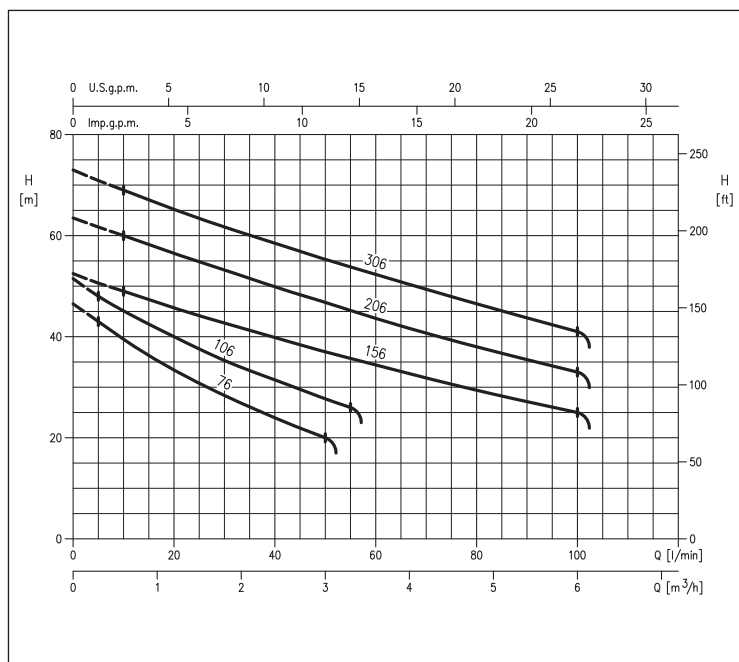
TECHNICAL DATA

- Maximum working pressure:
 - 6 bar for AGA 076 - 106
 - 10 bar for the rest of the range
- Maximum temperature of the liquid: 45°C
- Maximum suction depth: 8 m
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP44 Protection rating
- 110-115V $\pm 6\%$, 60 Hz single phase voltage
- 220-230V $\pm 6\%$, 60 Hz single phase voltage, 220/380V -6+10%, 60 Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version
- G1 suction connection for AGA 076-106, G1½ for the rest of the range
- G1 discharge connection

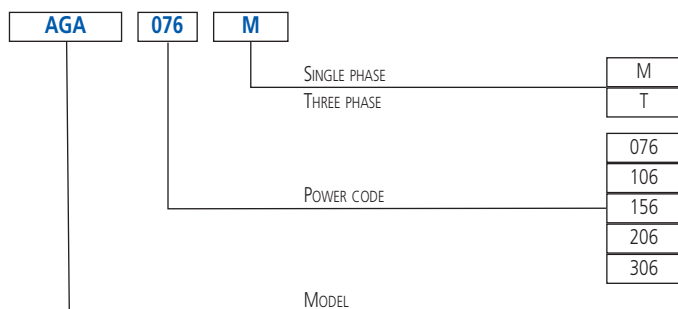
MATERIALS

- Cast iron pump body
- Seal housing disc in AISI 304 for AGA 076-106, in cast iron built-in the motor bracket for the rest of the range
- Shaft in AISI 303
- Impeller in PPE+PS reinforced with fibreglass for AGA 076-106, in brass for the rest of the range
- Mechanical seal in Carbon/Ceramic/NBR
- Ejector and diffuser in PPE+PS reinforced with fibreglass

