



**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, 50 Hz (n ≈ 2900 rpm).  
**A** three-phase 230/400 V ± 10% up to 3 kW; 400/690 V ± 10% from 4 to 7,5 kW;  
**AM:** single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.

Insulation class F. Protection IP 54. **Classification scheme IE3 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.

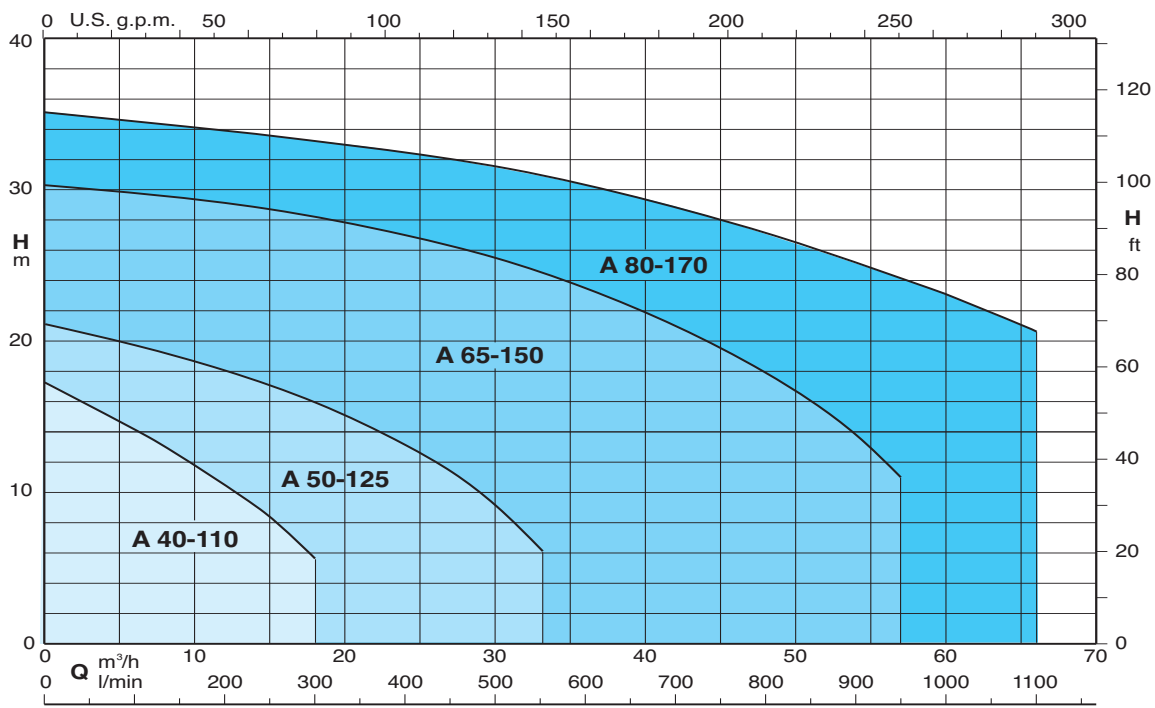
**Special features on request**

Other voltages. Frequency 60 Hz (as per 60 Hz data sheet). Protection IP 55. Special mechanical seal. Higher or lower liquid or ambient temperatures. 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 40/110, A 65-150A,B	
Mechanical seal	Carbon - Ceramic - NBR	

**Coverage chart n ≈ 2900 rpm**





**Performance  $n \approx 2900$  rpm**

3 ~	230 V 400 V		1 ~	230 V		P <sub>1</sub>		P <sub>2</sub>		Q	H m									
	A	A		A	kW	kW	HP	m <sup>3</sup> /h	l/min		3,6	4,8	6	7,5	8,4	9,6	10,8	12	15	18
A 40-110B/A B-A 40-110B/A	2,8	1,6	AM 40-110B/A B-AM 40-110B/A	4,5	0,85	0,55	0,75				12,9	12,4	11,8	11	10,4	9,8	9	8,3	6	3,4
A 40-110A/B B-A 40-110A/B	3,7	2,2	AM 40-110A/A B-AM 40-110A/A	6	1,1	0,75	1				15,4	14,9	14,2	13,3	12,9	12,1	11,3	10,5	8,4	5,6

