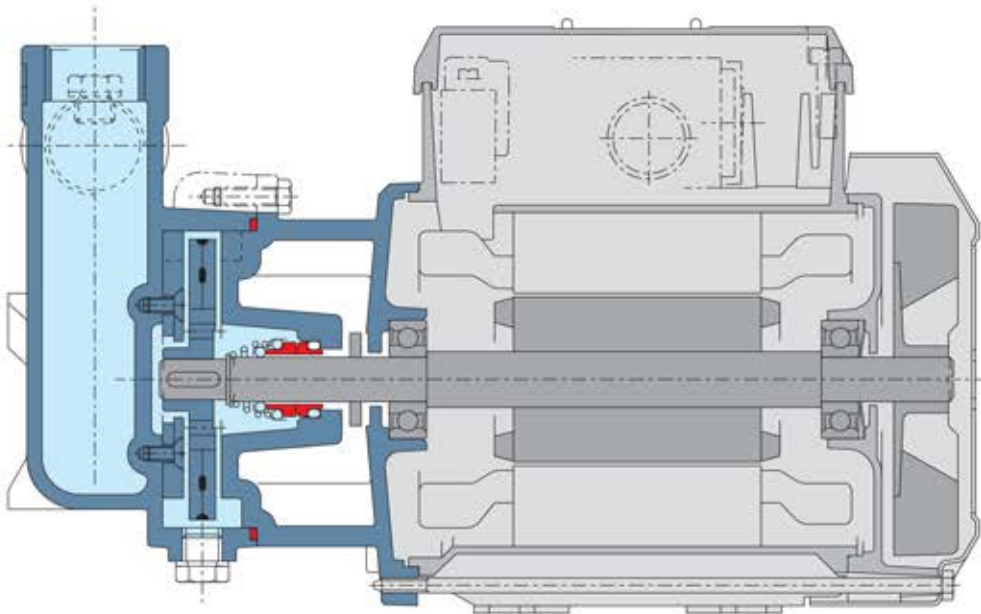


Features**Fast self priming**

The hydraulic design ensures fast self priming once the pump body is filled with water.

