

Stainless steel centrifugal pumps  
for hygienic process applications, according to EHEDG



**Pomac** Pumps

The **CPC-*line*** is designed for applications in the pharmaceutical and food industry, with a strong focus on optimal cleanability, efficiency, low maintenance costs and a simple (dis)assembly.

The **CPC-*line*** is characterised by its elegant but robust and stable build, which makes the **CPC-*line*** extremely suited for all occurring production processes in the pharmaceutical and food processing industry.

## Ultra clean

All liquid contact parts of the CPC pumps are compliant with the relevant standards. The open impellers are provided with pressure relief holes, which at the same time ensure an optimal cleaning of the shaft seal and of the seal chamber. The impeller is 'dry' mounted to the shaft by means of "O"-rings. The applied "O"-ring constructions are designed to minimise the liquid contact and at the same time to provide an optimal cleaning of the contact faces.

## Efficiency

The **CPC-*line*** is designed with narrow gaps, whereas the eminently manufactured impellers ensure very favourable efficiencies.

Depending on the application range but always compliant with the hygienic standards the **CPC-*line*** can be executed with several options:

- Mechanical seal types and materials
- "O"-ring materials
- Surface roughness
- Drain constructions
- Heating jacket

## CPC-*line* HD

This is the high pressure version of the **CPC-*line***. This pump has been developed as a booster pump for high pressure systems to 40 bars. Its external dimensions are equal to the **CPC-*line***.

## Materials

All parts that come into contact with the pumped liquid are made of stainless steel, Materials nr. 1.4404. At request these parts can also be made of Materials nr. 1.4435 or Materials nr. 2.4602 (Hastelloy C22).

## Drives

KAM and KAV are supplied with B3/B5 foot and flange mounted motors according to IEC, with balanced stainless steel stub shaft.

KAC is supplied with B5 flange mounted motors according to IEC with balanced stainless steel stub shaft (only available upto motor size IEC 132).

Motors can be supplied in all available efficiency, isolation, protection and voltage classes. Also available in ATEX compliant version and in noise-reduced execution.

IG can be supplied with either electric, pneumatic or combustion motors.

IGH is equipped with hydraulic motor.





## Applications

### Food Industry

- **Dairies**  
Milk, skimmed milk, butter milk, cheese milk, raw milk, cream, animal fats
- **Beverages**  
Fruit juices, soft drinks, beer, wine, spirits, liqueur, sugar solutions, syrups, water, concentrates, yeast
- **Foodstuffs**  
Animal and vegetable oils and fats, soups, sauces, spices, brine, water
- **Chocolate and sweets**  
Milk products, oils and fats, sugar solutions, syrups, flavouring, liqueur, spirits
- **Sugar**  
Syrups, sugar solutions, invert sugar
- **CIP & SIP cleaning processes**  
Sodium hydroxide, nitric acid, hot and cold water, other specific cleaning liquids



### Pharmaceutical Industry and Biotechnology

- Ultra filtration
- Reactors
- Tablets and coating
- Process filtration

#### Typical pharmaceutical applications

- Sugar solutions, syrups
- Alcohols, solvents, acids
- Distilled water, emulsions
- Nutrient solutions, suspensions





## Shaft sealing systems

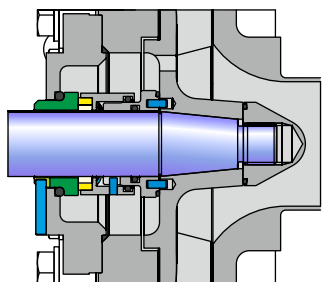
According to the hygienic standards of EHEDG the pumps can be supplied with several types of shaft sealing.

The mechanical seals are available in the following materials combinations:

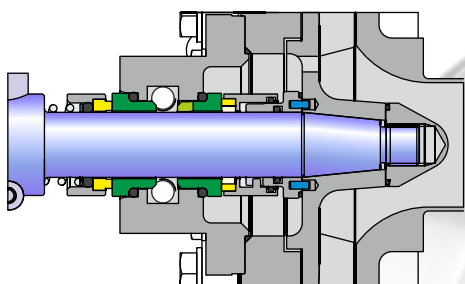
- carbon to CrMo-steel
- carbon to silicon carbide
- carbon to ceramic
- hard metal to hard metal
- silicon carbide top silicon carbide
- Tungsten carbide to tungsten carbide

The mechanical seals are available with EPDM, Viton, Perbunan and Teflon "O"-rings.

