

Construction

Close-coupled self-priming liquid ring pumps with star impeller.

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

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
 If the liquid to be pumped has entrained air or gas or the flow in the suction pipe is not stable.
 For drawing water out of a well.
 For increasing network pressure (follow local specifications).

Operating conditions

Liquid temperature from -10 °C to +90 °C.
 Ambient temperature up to 40 °C.
 Negative suction pressure up to 9 m.
 Continuous duty.

Motor

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

CA: three-phase 220/380 V.

CAM: single-phase 220 V, with thermal protector.

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.

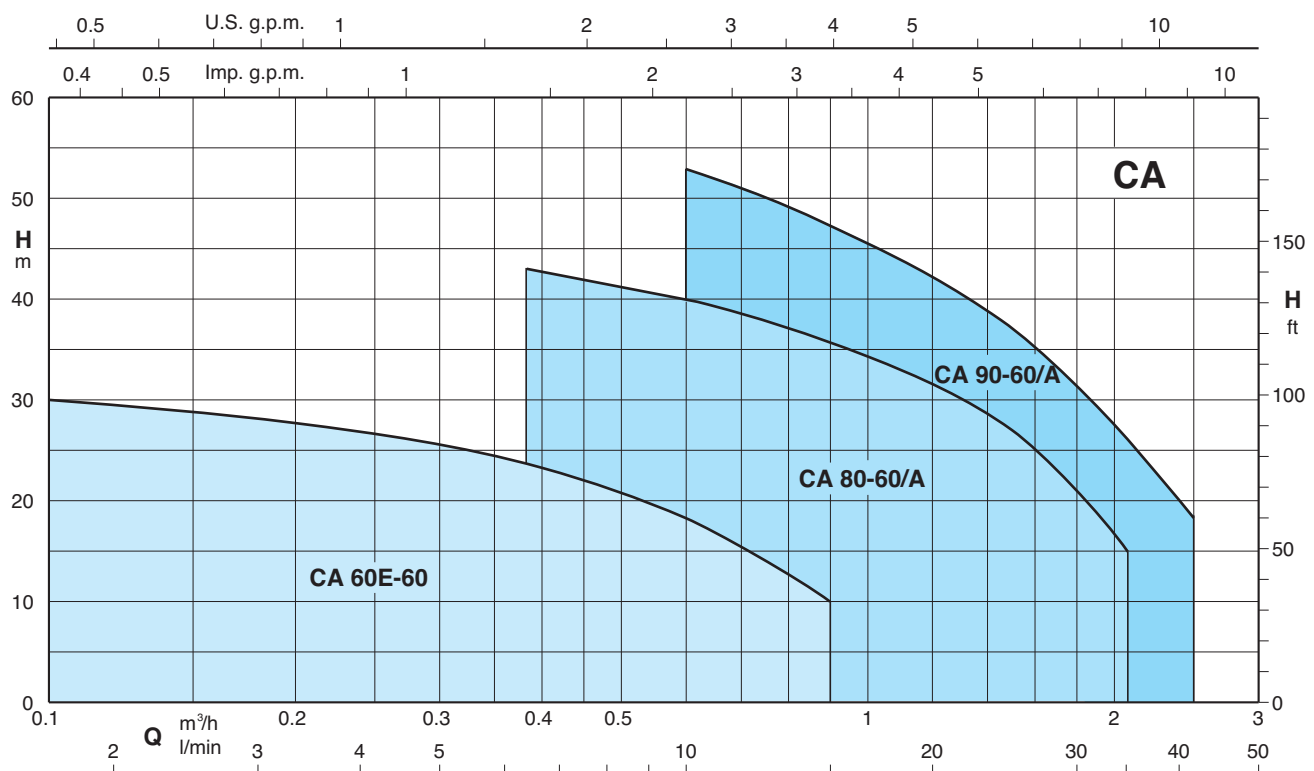
Materials

Components	CA	B-CA
Pump casing	Cast iron	Bronze
Lantern bracket	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705	
Shaft	Chrome steel AISI 430	Cr-Ni-Mo steel AISI 316
Mechanical seal	Carbon - Ceramic - NBR	

Special features on request

- Other voltages. - Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.

