



Construction

Close-coupled centrifugal pumps with open impeller. The built-in backflow preventer avoids reverse siphoning when the pump is stopped and assures automatic re-priming at the next start.

The pump re-priming itself even if partially filled with liquid and with completely empty suction pipe.

A: version with pump casing and lantern bracket in cast iron.

B-A: version with pump casing and lantern bracket in bronze (the pumps are supplied fully painted).

Applications

For clean or slightly dirty water, also with solids up to 10 mm grain size for A 40, A 50 and 15 mm for A 65, A 80.

For draining a basin or a sump.

For irrigation.

For civil and industrial applications.

Operating conditions

Liquid temperature from -10 °C to +90 °C.

Room temperature up to 40 °C.

Maximum permissible working pressure up to 6 bar (10 bar for A 80-170).

Continuous duty.

Motor

2-pole induction motor, 60 Hz ($n \approx 3450$ rpm).

A: three-phase 220/380 V, 380/660 V;

AM: single-phase 220 V, with thermal protector up to 1.1 kW.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.

EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages. Protection IP 55. Special mechanical seal.

Higher or lower liquid or ambient temperatures.

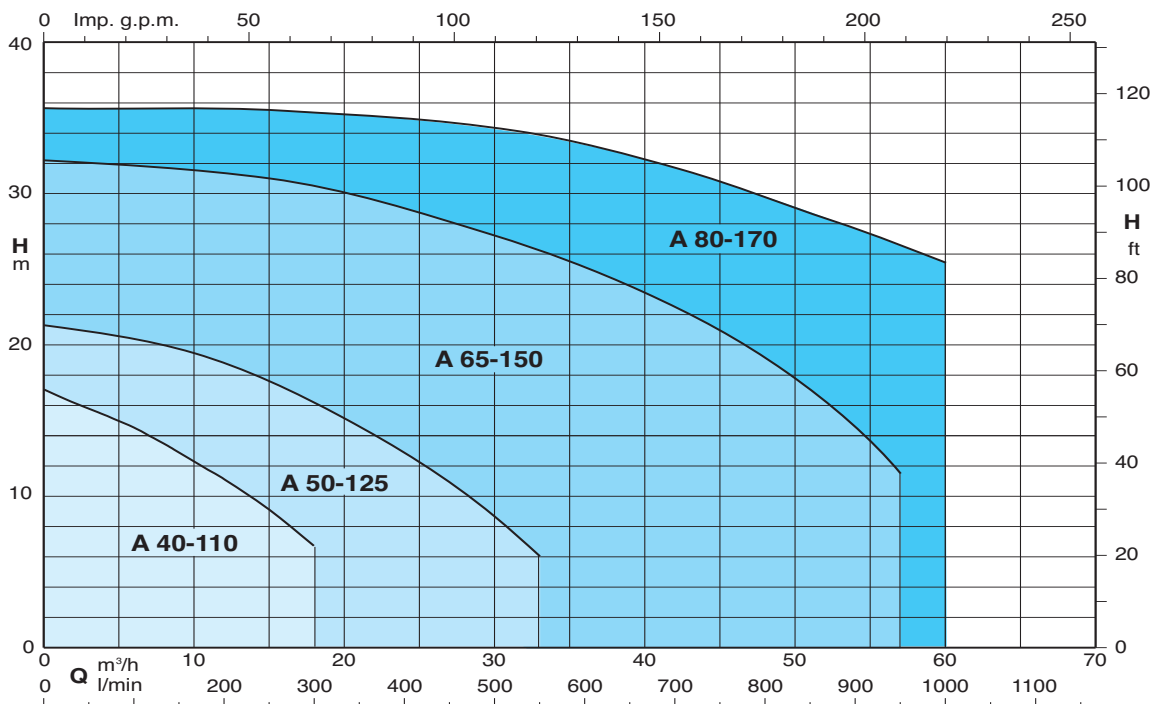
Explosion proof construction in accordance with Directive 94/9 EEC (ATEX).

Construction with bearing bracket.