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



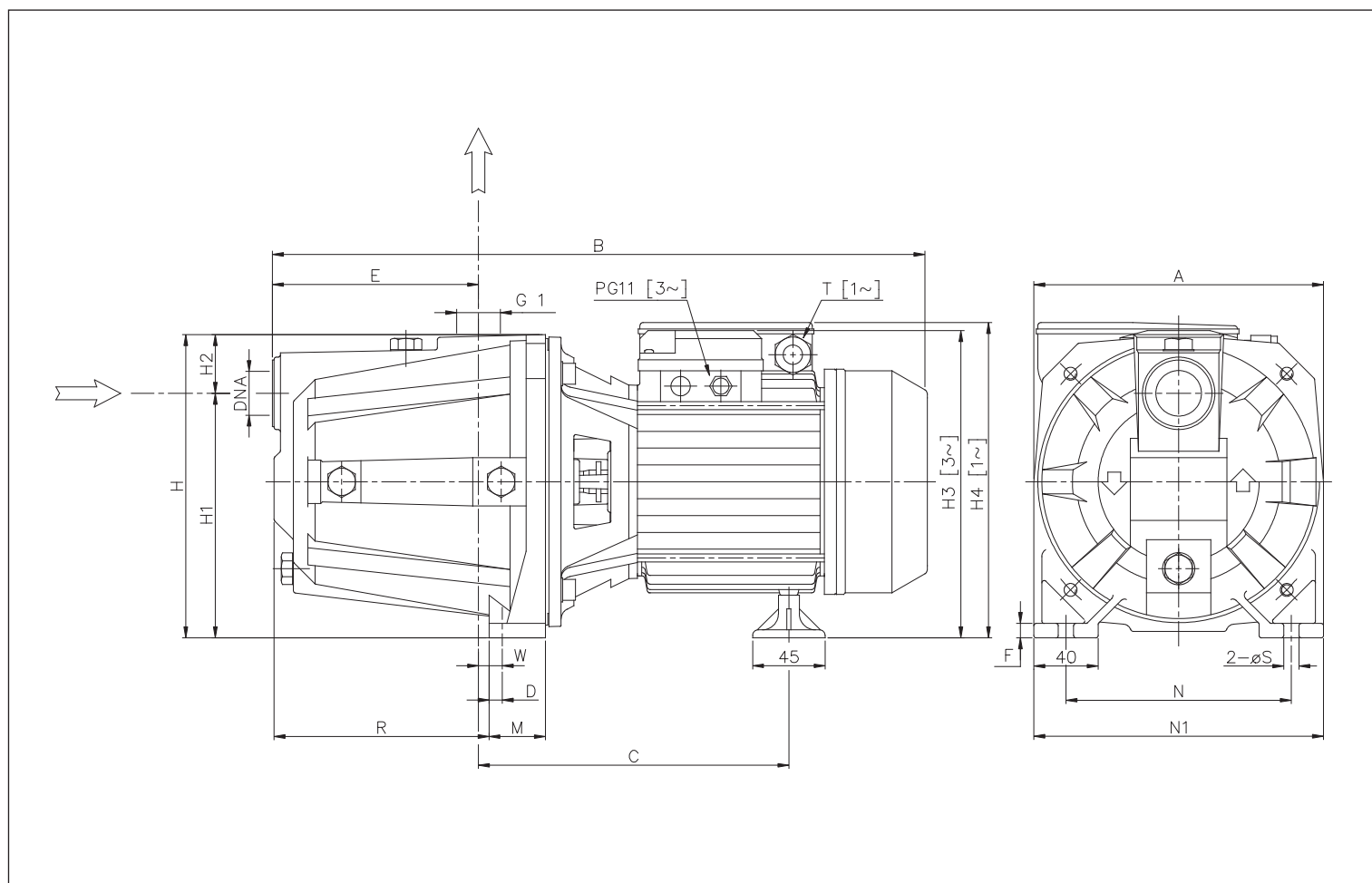
SELF-PRIMING ELECTRIC PUMPS

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PERFORMANCE TABLE

Model	Single phase	Three phase	P ₂		Q=Flow rate								
					H=Head [m]								
			[HP]	[kW]	l/min m³/h	5 0,3	10 0,6	20 1,2	30 1,8	45 2,7	50 3	55 3,3	80 4,8
AGA 076 M		AGA 076 T	0,75	0,55	43,0	39,5	33,4	28,4	21,9	20,0	-	-	-
AGA 106 M		AGA 106 T	1	0,75	48,0	45,1	40,0	35,3	29,6	27,7	26,0	-	-
AGA 156 M		AGA 156 T	1,5	1,1	-	49,0	45,7	42,7	38,4	37,0	35,7	29,4	25,0
AGA 206 M		AGA 206 T	2	1,5	-	60,0	56,5	53,2	48,3	46,8	45,2	38,0	33,0
-		AGA 306 T	3	2,2	-	69,0	65,2	61,7	56,9	55,3	53,8	46,5	41,0

