



LENNTECH
WATER TREATMENT SOLUTIONS

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SPECIFICATIONS

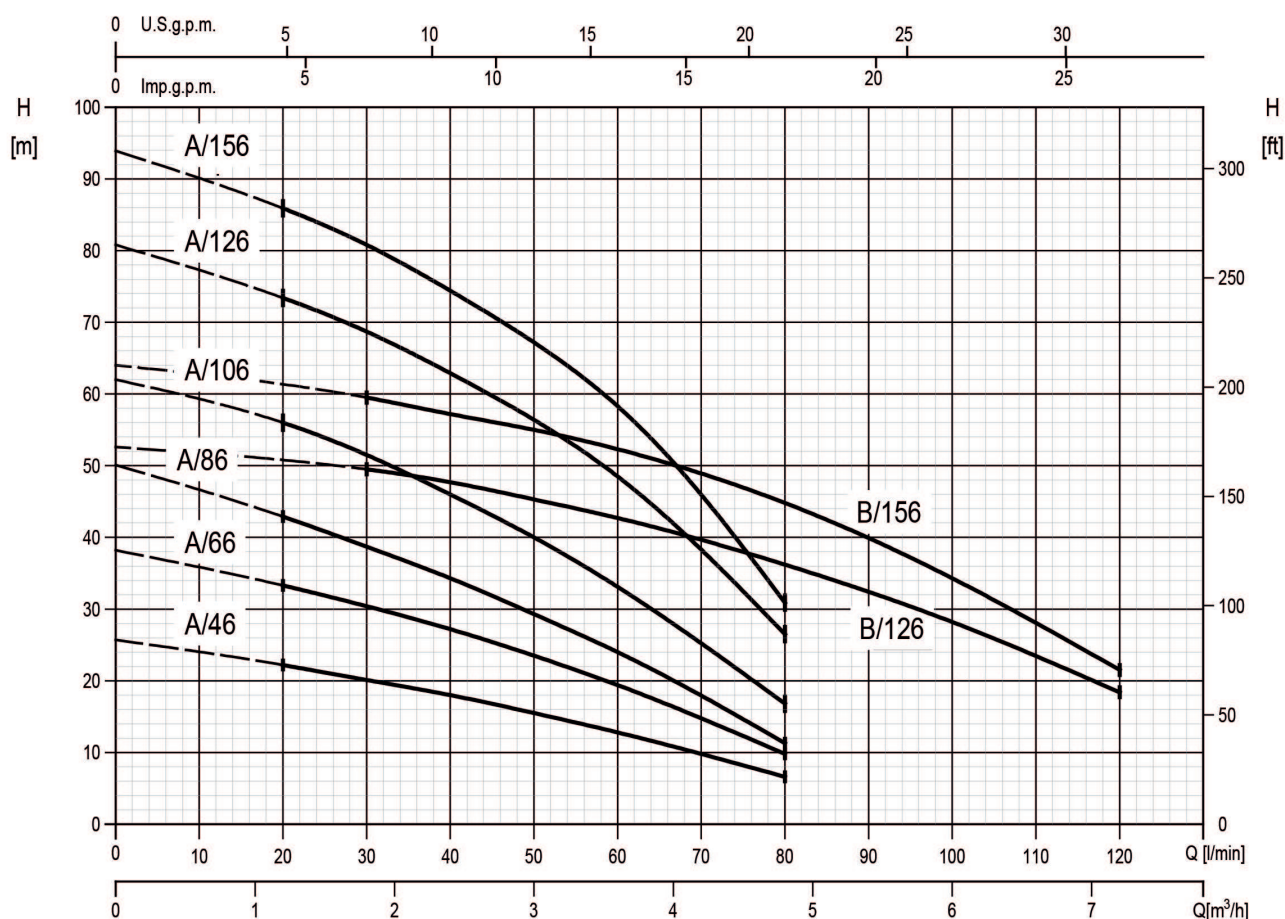
60Hz

Rev. C

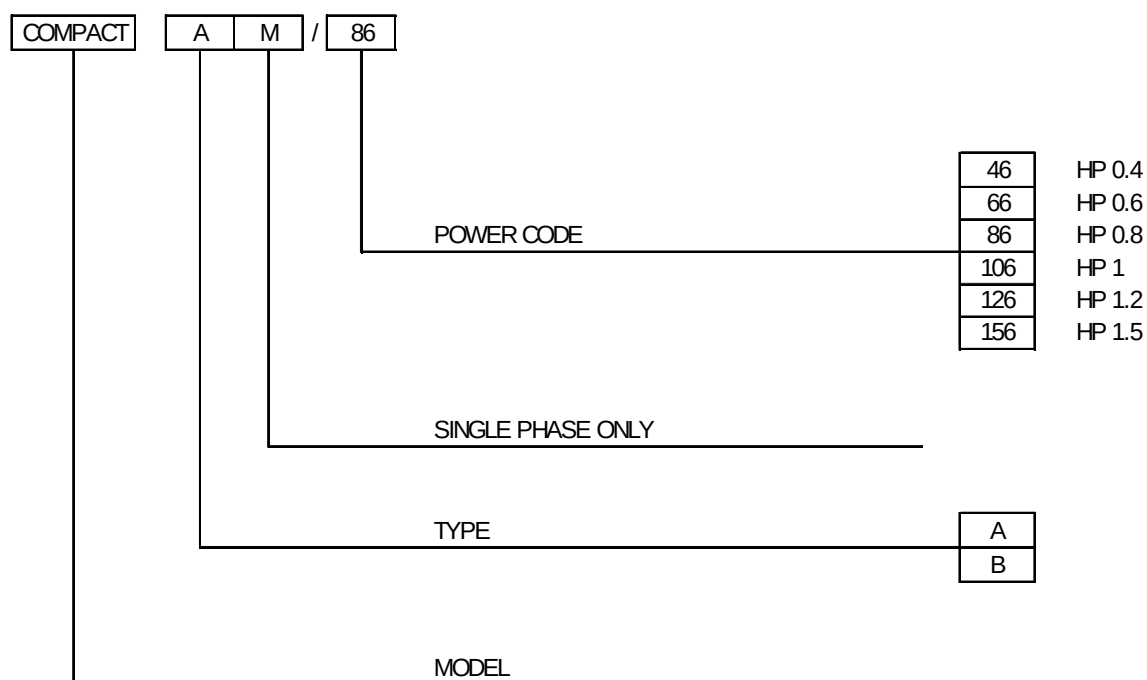
PUMP		
Liquid Handled	Type of liquid	Clean water
	Temperature [°C]	min. +5 max. +40
Maximum working pressure [MPa]		1
Construction	Impeller	Closed centrifugal
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction	G 1" (Compact A version) UNI ISO 228
		G 1 1/4" (Compact B version) UNI ISO 228
	Discharge	G 1" (All version) UNI ISO 228
Material	Casing	Cast iron
	Impeller	PPE+PS glass fibre reinforced
	Shaft seal	Ceramic/Carbon/NBR
	External pump casing	AISI 304
	Shaft	AISI 416
	Stages	PPE+PS glass fibre reinforced/PTFE
	Diffuser	PPE+PS glass fibre reinforced
	Bracket	Cast iron
Applicable standard of test		ISO 9906:2012 - Grade 3B

MOTOR		
Type	Electric - TEFC	
	Single Phase	Three Phase
Efficiency level (Reg. 640/2009)	-	- from 0.3 kW up to 0.6 kW IE3* from 0.75 kW up to 1.1 kW
No. of Poles	2	
Rotation speed [min ⁻¹]	≈ 3400	
Insulation Class	F	
Protection degree	IP 44	
Power rating	[kW]	0.3 ÷ 1.1
	[HP]	0.4 ÷ 1.5
Frequency [Hz]	60	
Voltage [V]	220 - 230 ±6%	220/380 -6%+10% (from 0.3 kW up to 1.1 kW)
		220/380-460 ±10% (IE3* from 0.75 kW up to 1.1 kW)