Materials

Components	A	B-A
Pump casing Suction flange Inspection cover (for A 65, A 80) Lantern bracket Impeller	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)
	Chrome steel 1.4104 EN 10088 (AISI 430) for A 65-150AE, BE	
Mechanical seal	Carbon - Ceramic - NBR	

Coverage chart $n \approx 3450$ rpm



Performance n ≈ 3450 rpm

3 ~	220V 380V			1 ~	220 V		P ₂		Q m ³ /h l/min										
	A	A	IA/IN		A	IA/IN	kW	HP		3,6	4,8	6	7,5	8,4	9,6	10,8	12	15	18
A 40-110B-60/A B-A 40-110B-60/A	3,6	2,1	3,7	AM 40-110B-60/A B-AM 40-110B-60/A	5,2	3,1	0,55	0,75	H_m	12,5	12	11,3	10,5	10	9,4	8,6	7,8	5,4	
A 40-110A-60/A B-A 40-110A-60/A	4,5	2,6	6,8	AM 40-110A-60/A B-AM 40-110A-60/A	6,9	3,1	0,75	1		15,5	15	14,5	13,7	13,2	12,5	11,8	11,1	9,1	6,7

3 ~	220V 380V			1 ~	220 V		P ₂		Q m ³ /h l/min										
	A	A	IA/IN		A	IA/IN	kW	HP		6	9	12	15	18	21	24	27	30	33
A 50-125CE-60 B-A 50-125CE-60	4	2,3	4,8	AM 50-125CE-60 B-AM 50-125CE-60	6,5	2,9	0,75	1	H_m	13,5	13	12	11	9,5	8	6	4		
A 50-125BE-60 B-A 50-125BE-60	5,7	3,3	5,5	AM 50-125BE-60 B-AM 50-125BE-60	8,5	3	1,1	1,5		16,5	16	15	13,5	12	10,5	9	7	5	
A 50-125AE-60 B-A 50-125AE-60	9	5,2	5,4	AM 50-125AE-60 B-AM 50-125AE-60	10,6	3,8	1,5	2		20	19,5	18,5	17,5	16	14,5	13	11	9	6

3 ~	220V 380V			P ₂	Q m ³ /h l/min													
	A	A	IA/IN			kW	HP	15	18	24	30	33	36	42	48	54	57	
A 65-150C-60/B B-A 65-150C-60/A	11,1	6,4	7,3	2,2	3	H_m	19,5	19	17	15,5	14,5	13	11	6,5				
A 65-150B-60/B B-A 65-150B-60/A	13,4	7,7	8,4				3	4	22,5	21,5	20	18,5	17	16	13,5	10	5	
A 65-150A-60/B B-A 65-150A-60/A	-	11,2	7,8				4	5,5	31	30,5	29	27	26	25	22,5	19	15	11,5

3 ~	220V 380V			P ₂	Q m ³ /h l/min											
	A	A	IA/IN			kW	HP	15	18	21	24	30	36	45	54	60
A 80-170B-60/A B-A 80-170B-60/A	-	13,7	8,7	5,5	7,5	H_m	29,9	29,8	29,7	29,3	28,2	26,6	23,8	20,3	17,3	
A 80-170A-60/A B-A 80-170A-60/A	-	17	9,2				7,5	10	35,5	35,5	35,2	35	34,4	33,2	30,9	27,6

P₂ Rated motor power output.