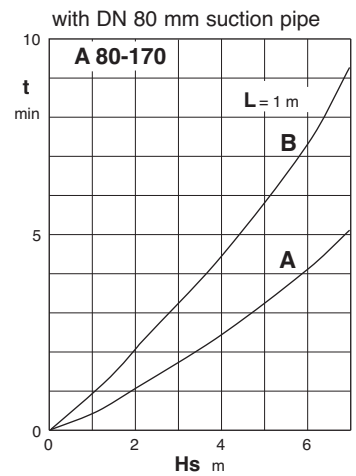
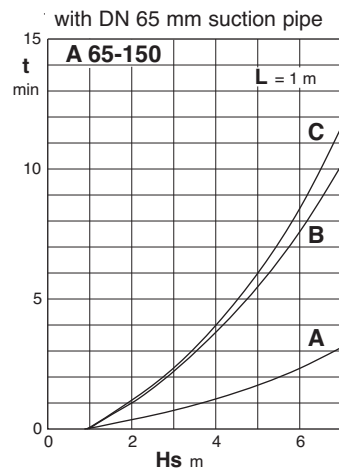
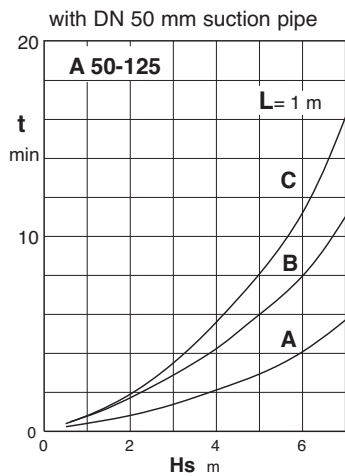
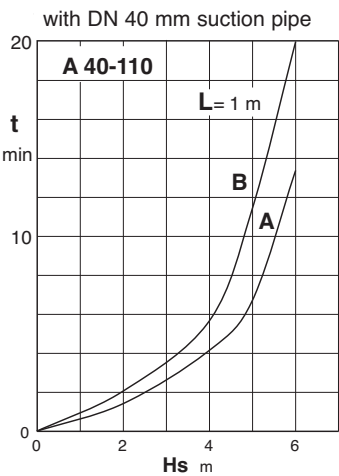
3 ~	230 V 400 V		1 ~	230 V		P <sub>1</sub>		P <sub>2</sub>		Q	H m									
	A	A		A	kW	kW	HP	m <sup>3</sup> /h	l/min		6	9	12	15	18	21	24	27	30	33
A 50-125CE B-A 50-125CE	3,3	1,9	AM 50-125CE B-AM 50-125CE	5,8	1,2	0,75	1				12,8	12,2	11,3	10	8,5	7	5,3	3,3		
A 50-125B/A B-A 50-125B/A	4,7	2,7	AM 50-125BE B-AM 50-125BE	7,4	1,6	1,1	1,5				15,5	14,9	14,2	12,9	11,6	10	8,3	6,2	4	
A 50-125A/A B-A 50-125A/A	7,5	4,3	AM 50-125AE B-AM 50-125AE	9,2	2,1	1,5	2				19,5	19	18	17	15,5	14	12,5	10,5	8	5

3 ~	230 V 400 V		P <sub>2</sub>	P <sub>2</sub>		Q	H m										
	A	A		kW	HP		m <sup>3</sup> /h	l/min	15	18	24	30	33	36	42	48	54
A 65-150C/C B-A 65-150C/B	11,5 9,15	6,6 5,3		2,2	3		17,5	17	16	14	13	11,5	9	6,5			
A 65-150B/B B-A 65-150B/A	11,5	6,6		3	4		21,5	21	19,5	17,5	16,5	15,5	12,5	9,5	6,5		
A 65-150A/C B-A 65-150A/B	-	9,6		4	5,5		29	28	27	25,5	24,5	23,5	21	18	14	11	