Capacitor	Built in	-
Over load protection	Built in	Provided by the user
Casing material	Aluminium	
Base material/motor support	Cast iron	
Dimensions of cable entry	PG11 - M16x1.5 (see dimensions table page 400)	

* only for 460 V

PERFORMANCE RANGE**SELECTION CHART**

Pump type		Power		Q=Capacity									
				l/min	0	20	30	40	50	60	80	100	120
Single Phase	Three Phase	[kW]	[HP]	m³/h	0	1.2	1.8	2.4	3.0	3.6	4.8	6.0	7.2
				H=Total manometric head in meters									
COMPACT AM/46	COMPACT A/46	0.3	0.4	25.7	22.2	20.1	18	15.5	12.8	6.6	-	-	
COMPACT AM/66	COMPACT A/66	0.44	0.6	38.2	33.3	30.4	27.2	23.5	19.4	9.8	-	-	
COMPACT AM/86	COMPACT A/86	0.6	0.8	50	43	38.7	34.3	29.3	24	11.3	-	-	
COMPACT AM/106	COMPACT A/106	0.75	1	62	56	51.5	46	40	33.1	16.8	-	-	
COMPACT AM/126	COMPACT A/126	0.9	1.2	81	73.5	68.5	63	56.5	48.5	26.5	-	-	
COMPACT AM/156	COMPACT A/156	1.1	1.5	94	86	81	74.5	67	58.5	30.9	-	-	
COMPACT BM/126	COMPACT B/126	0.9	1.2	52.5	-	49.5	47.5	45.5	42.5	36.2	28.2	18.4	
COMPACT BM/156	COMPACT B/156	1.1	1.5	64	-	59.5	57	55	52.5	45	34.3	21.5	

TYPE KEY**CURVES SPECIFICATIONS**

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B

The curves refer to effective speed of asynchronous motors at 60 Hz, 2 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