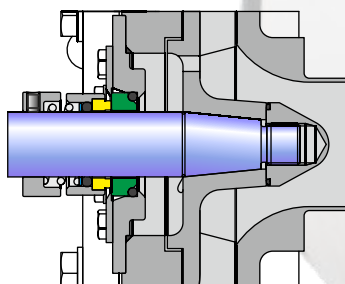
All materials comply with FDA - CFR 21 or the equivalent european standards.



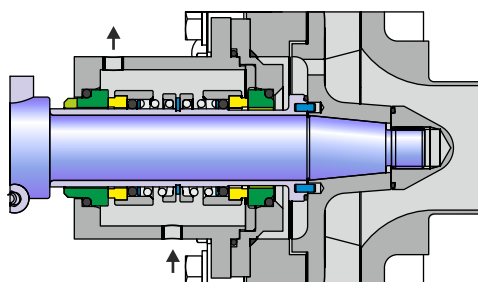
1. Internal mechanical seal



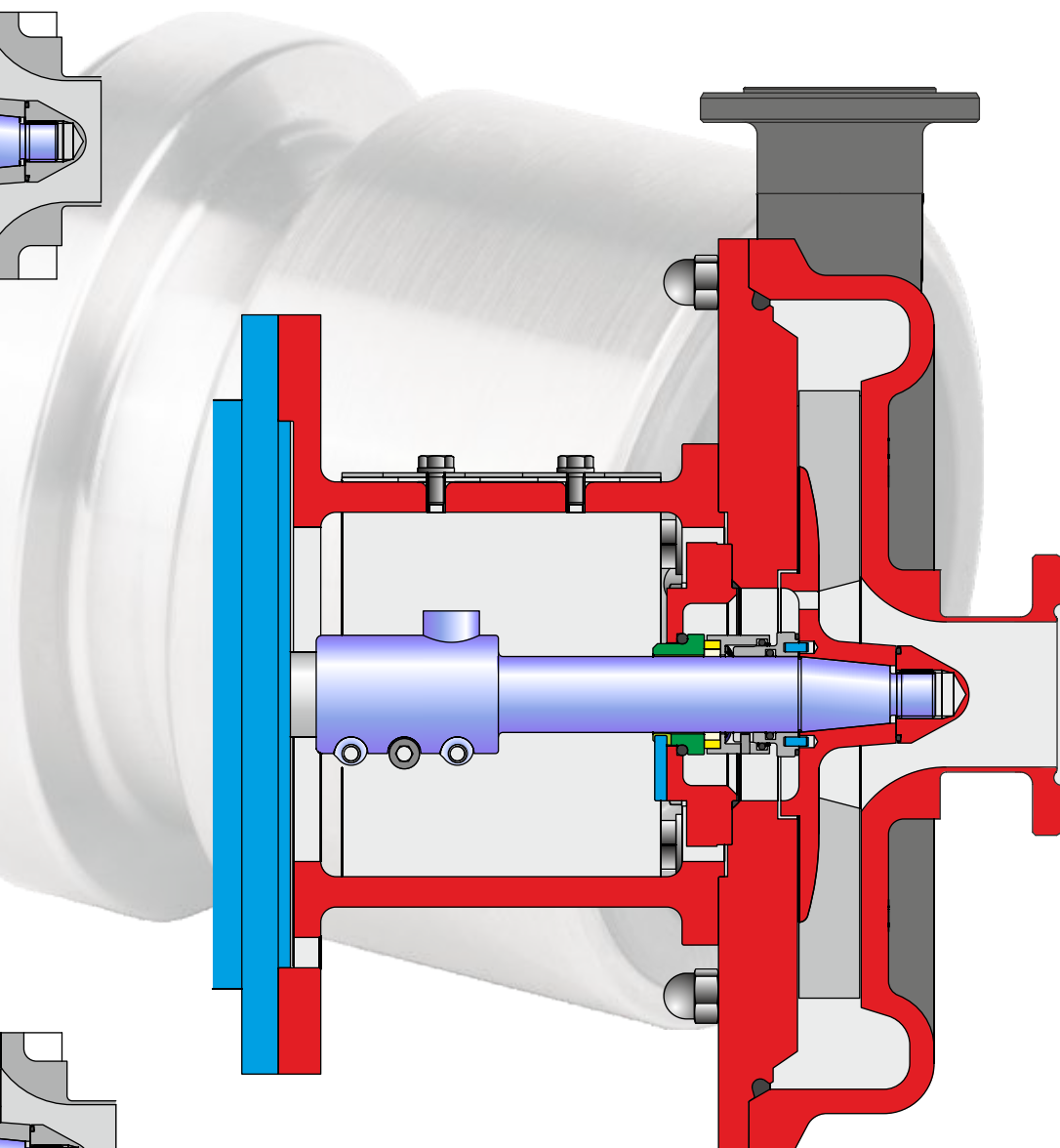
2. Internal mechanical seal with quench



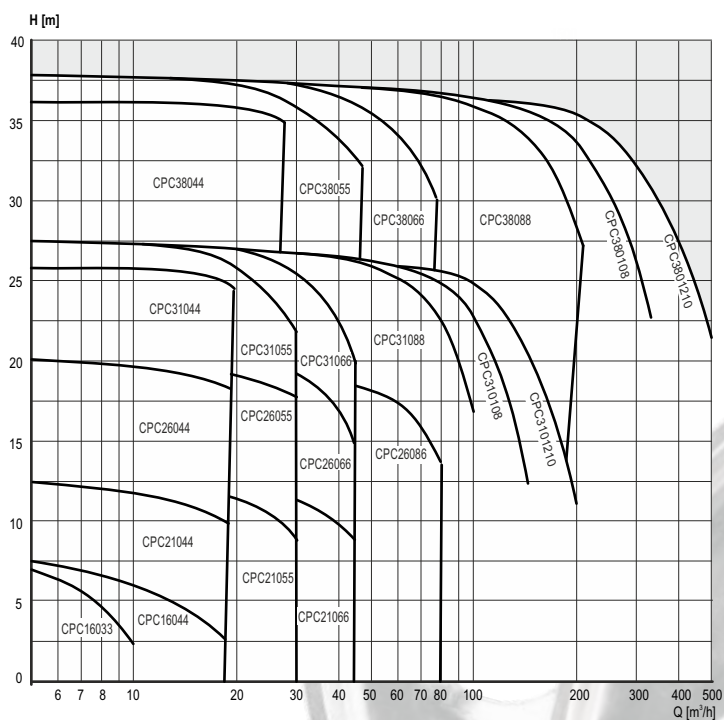