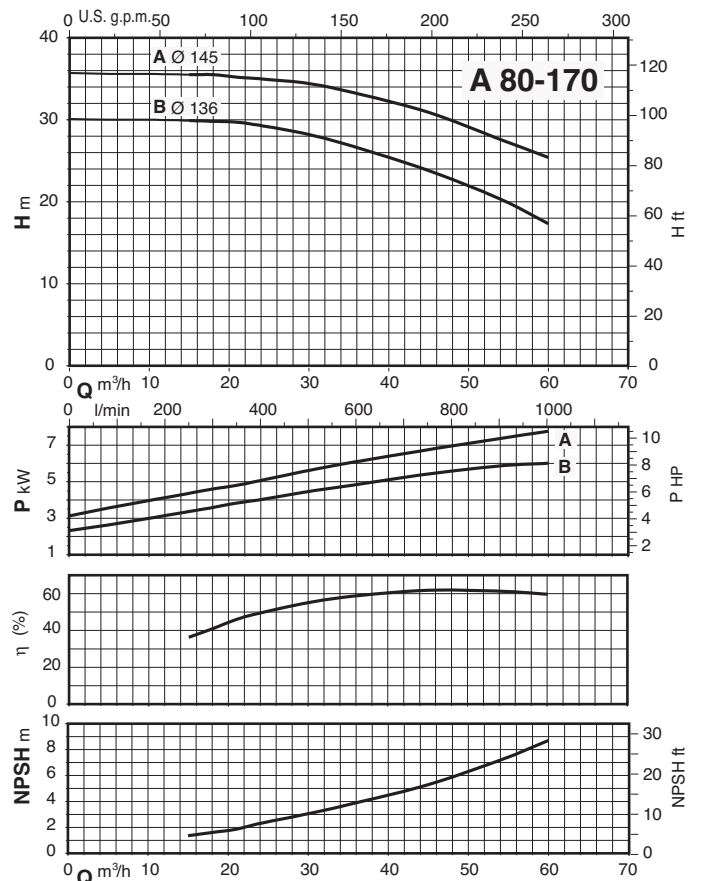
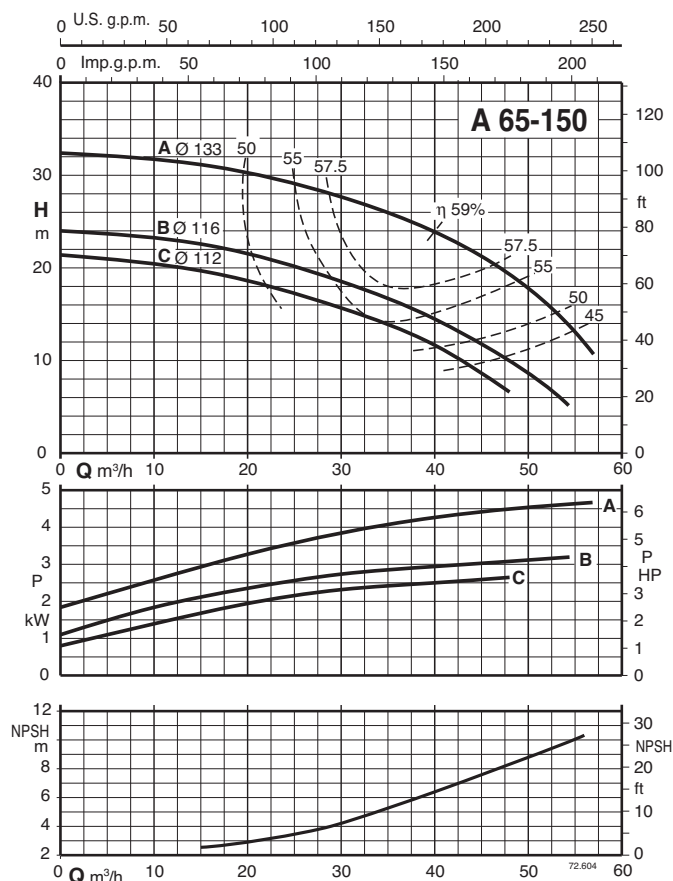