DIMENSIONS



DIMENSIONS TABLE

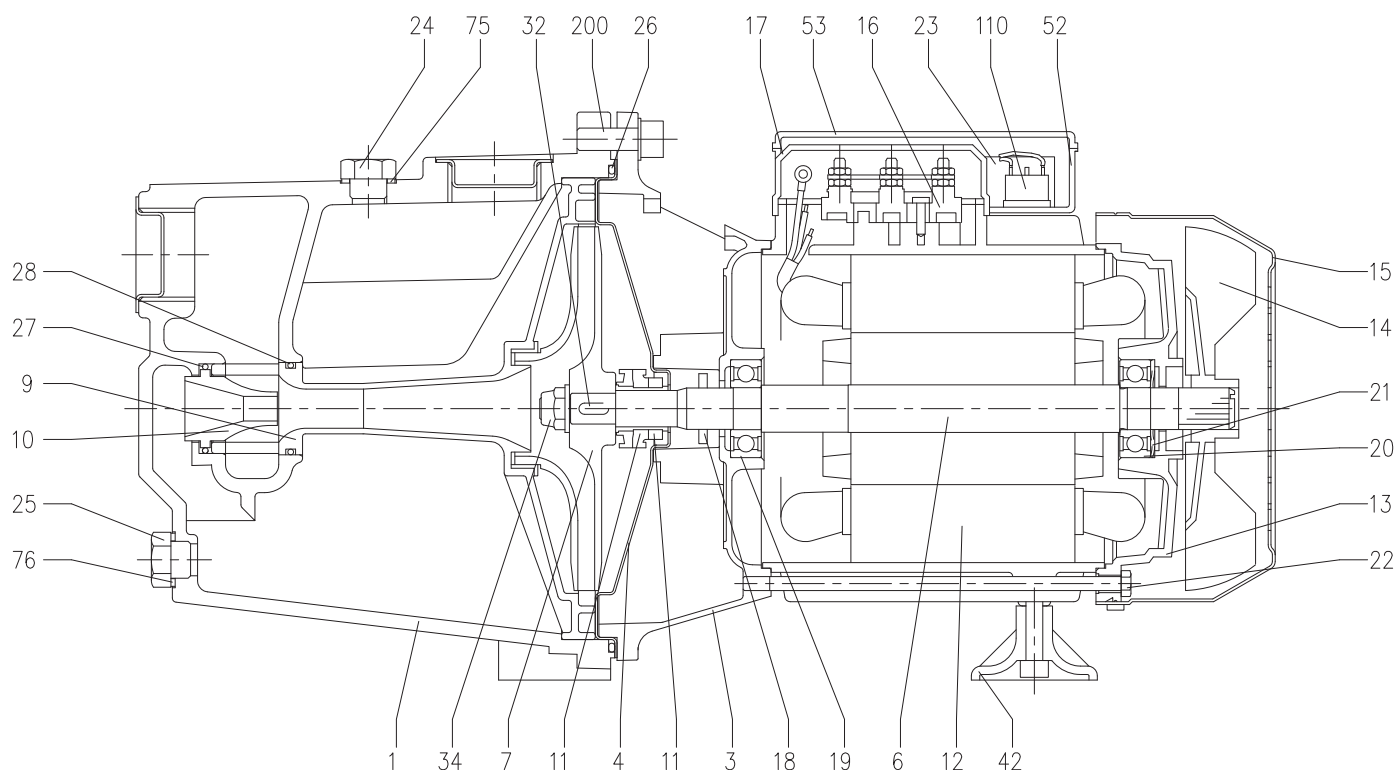
Model	Dimensions [mm]																			Weight [kg]
	A	B	C	D	E	F	H	H1	H2	H3 [1]	H4 [2]	M	N	N1	R	T [2]	W	S	DNA	
AGA 076 M	180	405	195	10,3	127	9	185	152	33	-	199	40	140	180	128,5	PG11	11,8	9,5	G 1	12,5
AGA 076 T	180	405	195	10,3	127	9	185	152	33	197,5	-	40	140	180	128,5	-	11,8	9,5	G 1	12,5
AGA 106 M	180	405	195	10,3	127	9	185	152	33	-	199	40	140	180	128,5	PG11	11,8	9,5	G 1	13,8
AGA 106 T	180	405	195	10,3	127	9	185	152	33	197,5	-	40	140	180	128,5	-	11,8	9,5	G 1	13,8
AGA 156 M	220	495	244	10	157	10	223	170	53	-	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	25,5
AGA 156 T	220	495	244	10	157	10	223	170	53	229	-	48	180	220	167,5	-	15,5	9	G 1½	25,5
AGA 206 M	220	521	244	10	157	10	223	170	53	-	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	26,6
AGA 206 T	220	495	244	10	157	10	223	170	53	229	-	48	180	220	167,5	-	15,5	9	G 1½	27,6
AGA 306 T	220	508	244	10	157	10	223	170	53	229	-	48	180	220	167,5	-	15,5	9	G 1½	27,7