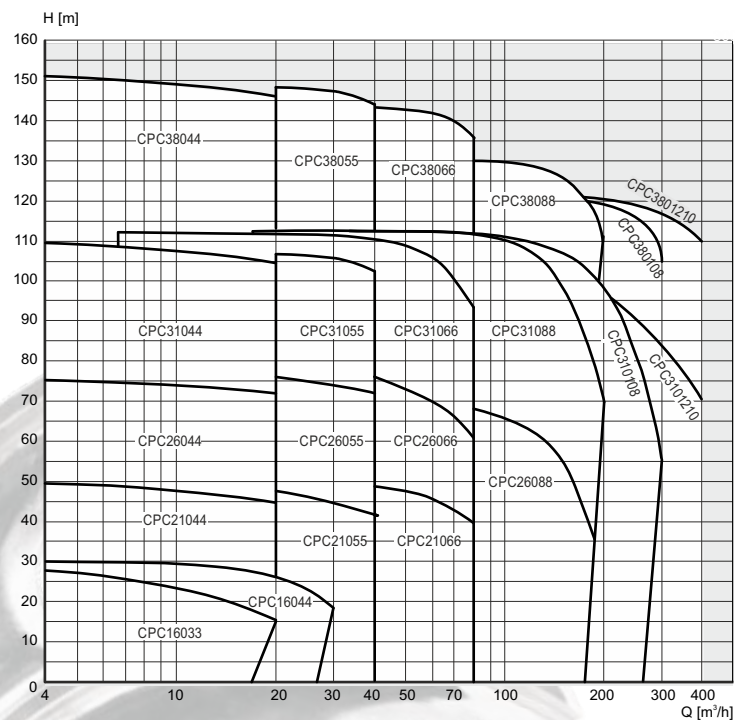
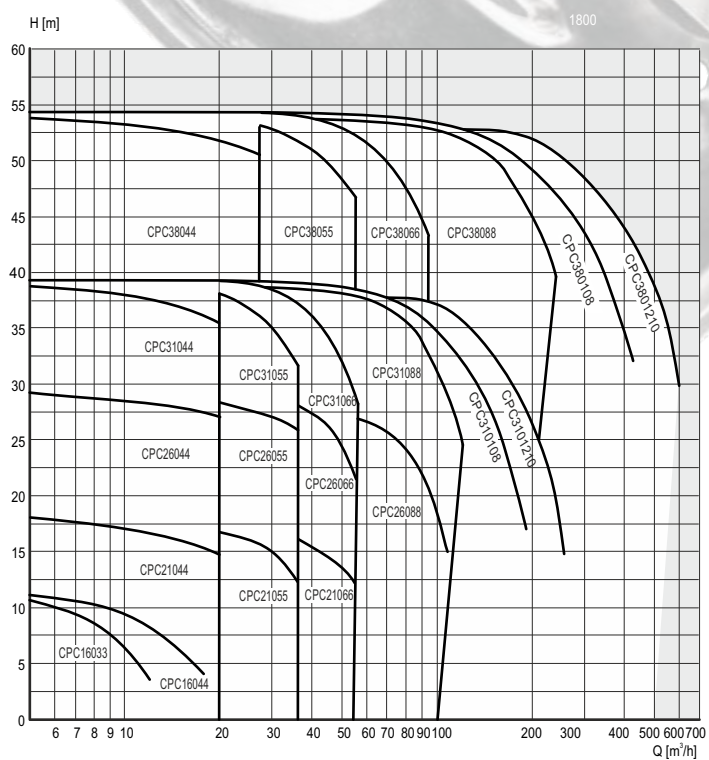
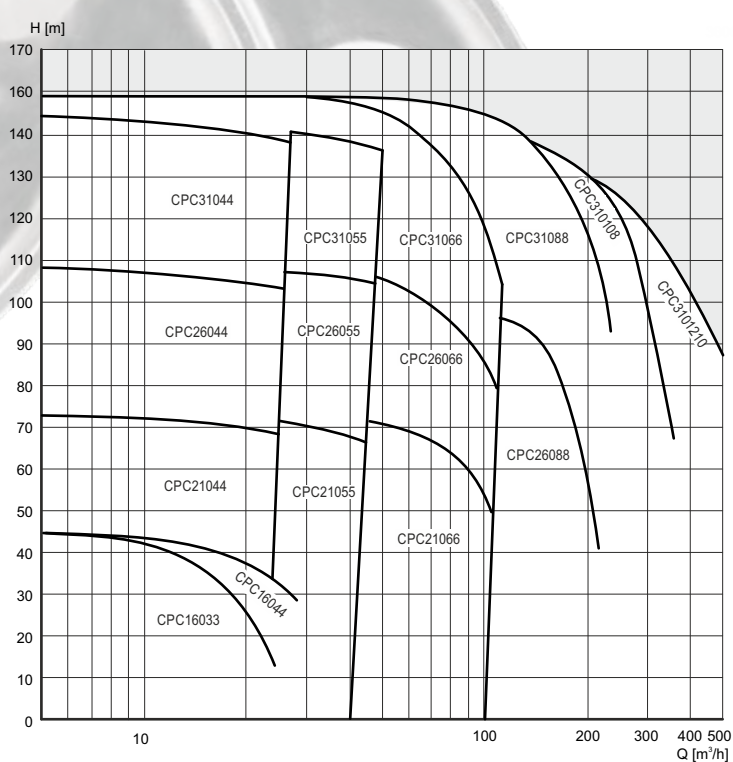
3. External mechanical seal