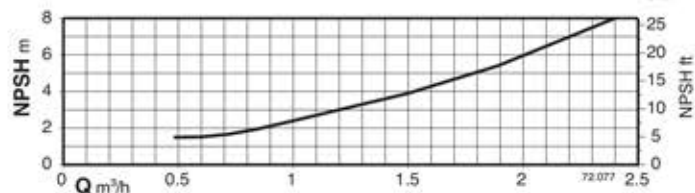
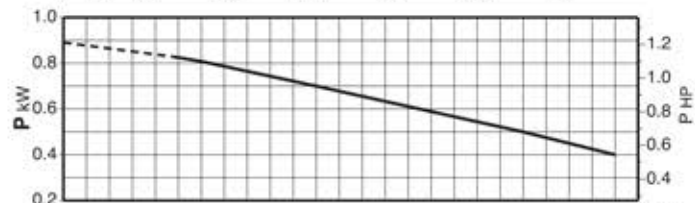
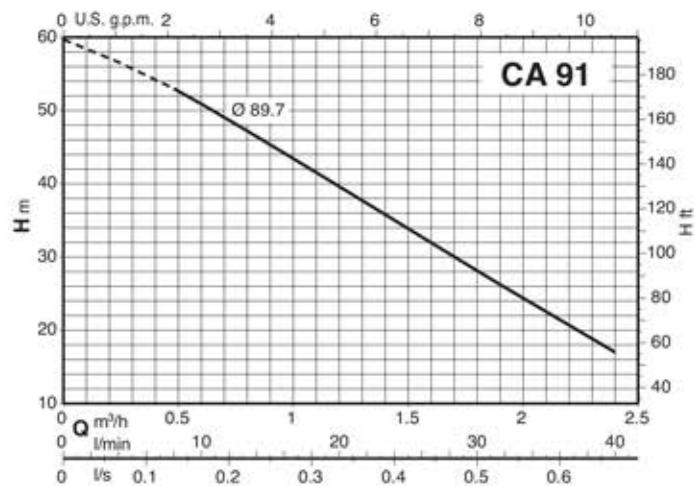
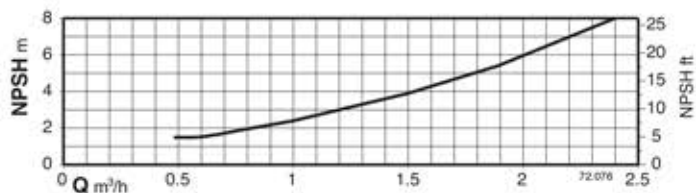
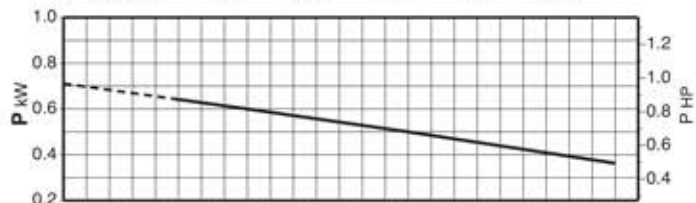
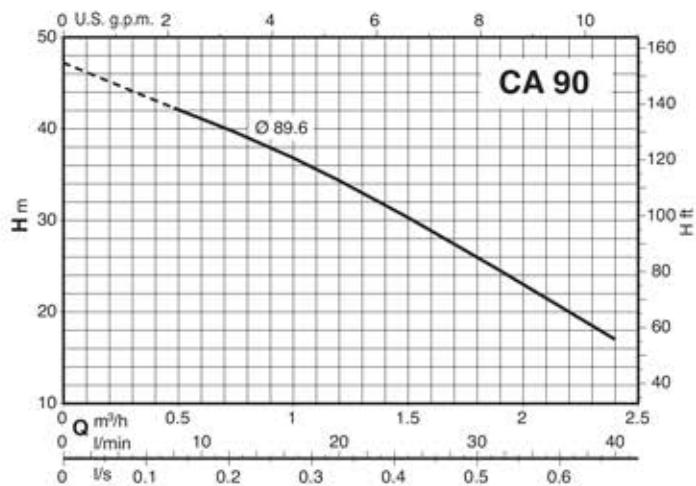
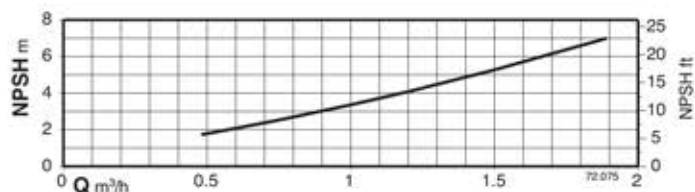
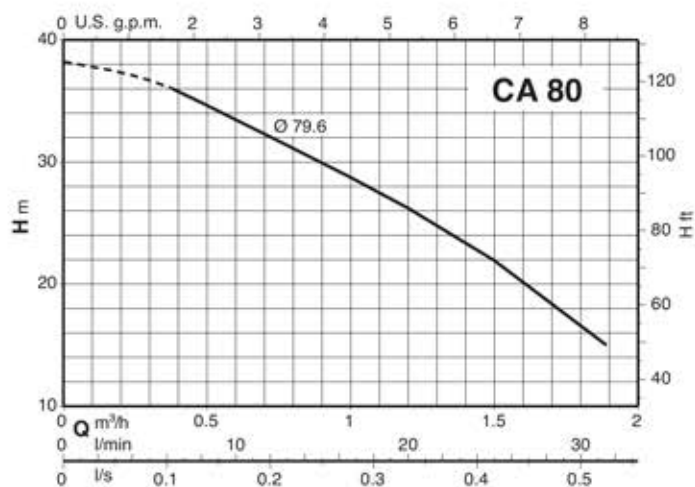
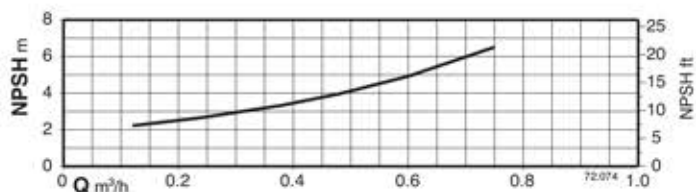
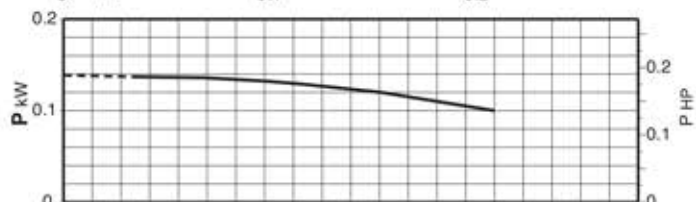
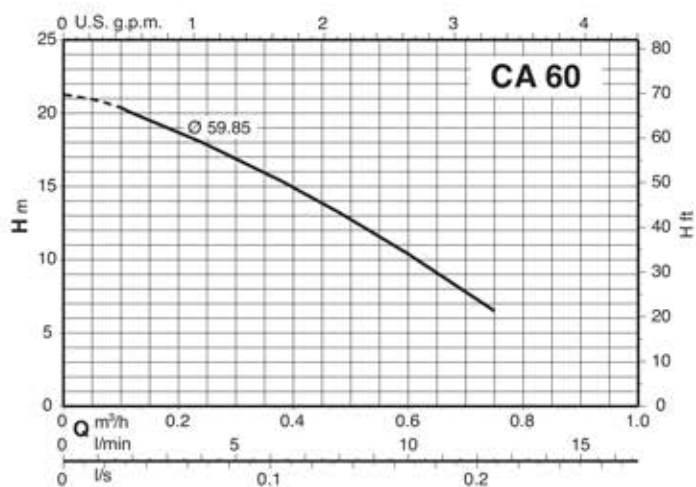
Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows 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.