3 ~	230 V 400 V		P <sub>2</sub>	P <sub>2</sub>		Q	H m										
	A	A		kW	HP		m <sup>3</sup> /h	l/min	15	18	21	24	30	36	45	54	60
A 80-170B/A B-A 80-170B/A	-	10,9		5,5	7,5		27,3	27,3	27	26,8	25,7	24,4	22,1	19	16,7	13,7	
A 80-170A/A B-A 80-170A/A	-	14,3		7,5	10		33,6	33,2	32,9	32,5	31,6	30,5	28,1	25,3	23,2	20,4	

P<sub>1</sub> Maximum power input. P<sub>2</sub> Rated motor power output. H Total head in m. B-A, B-AM = Bronze construction. Tolerances according to UNI EN ISO 9906:2012

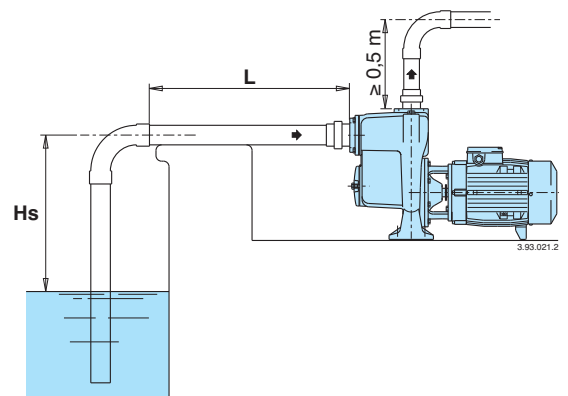
**Self-priming capability**



H<sub>s</sub> (m) Suction lift.