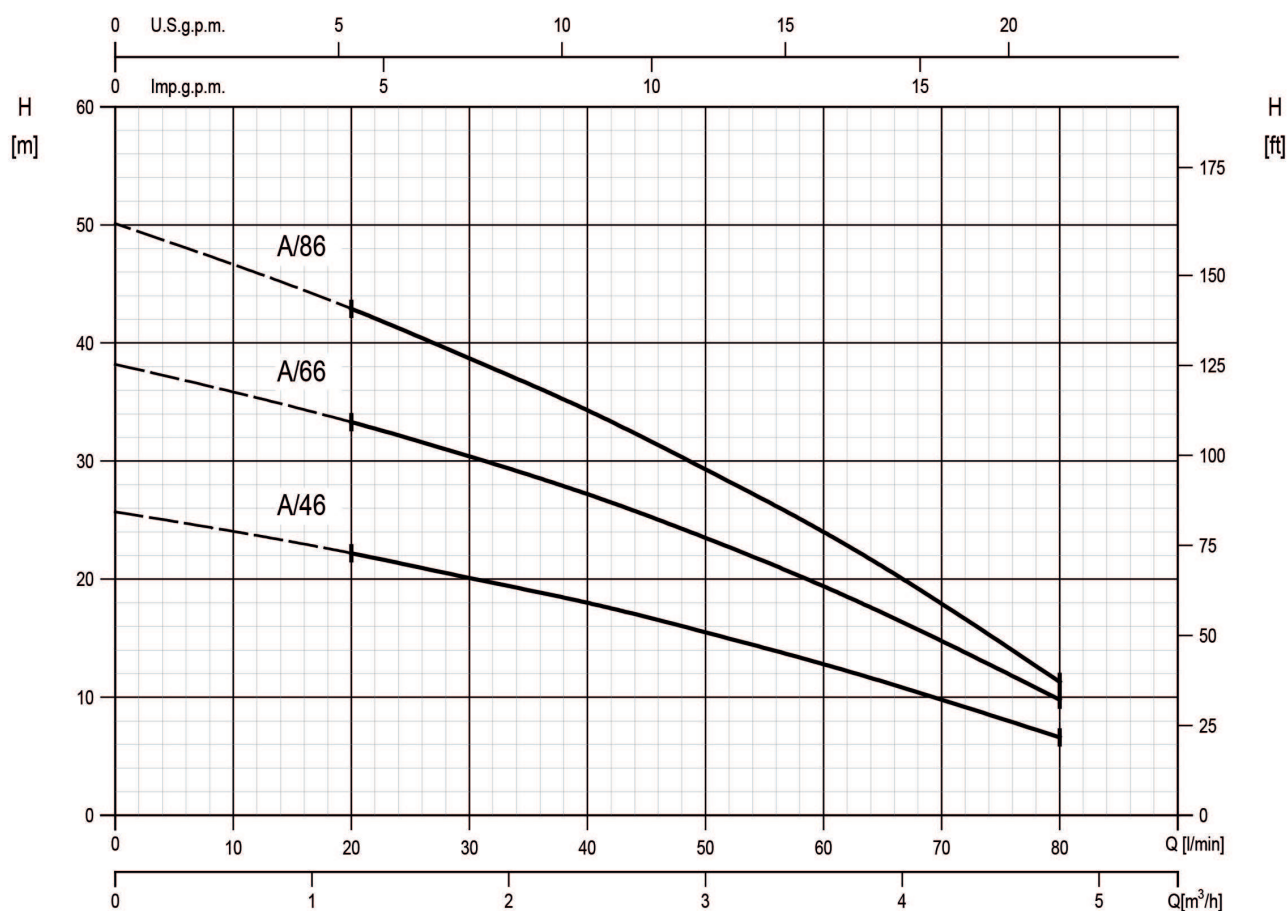
In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

H = total head

COMPACT A/46 (0.3 kW) - Impeller diameter = 90 mm
 COMPACT A/66 (0.44 kW) - Impeller diameter = 90 mm
 COMPACT A/86 (0.6 kW) - Impeller diameter = 90 mm