Coverage chart $n \approx 3450$ rpm



Performance n ≈ 3450 rpm

3 ~	220 V 380 V			1 ~		220 V		P ₂		Q m ³ /h l/min	0,12	0,24	0,38	0,48	0,6	0,75	0,9	1	1,2	1,5	1,89	2,1	2,4	2,5	
	A	A	IA/IN	A	IA/IN	kW	HP	2	4		6,3	8	10	12,5	15	16	20	25	31,5	35	40	41,6			
CA 60E-60 B-CA 60E-60	2	1,2	4	CAM 60E-60 B-CAM 60E-60	2,8 2,7	0,33	0,45	H m	29	27	24	22	18	14	10										
CA 80-60/A B-CA 80-60/A	3,6	2,1	3,7	CAM 80-60/A B-CAM 80-60/A	5,2 3,1	0,55	0,75					43	42	40	37,5	36	34	31	27	19	15				
CA 90-60/A B-CA 90-60/A	4,5	2,6	6,8	CAM 90-60/A B-CAM 90-60/A	6,9 3,1	0,75	1							53	50	48	47	42	36,5	29	25	20	18		

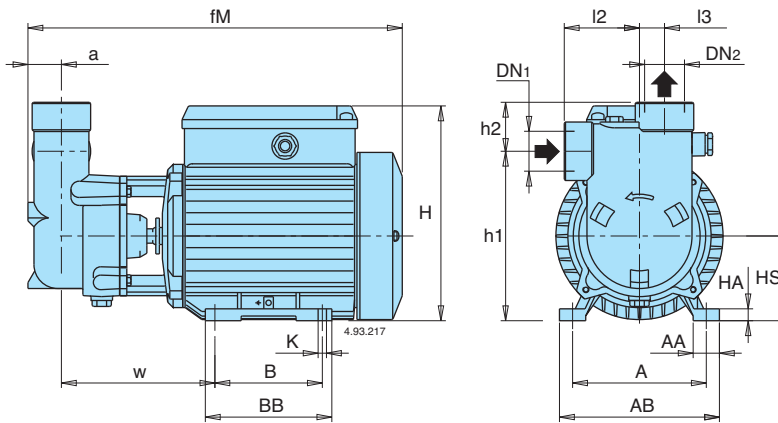
IA/IN = D.O.L. starting current / Rated current.

P₂ Rated motor power output.

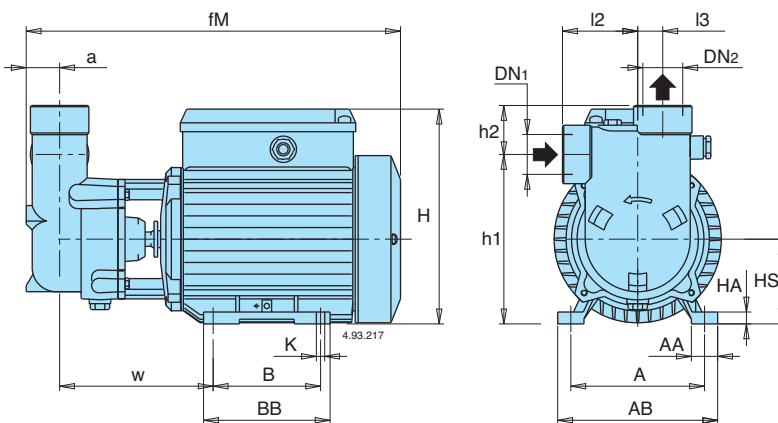
B-CA = Bronze construction.

H Total head in m.