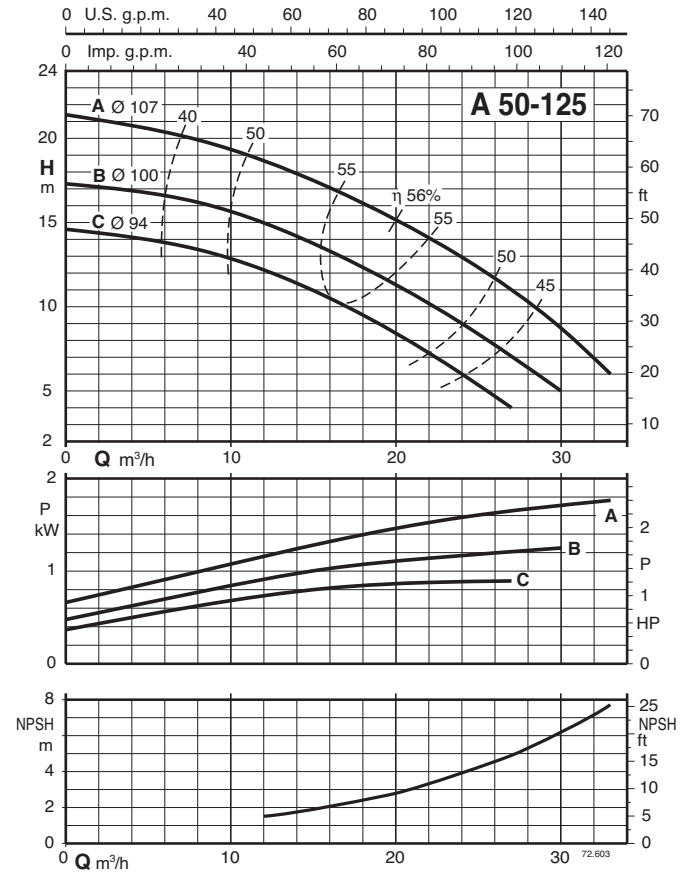
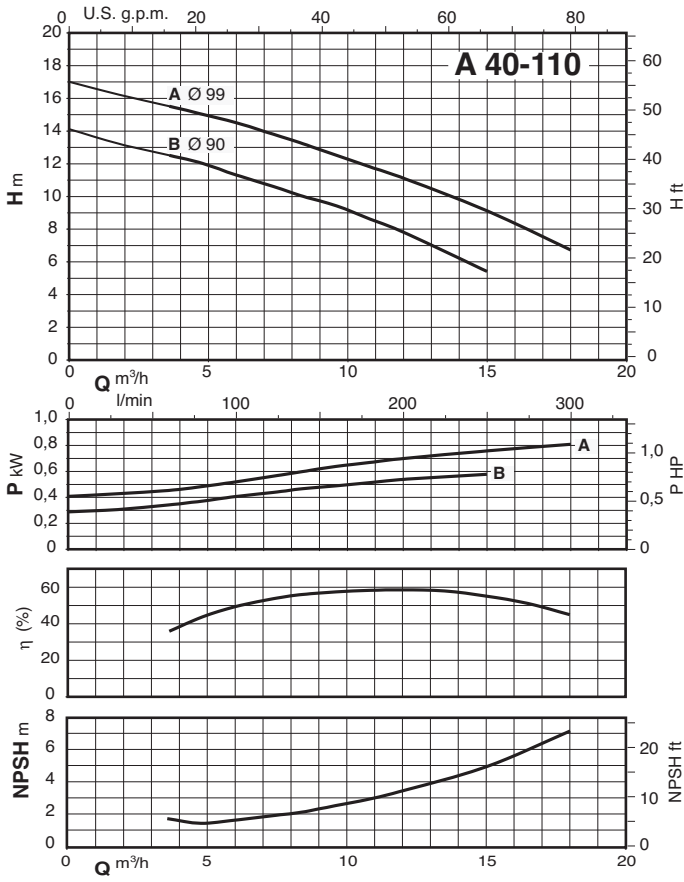
B-A, B-AM = Bronze construction.