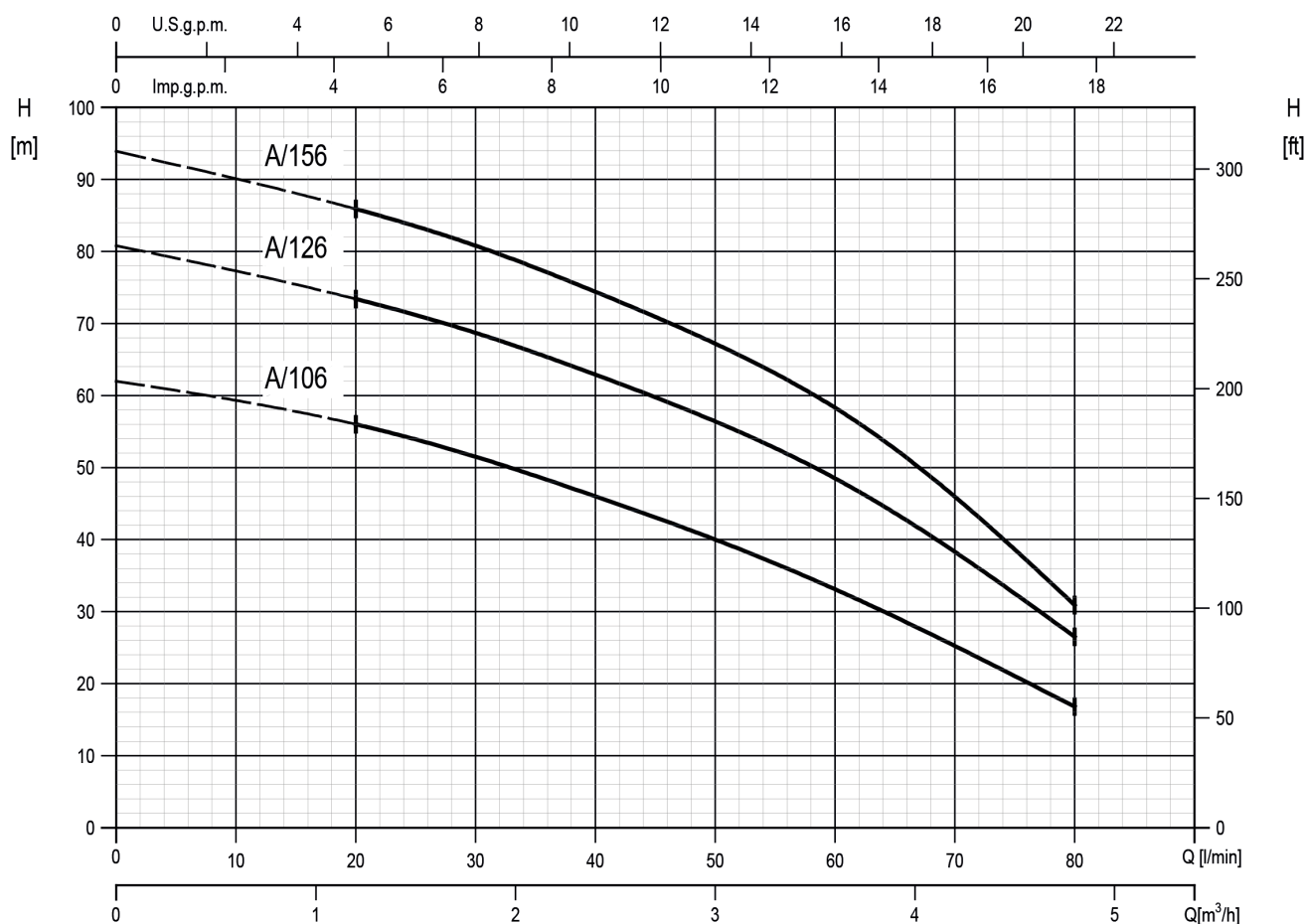


Rotation speed $\approx 3400 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