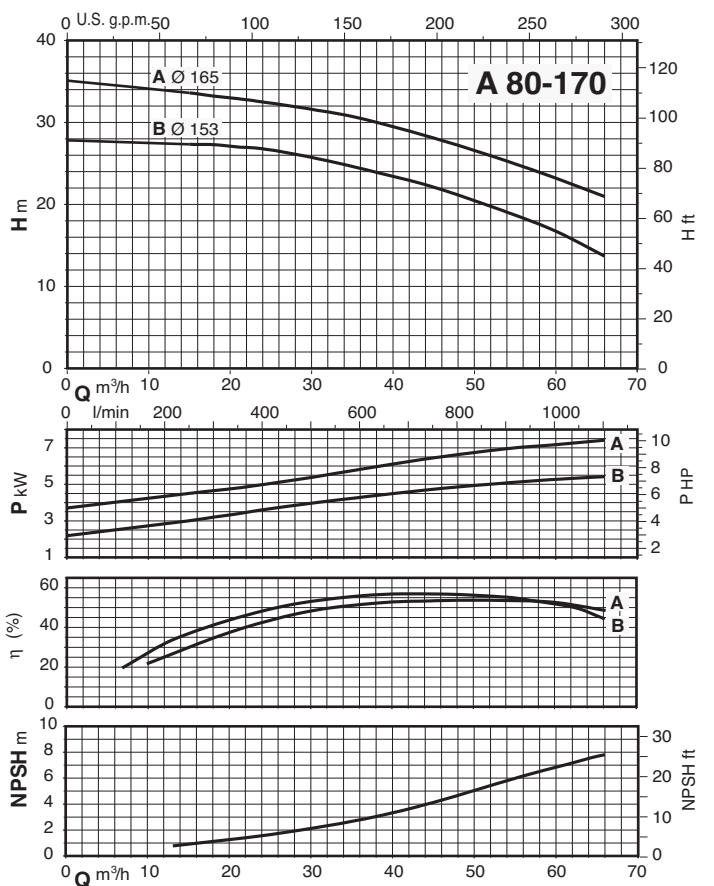
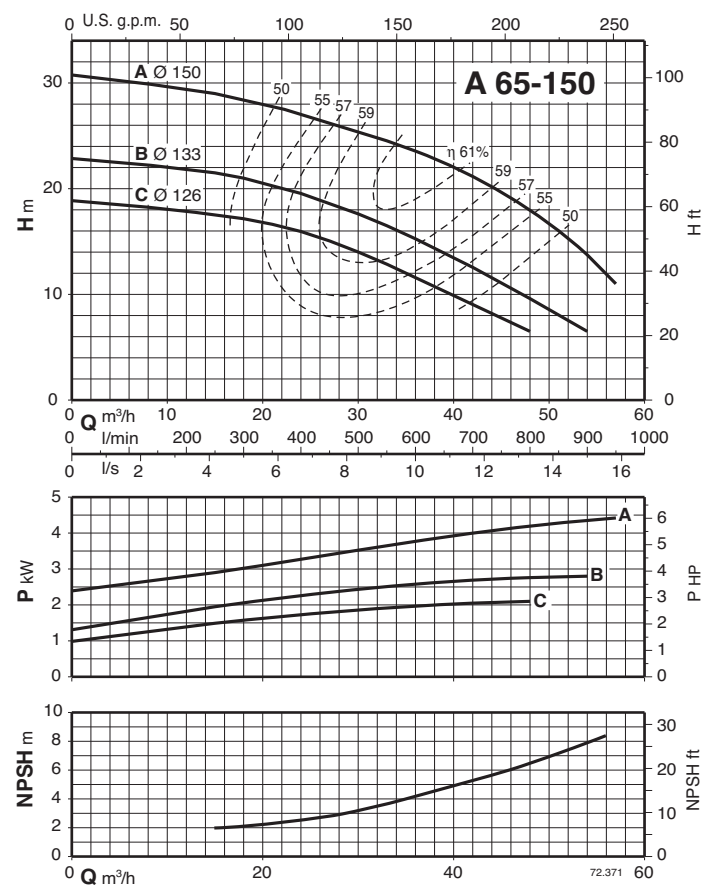
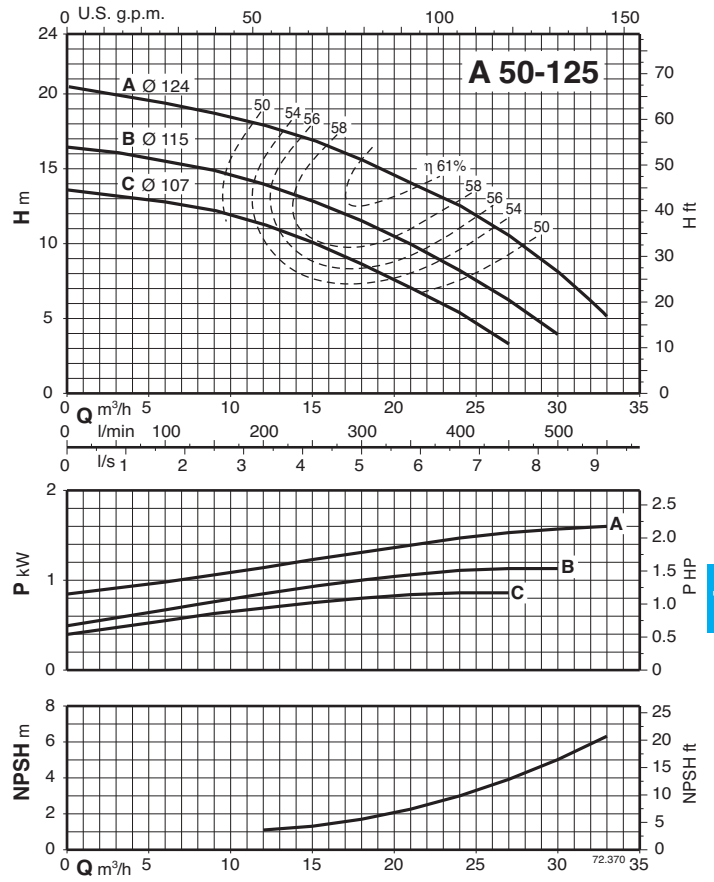
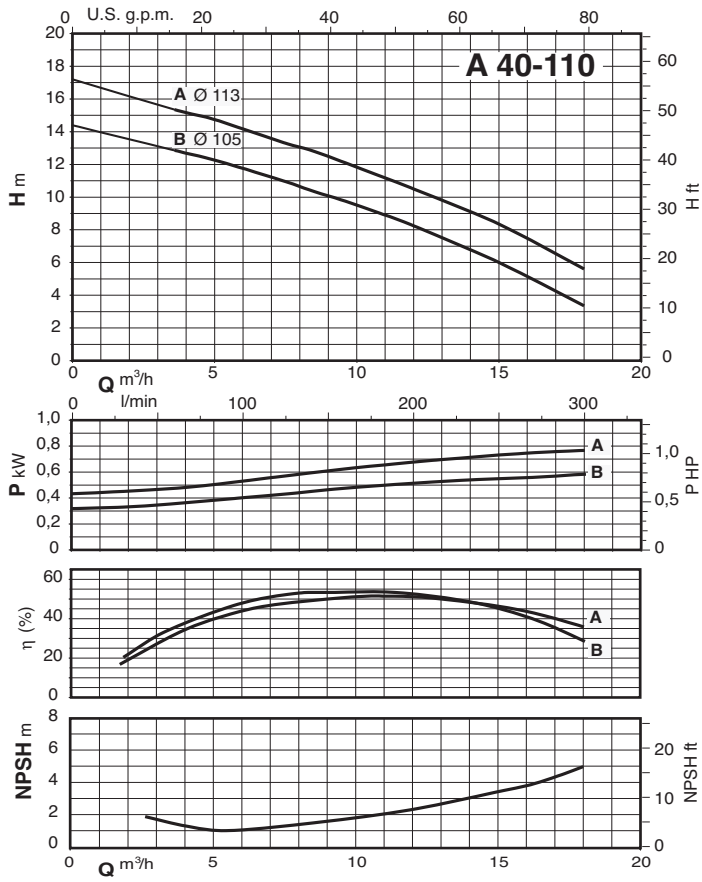
L (m) Horizontal length of suction pipe above the water level.