Tolerances according to UNI EN ISO 9906:2012.

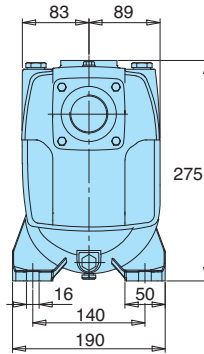
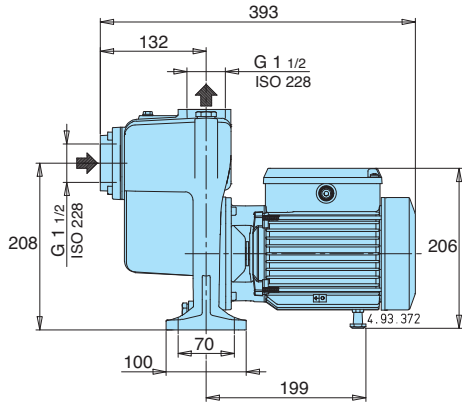
IA/IN = D.O.L. starting current / Rated current.

H Total head in m.

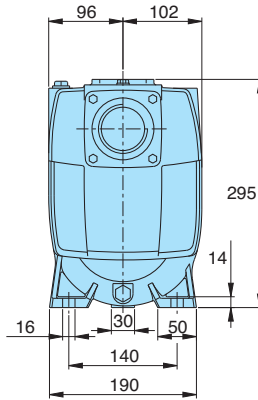
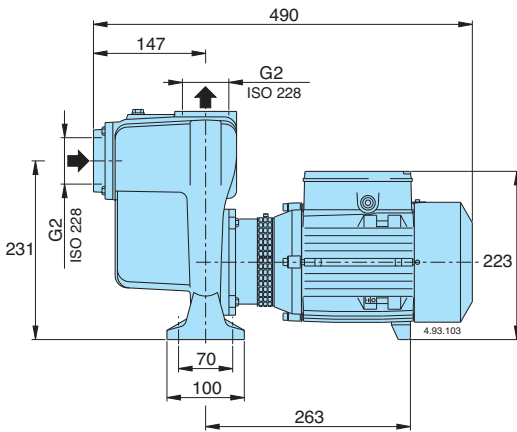
Characteristic curves $n \approx 3450$ rpm



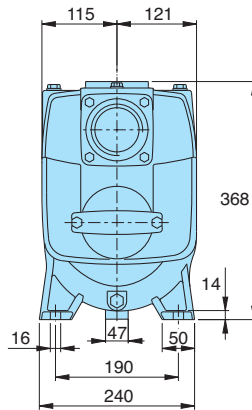
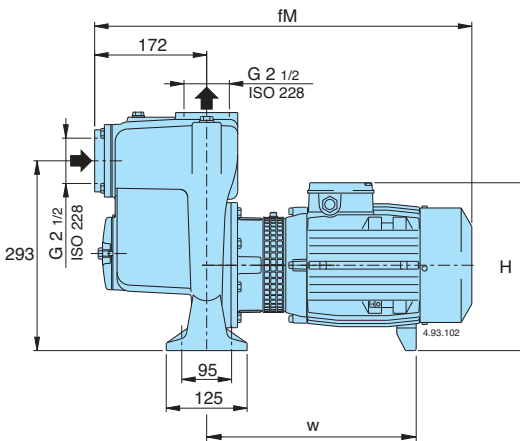
Dimensions and weights



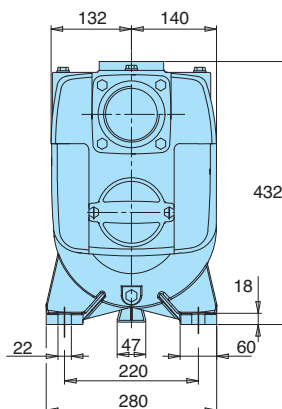
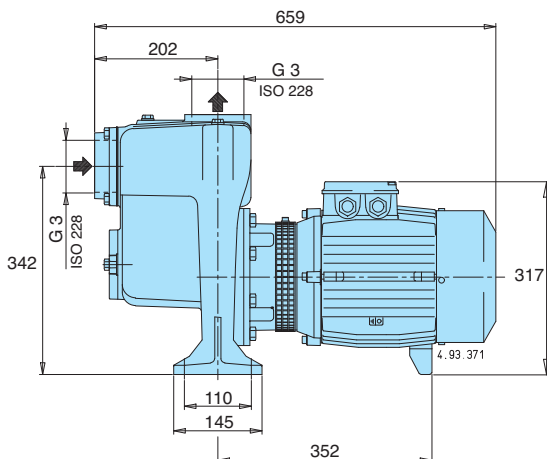
	kg
A 40-110A-60/A	19,8
AM 40-110A-60/A	20,8
A 40-110B-60/A	18,9
AM 40-110B-60/A	19,8
B-A 40-110A-60/A	22,5
B-AM 40-110A-60/A	23,5
B-A 40-110B-60/A	21,6
B-AM 40-110B-60/A	22,5