COMPACT A/106 (0.75 kW) - Impeller diameter = 90 mm

COMPACT A/126 (0.9 kW) - Impeller diameter = 90 mm

COMPACT A/156 (1.1 kW) - Impeller diameter = 90 mm

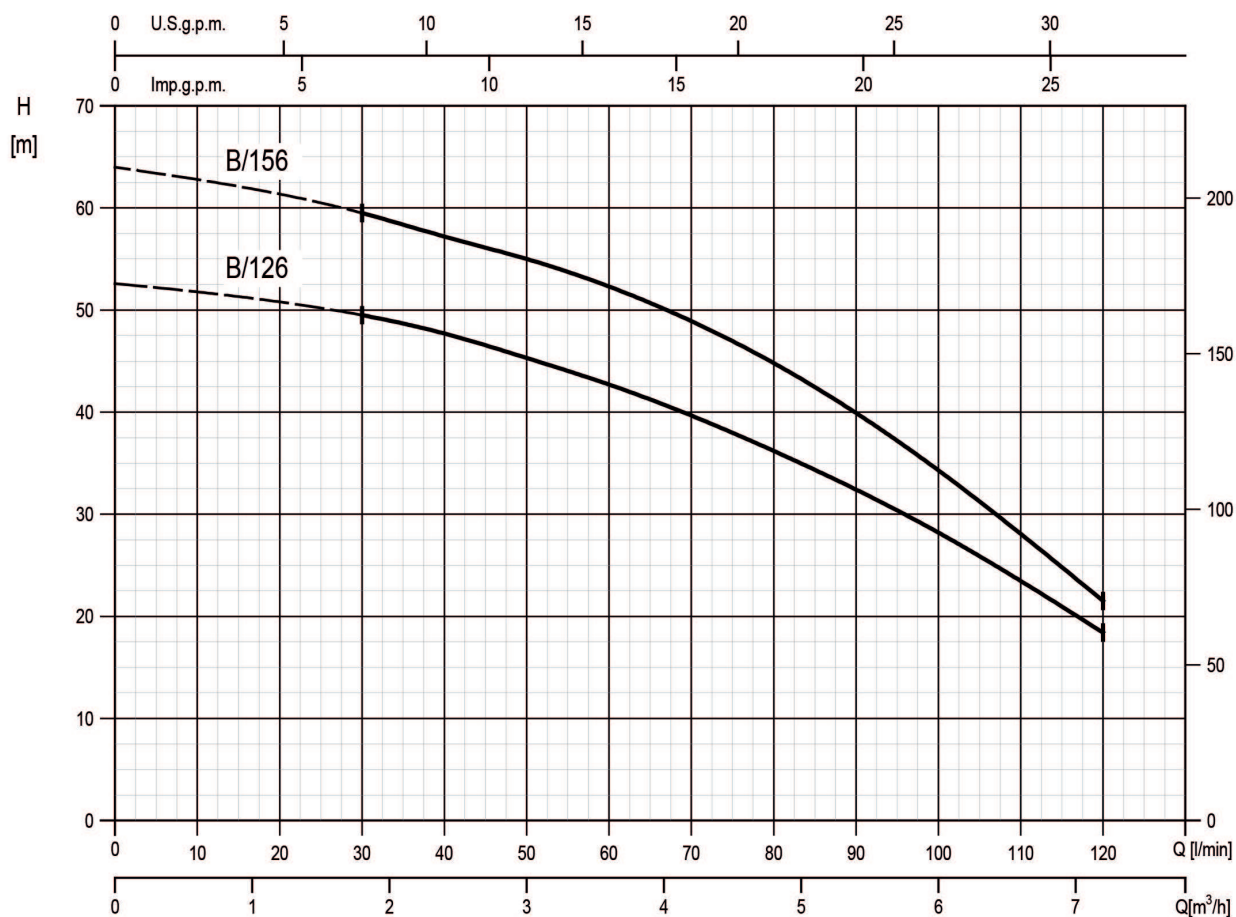


Rotation speed $\approx 3400 \text{ min}^{-1}$

Test standard: ISO 9906:2012 - Grade 3B

COMPACT B/126 (0.9 kW) - Impeller diameter = 88 mm

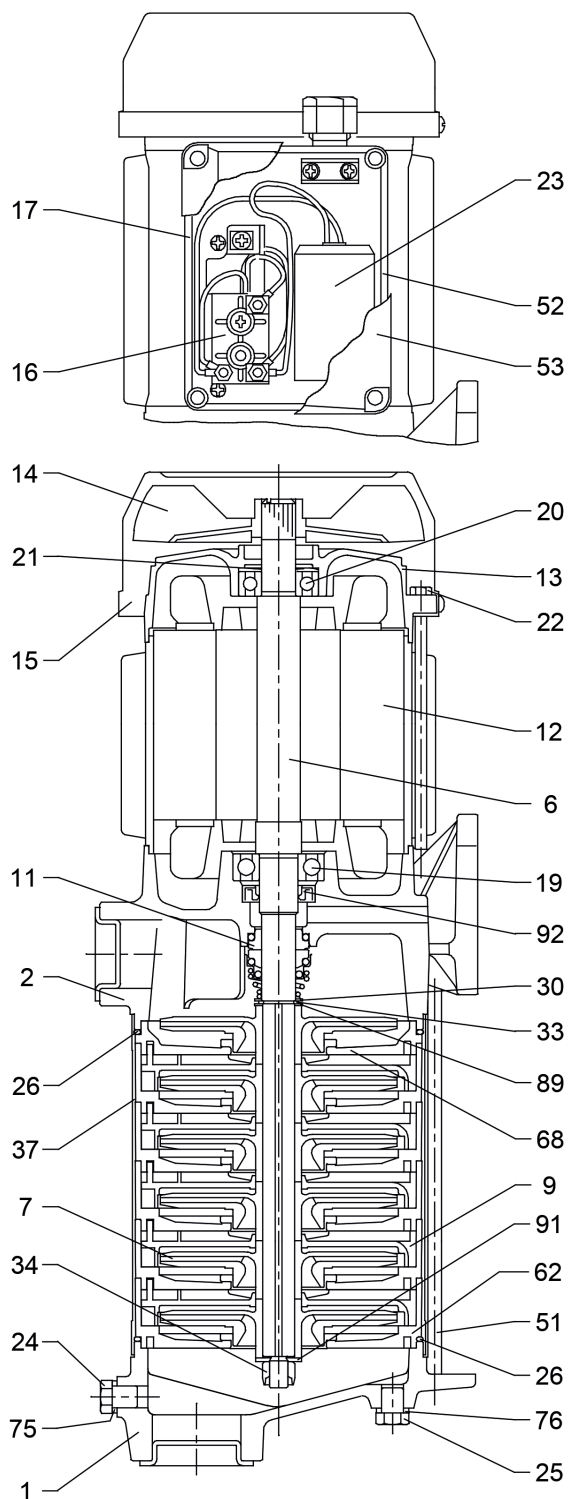
COMPACT B/156 (1.1 kW) - Impeller diameter = 88 mm