t (min) Self-priming time.

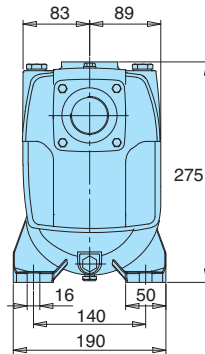
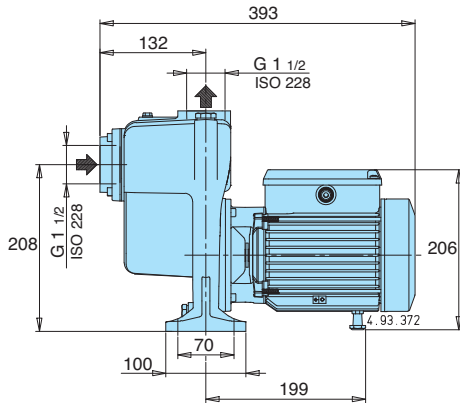




**Characteristic curves  $n \approx 2900$  rpm**



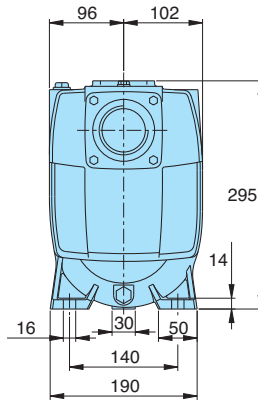
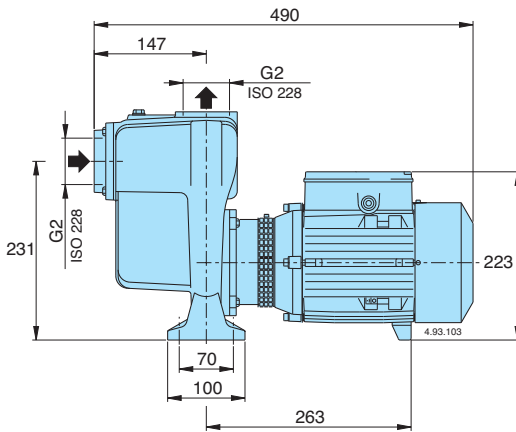
**Dimensions and weights**