Dimensions and weights

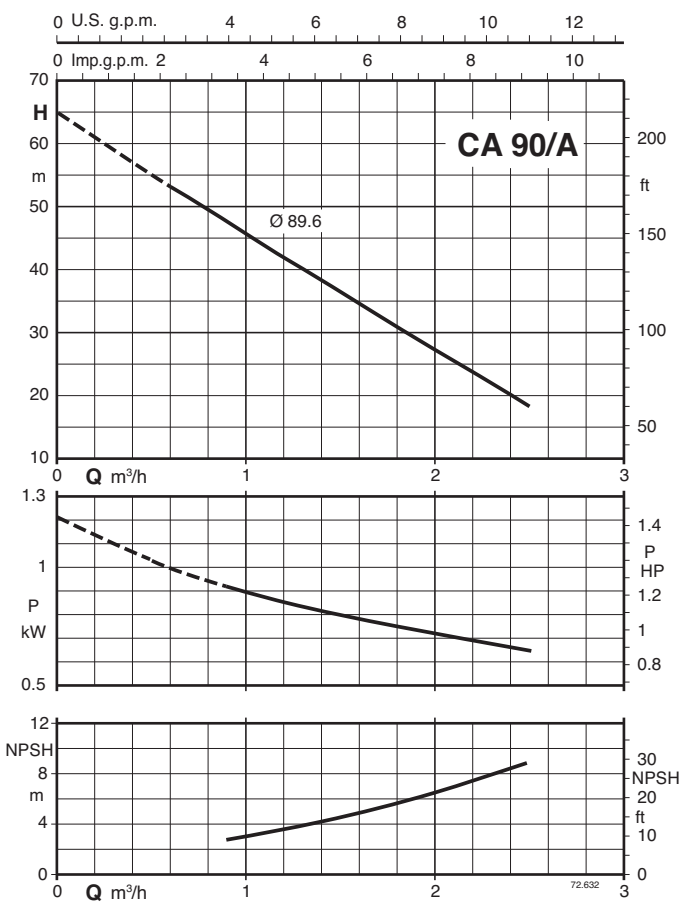
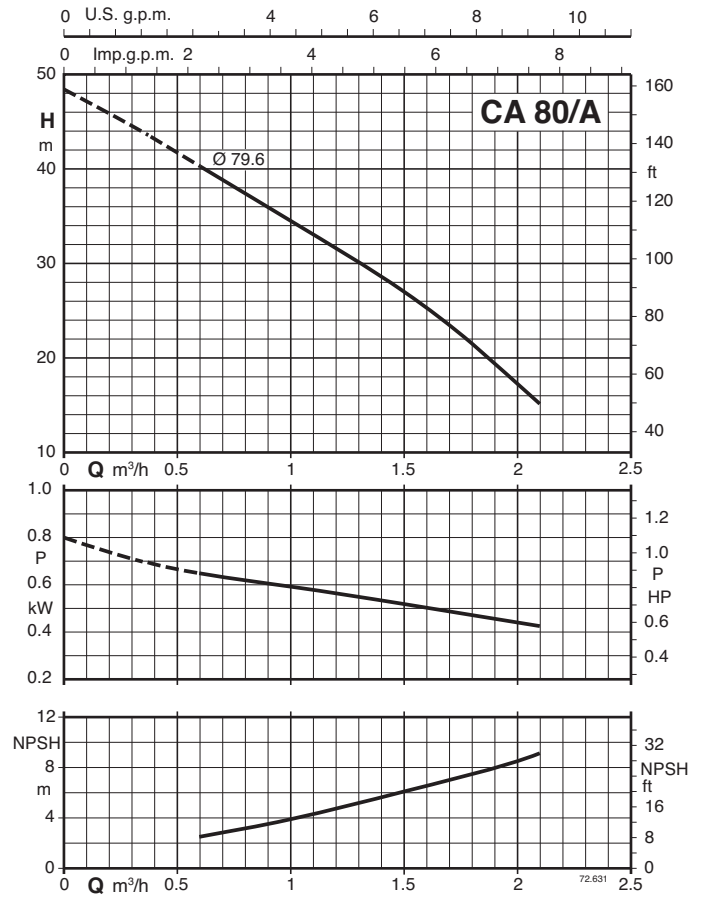
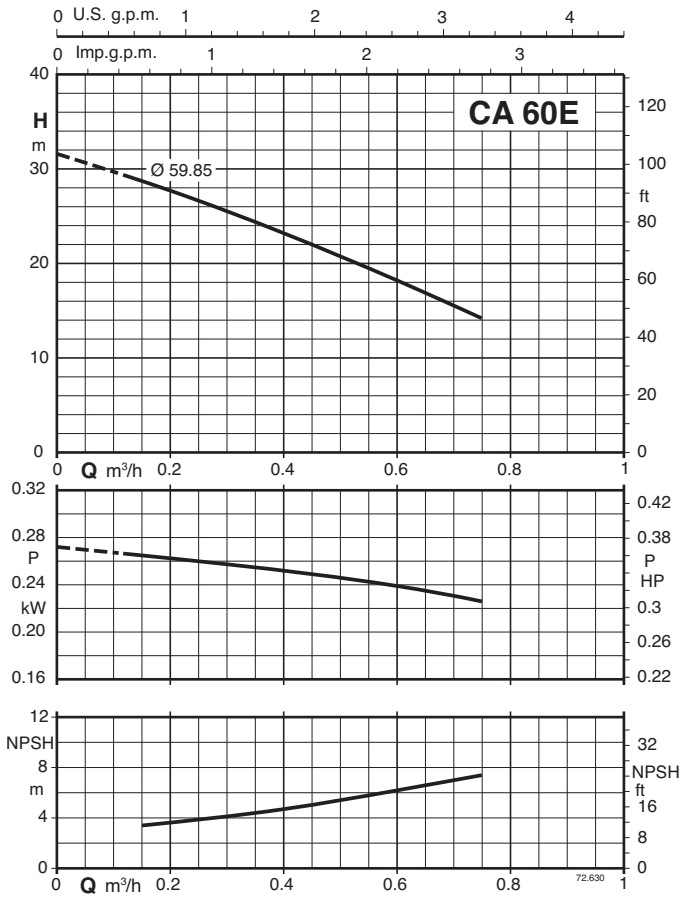