Rotation speed $\approx 3400 \text{ min}^{-1}$

Test standard: ISO 9906:2012 - Grade 3B

SECTIONAL VIEW DRAWING



SECTIONAL VIEW TABLE

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Suction casing	Cast iron EN-GJL-200-EN 1561	-	-	1
2	Delivery casing	Cast iron EN-GJL-200-EN 1561	-	-	1
6	Shaft with rotor	EN 14005 (AISI 416)	-	-	1
7	Impeller	PPE+PS fiber glass reinforced	-	-	[1]
9	Diffuser	PPE+PS fiber glass reinforced	-	-	[1]
11	Mechanical seal [2]	Carbon / Ceramic / NBR	-	-	1
12	Motor frame with stator	-	-	-	1
13	Motor cover	Aluminium	-	-	1
14	Fan	PA6	-	-	1
15	Fan cover	Galvanized Fe P04	-	-	1
16	Terminal board	-	-	-	1
17	Terminal box cover [3]	Aluminium	-	-	1
19	Pump side ball bearing	-	[4]	-	1
20	Fan side ball bearing	-	[4]	-	1
21	Adjusting ring	Steel C70	-	-	1
22	Motor tie rod	Galvanized Fe 42	M 5xL	EBARA DRAWING	4
23	Capacitor [5]	-	-	-	1
24	Priming plug	OT 58 UNI 5705	G 1/8"	UNI ISO 228	1
25	Drain plug	OT 58 UNI 5705	G 1/8"	UNI ISO 228	1
26	O-ring	NBR	120x3	-	2
30	Washer	EN 14301(AISI 304)	12x21x1 - [UP to 0,6kW]	EBARA DRAWING	1
			15x22x1 - [0,75 kW and above]		
33	Seeger ring	EN 14021(AISI 420)	12	UNI 7435	1
		EN 14301(AISI 304)	14	JIS B 2804-1978	
34	Impeller nut	EN 14301(AISI 304)	M 8x1 - [UP to 0,6kW]	UNI 7474	1
			M 10x1,25 - [0,75 kW and above]		
37	External pump casing	EN 14301(AISI 304)	-	-	1
51	Tie rod	Galvanized Fe P04	M 6xL	EBARA DRAWING	4
52	Capacitor box [5]	PP class V-0	-	-	1
53	Capacitor box cover [5]	PP class V-0	-	-	1
62	Stage housing	PPE+PS fiber glass reinforced/PTFE	-	-	[1]
68	Stage	PPE+PS fiber glass reinforced/PTFE	-	-	1
75	Washer	Aluminium	10x16x1,5	EBARA DRAWING	1
76	Washer	Aluminium	10x16x1,5	EBARA DRAWING	1
89	Washer	EN 14301(AISI 304)	12x21x1 - [UP to 0,6kW]	EBARA DRAWING	1
			14,1x22x1 - [0,75 kW and above]		
91	Washer	EN 14301(AISI 304)	8,4x17x1,6 - [UP to 0,6kW]	UNI EN ISO 7089	1
			10,2x20x2,5 - [0,75 kW and above]	EBARA DRAWING	
92	Lip seal	NBR	12x24x4	EBARA DRAWING	1
			17x32x6		

[1] See **QUANTITY FOR MODEL** page 302[2] See **MECHANICAL SEAL** page 303

[3] Only for three phase

[4] See **BEARINGS** page 302

[5] Only for single phase

QUANTITY FOR MODEL

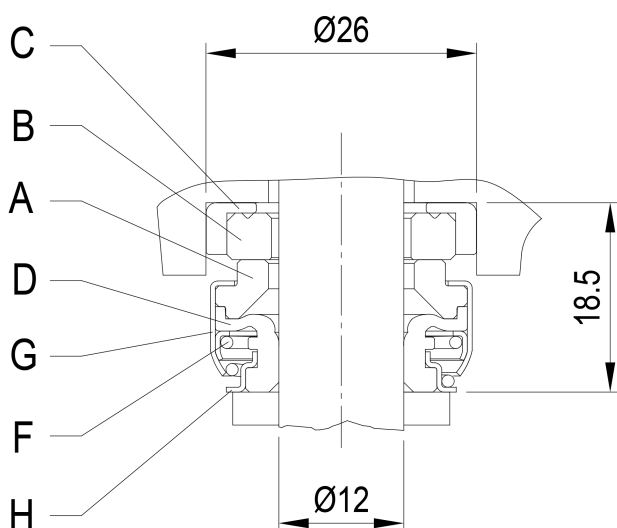
Pump type	N°7 Impeller	N°9 Diffuser	N°62 Stage housing
COMPACT A/46	2	1	1
COMPACT A/66	3	2	2
COMPACT A/86	4	3	3
COMPACT A/106	5	4	4
COMPACT A/126	6	5	5
COMPACT A/156	7	6	6
COMPACT B/126	4	3	3
COMPACT B/156	5	4	4

BEARINGS

Pump type		Ball Bearing			
Single Phase	Three Phase	Pump side		Fan side	
			IE3		IE3
COMPACT AM/46	COMPACT A/46	6201 2RSH	-	6201 2RSH	-
COMPACT AM/66	COMPACT A/66	6201 2RSH	-	6201 2RSH	-
COMPACT AM/86	COMPACT A/86	6201 2RSH	-	6201 2RSH	-
COMPACT AM/106	COMPACT A/106	6203 2RSH	6203-ZZ C3	6202 2RSH	6202-ZZ C3
COMPACT AM/126	COMPACT B/126	6203 2RSH	6203-ZZ C3	6202 2RSH	6202-ZZ C3
COMPACT AM/156	COMPACT B/156	6203 2RSH	6203-ZZ C3	6202 2RSH	6202-ZZ C3
COMPACT BM/126	COMPACT B/126	6203 2RSH	6203-ZZ C3	6202 2RSH	6202-ZZ C3
COMPACT BM/156	COMPACT B/156	6203 2RSH	6203-ZZ C3	6202 2RSH	6202-ZZ C3