4. External mechanical seal with flush



## Curves

1500 min<sup>-1</sup>3000 min<sup>-1</sup>1800 min<sup>-1</sup>3600 min<sup>-1</sup>





## Dimensions

### Pump

| Size    | d1   | d2   | d alt.  | d4  | NW1 | NW2 | b   | e   | f   | L1  |
|---------|------|------|---------|-----|-----|-----|-----|-----|-----|-----|
| 16033   | 1,5" | 1,5" |         | 200 | 40  | 40  | 68  | 148 | 67  | 98  |
| 16044   | 2"   | 2"   | 1,5"    | 200 | 50  | 50  | 68  | 148 | 69  | 100 |
| 21044   | 2"   | 2"   |         | 250 | 50  | 50  | 82  | 168 | 75  | 115 |
| 21055   | 2,5" | 2,5" | 2"      | 250 | 65  | 65  | 82  | 170 | 80  | 120 |
| 21066   | 3"   | 3"   | 2",2,5" | 250 | 80  | 80  | 82  | 170 | 80  | 120 |
| 26044   | 2"   | 2"   |         | 300 | 50  | 50  | 107 | 198 | 75  | 115 |
| 26055   | 2,5" | 2,5" | 2"      | 300 | 65  | 65  | 107 | 200 | 80  | 120 |
| 26066   | 3"   | 3"   | 2",2,5" | 300 | 80  | 80  | 107 | 200 | 80  | 120 |
| 26086   | 4"   | 4"   | 3"      | 300 | 100 | 80  | 100 | 200 | 106 | 161 |
| 31044   | 2"   | 2"   |         | 350 | 50  | 50  | 133 | 222 | 75  | 115 |
| 31055   | 2,5" | 2,5" | 2"      | 350 | 65  | 65  | 133 | 225 | 80  | 120 |
| 31066   | 3"   | 3"   | 2",2,5" | 350 | 80  | 80  | 133 | 225 | 80  | 120 |
| 31088   | 4"   | 4"   | 3"      | 350 | 100 | 100 | 120 | 225 | 106 | 161 |
| 310108  | 5"   | 4"   | 3"      | 350 | 125 | 100 | 120 | 225 | 98  | 153 |
| 3101210 | 6"   | 5"   | 3"      | 350 | 150 | 125 | 120 | 225 | 95  | 157 |
| 38044   | 2"   | 2"   |         | 425 | 50  | 50  | 168 | 275 | 75  | 117 |
| 38055   | 2,5" | 2,5" |         | 425 | 65  | 65  | 168 | 275 | 80  | 122 |
| 38066   | 3"   | 3"   |         | 425 | 80  | 80  | 168 | 275 | 80  | 122 |
| 38088   | 4"   | 4"   |         | 425 | 100 | 100 | 151 | 275 | 101 | 162 |
| 380108  | 5"   | 4"   |         | 425 | 125 | 100 | 151 | 275 | 101 | 162 |
| 3801210 | 6"   | 5"   |         | 425 | 150 | 125 | 151 | 275 | 101 | 162 |

## Connections

All pump types can be supplied with:

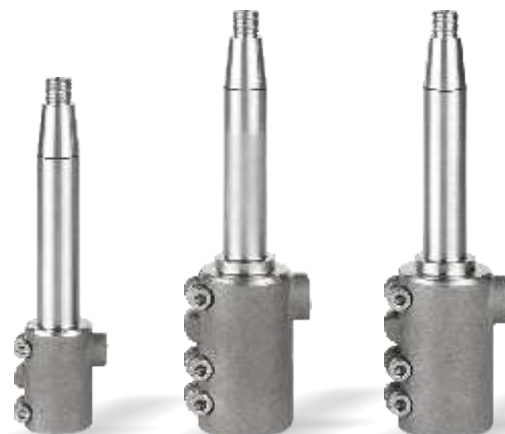
- Couplings acc. to DIN 11851, DIN 11864-1, SMS, etc.
- Tube connections acc. to NEN 1472 and DIN 1850
- Flange connections acc. to EN 1092-1, DIN 11864-2
- Tri-clamp acc. to ISO 2852, DIN 32676 and DIN 11864-3
- Connections according to client specifications.

## Configurations

The pumps can be supplied with the following, entirely interchangeable, options:

- CPC-line KAM** Pump with close coupled stainless steel encased motor and fitted with adjustable stainless steel legs.
- CPC-line KAC** Pump with close coupled motor, mounted on a stainless steel bracket.
- CPC-line KAV** Pump with close coupled motor, mounted on the motor feet.
- CPC-line IG** Pump fitted to a bearing housing.
- CPC-line IGH** Pump fitted to a stainless steel bearing housing, especially suited for a direct coupled hydraulic drive.