[1]= Three phase only
[2]= Single phase only

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SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	21	Adjusting ring	Steel C70
3	Motor support	[7]	22	Tie-rod	Galvanised Fe 42
4	Seal housing disc	AISI 304 [6]	23	Capacitor [2]	-
6	Shaft	AISI 303	24	Filler cap	Brass
7	Impeller	[4]	25	Drain plug	Brass
9	Diffuser + Venturi tube	PPE+PS reinforced with fibreglass	26	O-Ring	NBR
10	Venturi Nozzle	PPE+PS reinforced with fibreglass	27	O-Ring	NBR
11	Mechanical seal	Carbon/Ceramic/NBR	28	O-Ring	NBR
12	Motor casing with stator	-	32	Key	AISI 316
13	Motor cover	Aluminium	34	Impeller nut [3]	AISI 304
14	Fan	PA6	42	Foot	PP
15	Fan cover	Galvanised Fe P04	52	Capacitor box [2]	ABS
16	Terminal box	-	53	Capacitor box cover [2] [8]	ABS
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
18	Spray protector ring	NBR	76	Washer	Aluminium
19	Bearing (pump side)	-	110	Motorprotector [5]	-
20	Bearing (motor side)	-	200	Screw (pump body)	Zn Steel Cl. 8.8 ISO 898-1

[1]= For three phase only

[2]= For single phase only

[3]= For the version with brass impeller only

[4]= PPE+PS reinforced with fibreglass for AGA 076 - 106, brass for AGA 156 - 206 - 306

[5]= For single phase AGA 156 - 206 versions only

[6]= For AGA 076 - 106 only

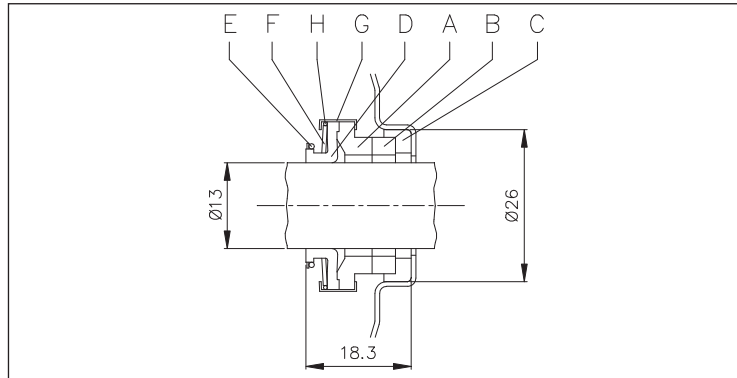
[7]= Cast iron for AGA 156 - 206 - 306, aluminium for AGA 076 - 106

[8]= With gasket in NBR for single phase AGA 106 version only

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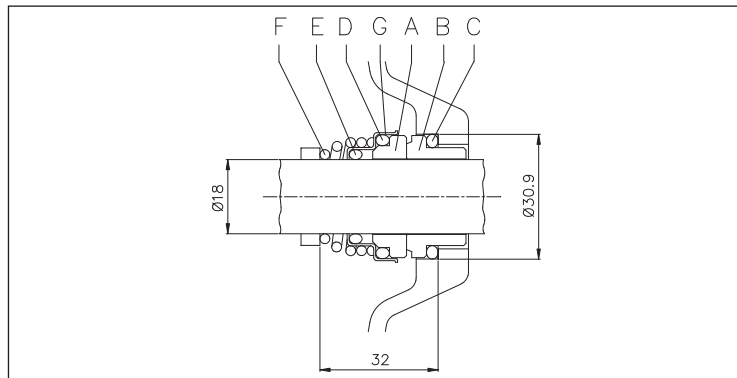
MECHANICAL SEAL for AGA 076 - 106



MATERIALS TABLE for AGA 076 - 106

Ref.	Name	Material
A	Rotating part	Carbon
B	Fixed part	Ceramic
C	Gasket	NBR
D	Bellows	NBR
E	Ring	AISI 304
F	Spring	AISI 304
G	Structure/frame	AISI 304
H	Retainer ring	AISI 304

MECHANICAL SEAL for AGA 156 - 206 - 306



MATERIALS TABLE for AGA 156 - 206 - 306

Ref.	Name	Material
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

ELECTRIC DATA TABLE

Model		P ₂		Capacitor				P ₁		Absorbed Current [A]			
Single phase	Three phase	[HP]	[kW]	Single-phase				Single-phase	Three-phase	[A]			
				110-115V µF	V _c	220-230V µF	V _c	[kW]	[kW]	Single-phase 110-115V	220-230V	220V	Three-phase 380V
AGA 076 M	AGA 076 T	0,75	0,55	60	250	16	450	0,94	0,9	9,5	4,3	2,8	1,6
AGA 106 M	AGA 106 T	1	0,75	60	250	20	450	1,1	1	11,4	5,5	2,9	1,7
AGA 156 M	AGA 156 T	1,5	1,1	100	250	35	450	1,65	2	17,1	8,0	5,7	3,3
AGA 206 M	AGA 206 T	2	1,5	-	-	35	450	2,1	2	-	11,0	5,7	3,3
-	AGA 306 T	3	2,2	-	-	-	-	-	2,9	-	-	8,1	4,7

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