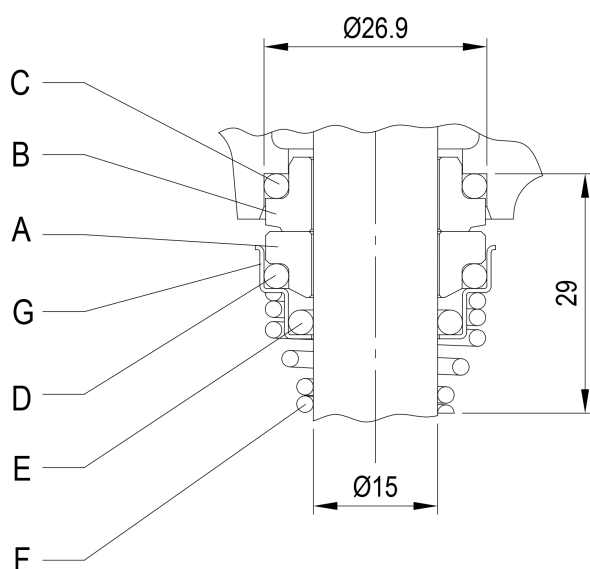
MECHANICAL SEAL

UP TO 0.6 kW



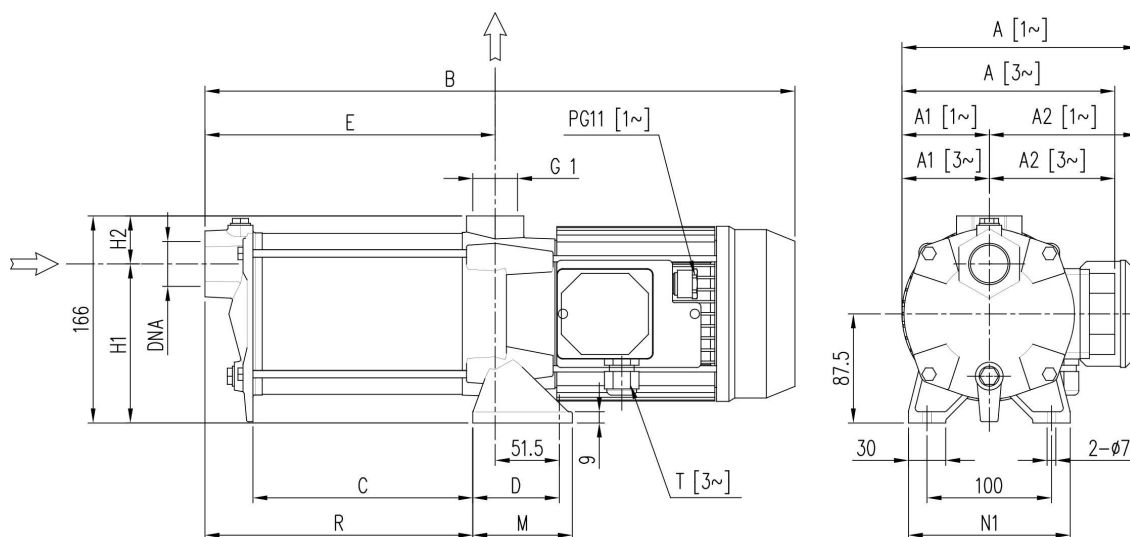
REF	PART NAME	MATERIAL Standard version
A	Rotary seal ring	Carbon Graphite
B	Stationary seal ring	Ceramic
C	Gasket	NBR
D	Bellows	NBR
F	Self driving spring	AISI 304
G	Frame	AISI 304
H	Retainer ring	AISI 304

0.75 kW AND ABOVE



REF	PART NAME	MATERIAL Standard version
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