Characteristic curves $n \approx 2900$ rpm



Performance $n \approx 2900$ rpm

| 3 ~ | 230 V 400 V | | 1 ~ | 230 V | | P ₁ | P ₂ | Q | | | | | | | | | | | | |
|----------------------|-------------|------------|------------------------|------------|------|----------------|----------------|--------|----|----|-------------------|------|------|------|------|-----|------|------|-----|-----|
| | A | A | | A | kW | | | | kW | HP | m ³ /h | 0,12 | 0,24 | 0,38 | 0,48 | 0,6 | 0,75 | 1 | 1,2 | 1,5 |
| | | | | | | | | l/min | 2 | 4 | 6,3 | 8 | 10 | 12,5 | 16 | 20 | 25 | 31,5 | 40 | |
| CA 60E B-CA 60E | 1,7 | 1 | CAM 60E B-CAM 60E | 1,6 | 0,26 | 0,15 | 0,2 | H m | 20 | 18 | 15,5 | 13 | 10,5 | 6,5 | | | | | | |
| CA 80E B-CA 80/A | 2,8 2,3 | 1,6 1,3 | CAM 80E B-CAM 80/A | 3,3 3,6 | 0,72 | 0,45 | 0,6 | | | | 36 | 35 | 33,5 | 31,5 | 29 | 26 | 22 | 15 | | |
| CA 90/A B-CA 90/A | 3 | 1,7 | CAM 90/A B-CAM 90/A | 4,5 | 0,9 | 0,55 | 0,75 | | | | | 42 | 41 | 40 | 37 | 34 | 30 | 25 | 17 | |
| CA 91/B B-CA 91/B | 3,7 | 2,2 | CAM 91/A B-CAM 91/A | 5,7 | 1,2 | 0,75 | 1 | | | | | 53 | 51 | 48 | 44 | 39 | 34 | 26,5 | 17 | |

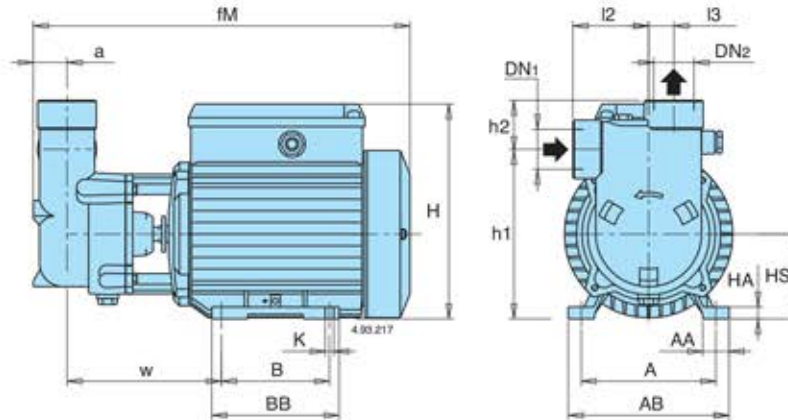
P₁ Maximum power input.