	kg
A 50-125AE-60	29,9
AM 50-125AE-60	31
A 50-125BE-60	28
AM 50-125BE-60	29,1
A 50-125CE-60	26,9
AM 50-125CE-60	27,8
B-A 50-125AE-60	33,6
B-AM 50-125AE-60	33,6
B-A 50-125BE-60	31
B-AM 50-125BE-60	32,6
B-A 50-125CE-60	29,6
B-AM 50-125CE-60	30,6

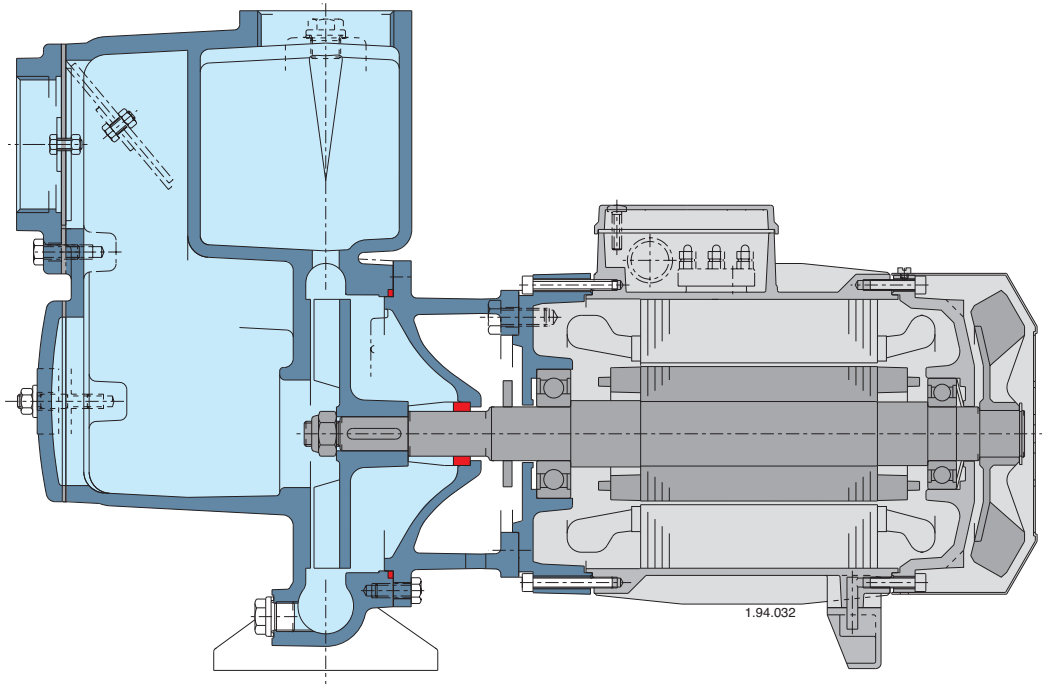


TYPE	mm			kg
	fM	H	w	
A 65-150C-60/B	635	260	364	56,7
B-A 65-150C-60/A	583	260	319	50,4
A 65-150B-60/B	595	270	324	57
B-A 65-150B-60/A				58,5
A 65-150A-60/B	595	270	324	58,5
B-A 65-150A-60/A				60



	kg
A 80-170A-60/A	85,8
A 80-170B-60/A	80,3
B-A 80-170A-60/A	95,6
B-A 80-170B-60/A	90,1

Features



Fast self priming

An integrated non-return valve and the design of the pump casing ensures rapid priming, once the pump body has been filled with water.

Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows A series pumps to be selected for use with different types of liquids.

Solid parts

The open impeller allows for the passage of suspended solids in pumped liquid.

Exclusive design

An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Reliability

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.