TYPE	DN ₁ ISO 228	DN ₂	mm															kg		
			a	fM	HS	h2	h1	H	BB	B	AB	A	AA	K	I2	I3	w	HA	CA	B-CA
CA 60E-60 B-CA 60E-60	G 1/2	G 1/2	18	256	63	25	103	158	96	80	122	100	22	7	45	14	103	8	6	6.8
CA 80-60/A	-	G 3/4	23	306	71	27	134	182	106	90	134	112	22	7	55	17	122	10	9.5	-
CA 90-60/A	-	G 1	28	318	71	41	142	182	106	90	134	112	22	7	63	21	128	10	10,8	-

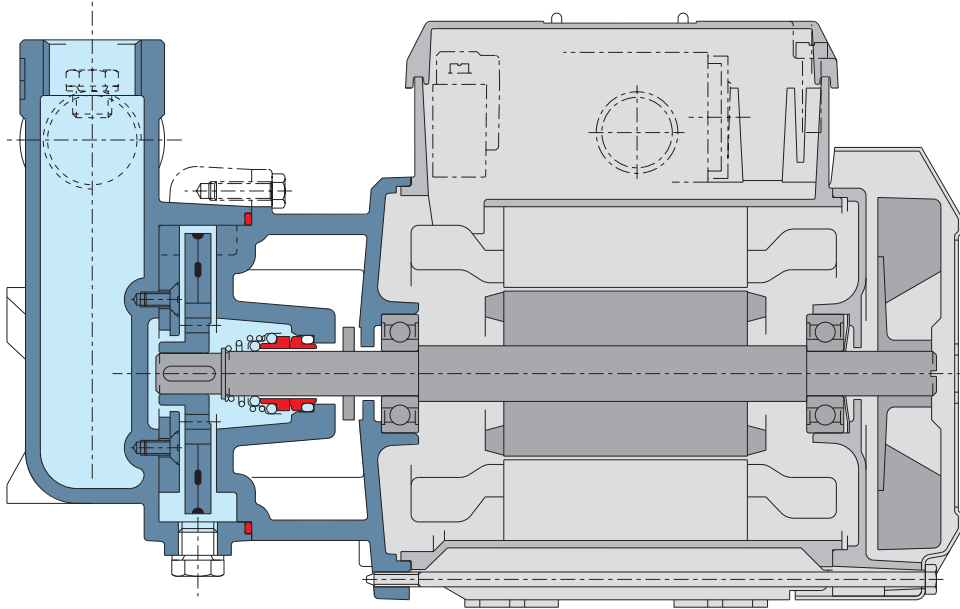


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			a	fM	HS	h2	h1	H	BB	B	AB	A	AA	K	I2	I3	w		HA	
B-CA 80-60/A	G 3/4	G 3/4	23	307	71	27	134	182	106	90	134	112	22	7	55	17	122	10	10	
B-CA 90-60/A	G 1	G 1	28	318	71	41	142	182	106	90	134	112	22	7	63	21	128	10	13.1	

Characteristic curves $n \approx 3450$ rpm



Features



Fast self priming

The hydraulic design ensures fast self priming once the pump body is 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 CA series pumps to be selected for use with different types of liquids.

Easy maintenance

The construction features an anti-wear ring screwed to the pump body, allowing for rapid replacement in case of wear.