P₂ Rated motor power output.

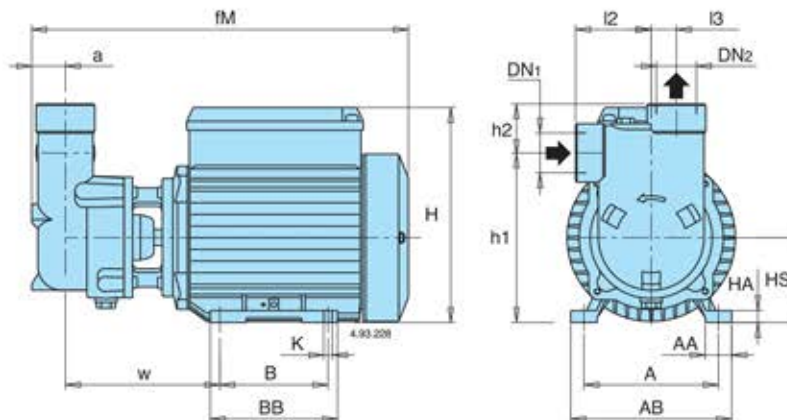
B-CA = Bronze construction.

H Total head in m.

Dimensions and weights



| TYPE | DN ₁ | DN ₂ | mm | | | | | | | | | | | | | | | | kg | | |
|-------------------|-----------------|-----------------|---------|----|-----|----|----|-----|-----|-----|----|-----|-----|----|---|----|----|-----|----|------|------|
| | | | ISO 228 | a | fM | HS | h2 | h1 | H | BB | B | AB | A | AA | K | I2 | I3 | w | HA | CA | B-CA |
| CA 60E - B-CA 60E | 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 80E | G 3/4 | G 3/4 | | 23 | 272 | 63 | 27 | 126 | 158 | 96 | 80 | 122 | 100 | 22 | 7 | 55 | 17 | 109 | 8 | 7,6 | - |
| CA 90/A | G 1 | G 1 | | 28 | 318 | 71 | 41 | 142 | 182 | 106 | 90 | 134 | 112 | 22 | 7 | 63 | 21 | 128 | 10 | 10,8 | - |
| CA 91/B | | | | 28 | 318 | 71 | 41 | 142 | 182 | 106 | 90 | 134 | 112 | 22 | 7 | 63 | 21 | 128 | 10 | 12,2 | - |



| TYPE | DN ₁ | DN ₂ | mm | | | | | | | | | | | | | | | | kg | | |
|-----------|-----------------|-----------------|---------|----|-----|----|----|-----|-----|-----|----|-----|-----|----|---|----|----|-----|----|------|--|
| | | | ISO 228 | a | fM | HS | h2 | h1 | H | BB | B | AB | A | AA | K | I2 | I3 | w | HA | B-CA | |
| B-CA 80/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/A | G 1 | G 1 | | 28 | 318 | 71 | 41 | 142 | 182 | 106 | 90 | 134 | 112 | 22 | 7 | 63 | 21 | 128 | 10 | 13,1 | |
| B-CA 91/B | | | | 28 | 318 | 71 | 41 | 142 | 182 | 106 | 90 | 134 | 112 | 22 | 7 | 63 | 21 | 128 | 10 | 14,7 | |



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 1.4104 EN 10088 (AISI 430) | Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316) |
| Mechanical seal | Carbon - Ceramic - NBR | |

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, 50 Hz ($n \approx 2900$ rpm).

CA: three-phase 230/400 V $\pm 10\%$.

CAM: single-phase 230 V $\pm 10\%$, 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 60034-30-1,
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.

Coverage chart $n \approx 2900$ rpm