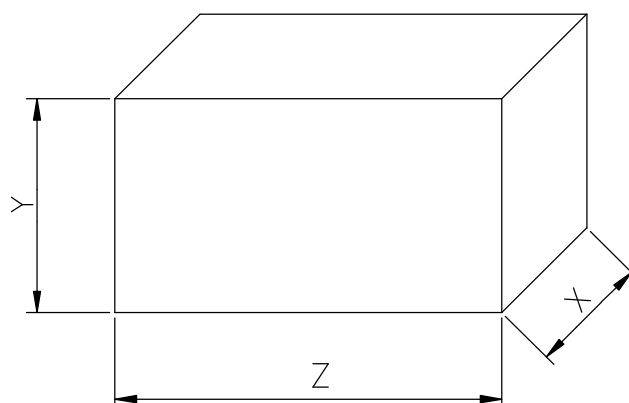
PUMP



Pump type		Dimensions mm																				Weight		
Single phase	Three phase	A		A1	A2		B		C	D	E	H1	H2	M	N1	R	T	DNA	[1~]	[kgf]	[3~]			
		[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]							
		IE3																				IE3		
COMPACT AM/46	COMPACT A/46	159	161	68.5	90.5	92	307.5	309.5	82	51.5	121	128	38.5	62	133	121	PG11	-	G 1"	8.4	8.4	-		
COMPACT AM/66	COMPACT A/66	159	161	68.5	90.5	92	333.5	335.5	108	51.5	147	128	38.5	62	133	147	PG11	-	G 1"	9.3	9.3	-		
COMPACT AM/86	COMPACT A/86	159	161	68.5	90.5	92	359.5	361.5	134	51.5	173	128	38.5	62	133	173	PG11	-	G 1"	10.3	10.3	-		
COMPACT AM/106	COMPACT A/106	169	171	70.2	98.8	101	426	428	142	69.5	199	128	38.5	80	130	181	PG11	M16x1.5	G 1"	14.5	14.5	14.5		
COMPACT AM/126	COMPACT A/126	169	171	70.2	98.8	101	452	466	168	69.5	225	128	38.5	80	130	207	PG11	M16x1.5	G 1"	15.5	16.3	16.3		
COMPACT AM/156	COMPACT A/156	169	171	70.2	98.8	101	490	492	194	69.5	251	128	38.5	80	130	233	PG11	M16x1.5	G 1"	16.7	16.7	16.7		
COMPACT BM/126	COMPACT B/126	169	171	70.2	98.8	101	400	414	116	69.5	173	124	42.5	80	130	155	PG11	M16x1.5	G 1 1/4"	14.9	15.7	15.7		
COMPACT BM/156	COMPACT B/156	169	171	70.2	98.8	101	438	440	142	69.5	199	124	42.5	80	130	181	PG11	M16x1.5	G 1 1/4"	15.9	15.9	15.9		

[1~] Single phase
[3~] Three phase

PACKING



Type pumps		Packing [mm]			Weight [kgf]		
Single Phase	Three Phase	X	Y	Z	[1~]	[3~]	IE3
COMPACT AM/46	COMPACT A/46	185	195	375	8.9	8.9	-
COMPACT AM/66	COMPACT A/66	185	195	375	9.8	9.8	-
COMPACT AM/86	COMPACT A/86	185	195	375	10.8	10.8	-
COMPACT AM/106	COMPACT A/106	212	201	515	15.5	15.5	15.5
COMPACT AM/126	COMPACT A/126	212	201	515	16.6	17.3	17.3
COMPACT AM/156	COMPACT A/156	212	201	515	17.7	17.9	17.9
COMPACT BM/126	COMPACT B/126	212	201	515	15.9	16.7	16.7
COMPACT BM/156	COMPACT B/156	212	201	515	16.9	16.9	16.9

[1~] Single phase

[3~] Three phase

MOTOR DATA

Pump type		Power		Efficiency		Capacitor		Efficiency (% load)			Efficiency (% load)			Input		Full load current				Locked rotor current			
Single Phase	Three Phase	[kW]	[HP]	Single Phase	Three Phase	Single Phase	Three Phase	Three phase (380 V)			Three phase (460 V)			Single Phase	Three Phase	Single Phase	Three Phase			Single Phase	Three Phase		
						[μF]	[V]	50%	75%	100%	50%	75%	100%			220-230 V	220 V	380 V	460 V	220-230 V	220 V	380 V	460 V
COMPACT AM/46	COMPACT A/46	0.3	0.4	-	-	10	450	-	-	-	-	-	-	0.54	0.45	2.9	1.6	0.9	-	9.5	7.5	4.3	-
COMPACT AM/66	COMPACT A/66	0.44	0.6	-	-	12.5	450	-	-	-	-	-	-	0.73	0.63	3.5	2.1	1.2	-	11.3	9.8	5.6	-
COMPACT AM/86	COMPACT A/86	0.6	0.8	-	-	14	450	-	-	-	-	-	-	0.91	0.75	4.3	2.4	1.4	-	12.8	12.4	7.1	-
COMPACT AM/106	COMPACT A/106	0.75	1.0	-	IE3*	20	450	80.7	81.9	81.3	78.4	81.6	83.1	1.33	0.9	6.7	2.8	1.6	1.5	35.2	16.9	9.7	11.8
COMPACT AM/126	COMPACT A/126	0.9	1.2	-	IE3*	31.5	450	84.8	84.5	82.7	82	84.4	84.5	1.53	1.30	7.0	4.0	2.3	2.2	29.4	24.6	14.2	17.2
COMPACT AM/156	COMPACT A/156	1.1	1.5	-	IE3*	31.5	450	84.8	84.5	82.7	82	84.4	84.5	1.6	1.30	7.5	4.0	2.3	2.2	30.7	24.6	14.2	17.2
COMPACT BM/126	COMPACT B/126	0.9	1.2	-	IE3*	31.5	450	84.8	84.5	82.7	82	84.4	84.5	1.46	1.30	6.8	4.0	2.3	2.2	28.6	24.6	14.2	17.2
COMPACT BM/156	COMPACT B/156	1.1	1.5	-	IE3*	31.5	450	84.8	84.5	82.7	82	84.4	84.5	1.58	1.30	7.4	4.0	2.3	2.2	30.3	24.6	14.2	17.2

* only for 460 V

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WATER TREATMENT SOLUTIONS

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