| Bearing bracket IG |    |    |     |     |     |    |      |     |     |      |     |     |
|--------------------|----|----|-----|-----|-----|----|------|-----|-----|------|-----|-----|
| c2                 | d3 | o  | n   | L5  | m7  | m8 | m9   | m10 | m11 | m12  | m13 | m14 |
| 100                | 24 | 30 | 168 | 295 | 135 | 0  | 266  | 50  |     | 19j6 | 40  | 130 |
|                    |    |    |     |     |     |    | 278  |     |     |      |     |     |
| 100                | 24 | 30 | 168 | 295 | 135 | 0  | 330  | 56  |     | 24j6 | 50  | 153 |
|                    |    |    |     |     |     |    | 330  |     |     |      |     |     |
|                    |    |    |     |     |     |    | 355  |     |     |      |     |     |
| 100                | 24 | 30 | 168 | 295 | 145 | 0  | 420  | 63  |     | 28j6 | 60  | 172 |
|                    |    |    |     |     |     |    | 440  |     |     |      |     |     |
|                    |    |    |     |     |     |    | 376  |     |     |      |     |     |
|                    |    |    |     |     |     |    |      |     |     |      |     |     |
| 112                | 24 | 30 | 168 | 295 | 145 | 0  | 384  | 70  |     | 28j6 | 70  | 174 |
|                    |    |    |     |     |     |    | 411  |     |     |      |     |     |
| 132                | 24 | 30 | 168 | 295 | 145 | 20 | 463  | 89  |     | 38k6 | 80  | 182 |
|                    |    |    |     |     |     |    | 501  |     |     |      |     | 220 |
|                    |    |    |     |     |     |    |      |     |     |      |     |     |
|                    |    |    |     |     |     |    |      |     |     |      |     |     |
| 160                | 38 | 50 | 258 | 399 | 145 | 55 | 612  | 108 |     | 42k6 | 110 | 256 |
|                    |    |    |     |     |     |    | 656  |     |     |      |     | 300 |
| 180                | 38 | 50 | 258 | 399 | 145 | 55 | 705  | 121 |     | 48k6 | 110 | 320 |
|                    |    |    |     |     |     |    |      |     |     |      |     |     |
| 200                | 38 | 50 | 258 | 399 | 145 | 65 | 850  | 133 |     | 55m6 | 110 | 380 |
|                    |    |    |     |     |     |    | 825  |     |     |      |     |     |
| 225                | 38 | 50 | 258 | 399 | 145 | 65 | 930  | 149 | 345 | 55m6 | 110 | 380 |
|                    |    |    |     |     |     | 95 | 960  |     |     | 60m6 | 140 |     |
|                    |    |    |     |     |     | 95 | 960  |     |     |      | 140 |     |
|                    |    |    |     |     |     |    | 865  |     | 310 |      |     | 355 |
|                    |    |    |     |     |     |    | 890  |     |     |      |     | 380 |
|                    |    |    |     |     | 145 | 95 | 1010 | 168 |     | 60m6 | 140 | 446 |
|                    |    |    |     |     |     |    | 1040 |     |     | 65m6 |     |     |
|                    |    |    |     |     |     |    | 1040 |     |     |      |     |     |
|                    |    |    |     |     |     |    | 965  |     |     |      |     |     |
|                    |    |    |     |     | 145 | 95 | 1135 | 190 |     | 65m6 | 140 | 520 |
|                    |    |    |     |     |     |    | 1135 |     |     | 75m6 |     |     |
|                    |    |    |     |     |     |    | 1040 |     |     |      |     |     |
|                    |    |    |     |     |     |    | 1135 |     |     | 65m6 |     |     |
|                    |    |    |     |     |     |    | 1135 |     |     | 75m6 |     |     |
|                    |    |    |     |     |     |    | 1040 |     |     |      |     |     |



Besides the CPC-line pump assortment in this brochure the Pomac delivery program comprises an extensive choice of hygienic pumps.

More detailed information on these pump types is available and will be sent to you on request.

**CPC-ZA**  
**Self-priming stainless steel centrifugal pump**

Q max = 200 m<sup>3</sup>/h  
H max = 90 m



**SP-LR**  
**Self-priming liquid ring pump**

Q max = 60 m<sup>3</sup>/h  
H max = 50 m



**PLP**  
**Lobe pump**

Q max = 110 m<sup>3</sup>/h  
P max = 25 bar



**PDSP**  
**Double screw pump**

Q max = 90 m<sup>3</sup>/h  
P max = 16 bar



**CP-AGF**  
**Pump with channel impeller**

Q max = 1000 m<sup>3</sup>/h  
H max = 25 m



## Pomac Pumps

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