kg

A 40-110A/B	19,8
AM 40-110A/A	20,8
A 40-110B/A	18,9
AM 40-110B/A	19,8

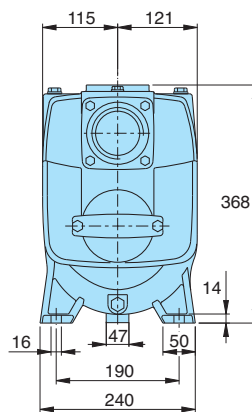
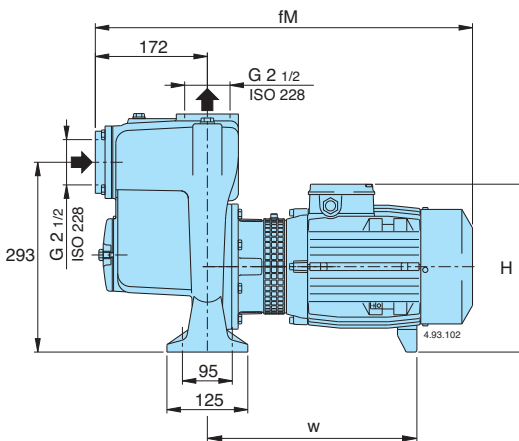
B-A 40-110A/B	22,5
B-AM 40-110A/A	23,5
B-A 40-110B/A	21,6
B-AM 40-110B/A	22,5



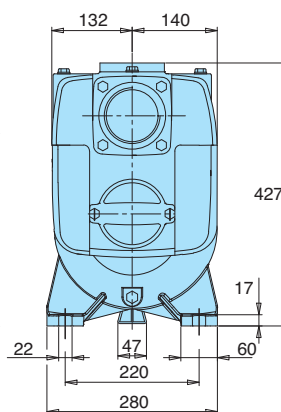
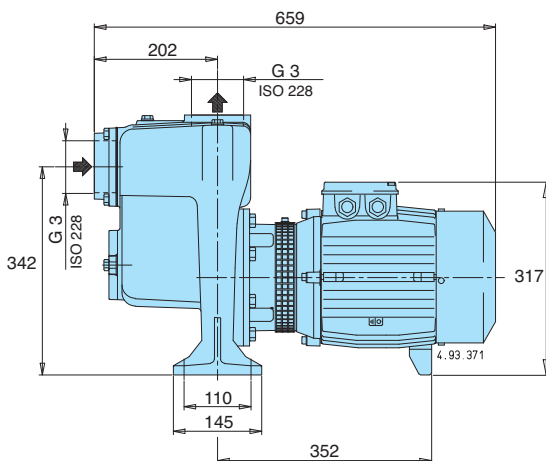
kg

A 50-125A/A	29,9
AM 50-125AE	31
A 50-125B/A	28
AM 50-125BE	29,1
A 50-125CE	26,9
AM 50-125CE	27,8

B-A 50-125A/A	33,6
B-AM 50-125AE	33,6
B-A 50-125B/A	31
B-AM 50-125BE	32,6
B-A 50-125CE	29,6
B-AM 50-125CE	30,6



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



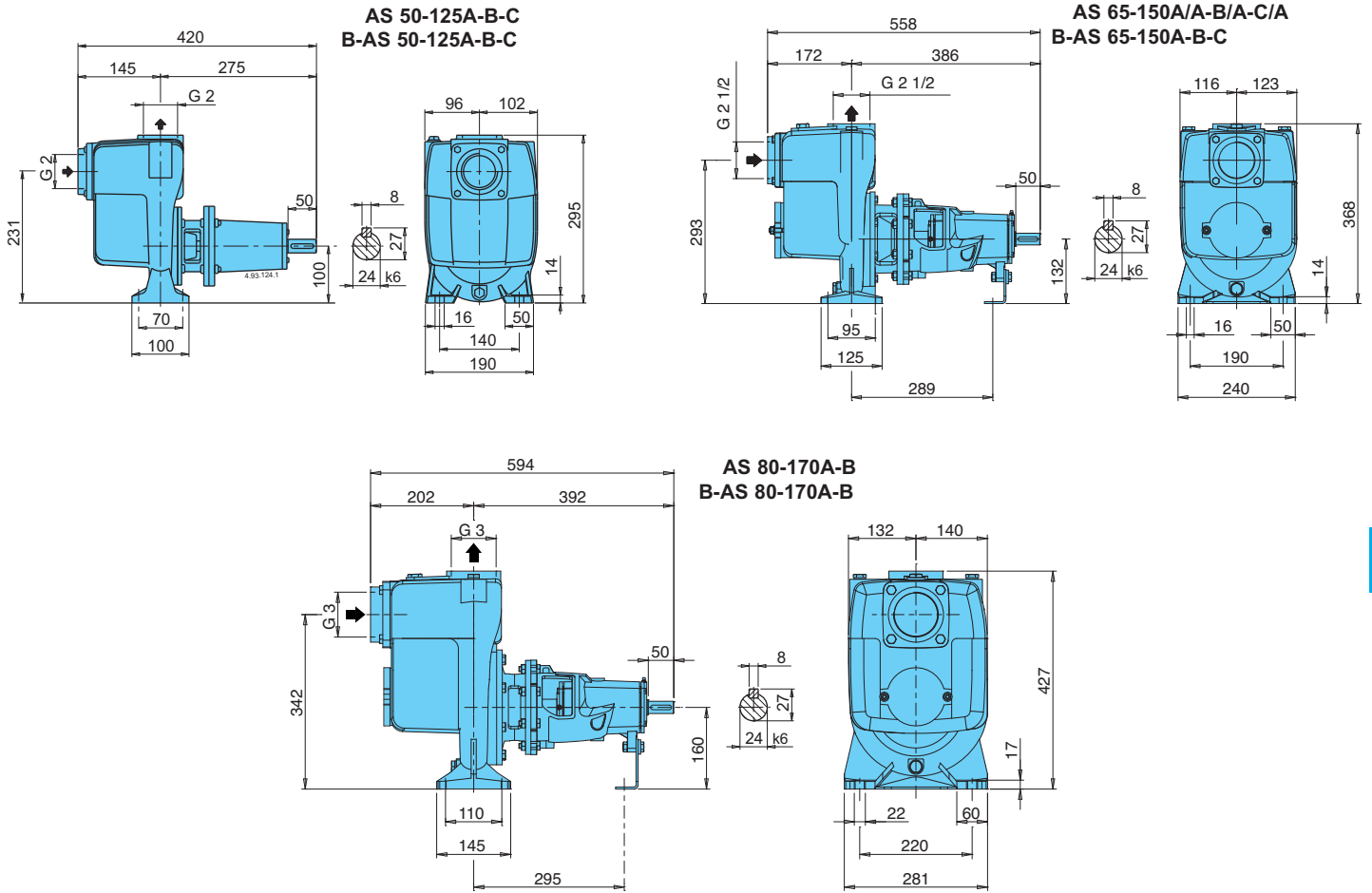
kg

A 80-170A/A	85,8
A 80-170B/A	80,3

B-A 80-170A/A	95,6
B-A 80-170B/A	90,1

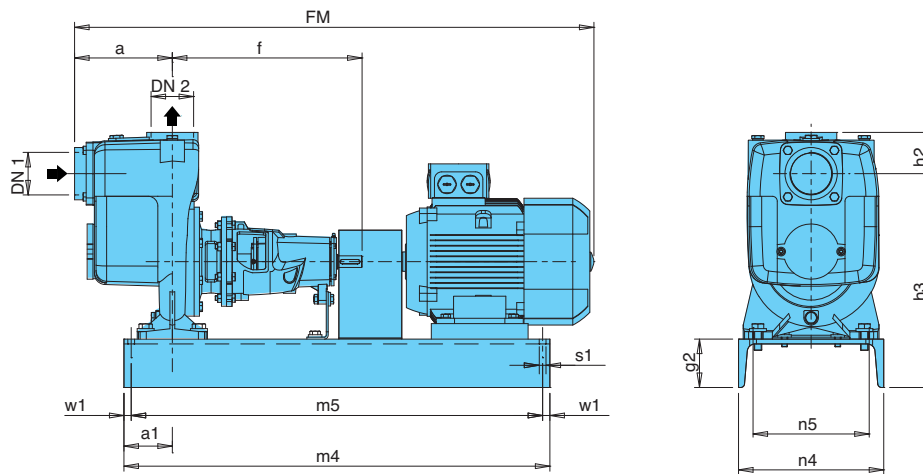


**Dimensions and weights**

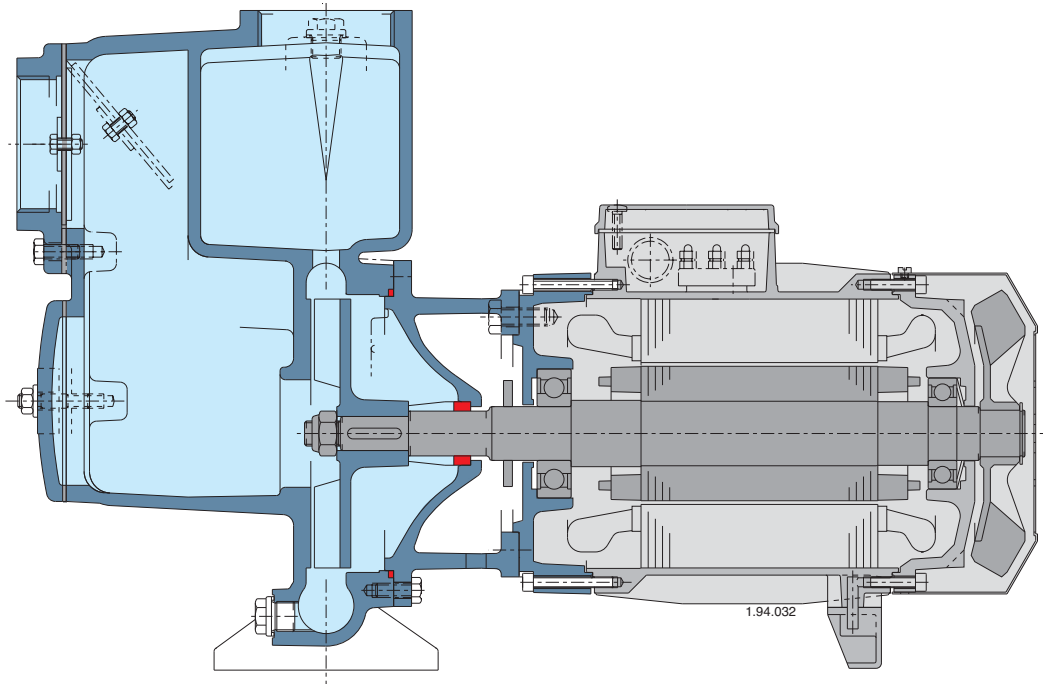


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**Pumps with motor**



PUMP	MOTOR	kW	mm														
			DN1	DN2	a	f	h3	h2	m4	m5	w1	n4	n5	a1	g2	s1	FM≈
B-AS - AS 50-125C	80 M2	0,75															
B-AS - AS 50-125B	80 M2	1,1	G 2	G 2	145	275	306	64	625	595	15	140	200	100	75	14	716
B-AS - AS 50-125A	90 S2	1,5															771
B-AS - AS 65-150C/A	90 L2	2,2															909
B-AS - AS 65-150B/A	100 L2	3	G 2 1/2	G 2 1/2	172	386	378	93	880	850	15	190	240	90	85	14	958
B-AS - AS 65-150A/A	112 M2	4							880	850							951
B-AS - AS 80-170B/A	132 S2	5,5	G3	G3	202	392	442	85	880	850	15	240	300	100	100	14	1073
B-AS - AS 80-170A/A	132 S2	7,5															1073

**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.

**Flexible**

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, providing protection to the end user whilst allowing for inspection of the mechanical seal.

**Reliable**

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