

## Sanitary Centrifugal Pump

The HCP series of high quality sanitary pumps are extensively used throughout the food, beverage, pharmaceutical and general industries, the pumps can be supplied in different configurations, i.e. with or without stainless steel motor shroud, single or double mechanical seal, standard or special motors including stainless steel with IP67 rating, pumps are supplied in accordance with European sanitary standards.



**Bloc Pump In Standard Design**

### Application

Due to the choice of materials and its design, HCP is appropriate for applications requiring a high level of hygiene, gentle handling of the product and resistance to chemical agents.

It is particularly suitable as main process pump in the dairy, beverage, pharmaceutical and cosmetic industries.

### Design and features

The HCP is a range of close-coupled centrifugal pumps with hygienic design, compact and highly efficient. It is made of a cold-formed stainless steel casing, impeller, mechanical seal, pump cover, lantern and shaft, connected to the motor shaft by mechanical compression.

The motor complies with the IEC standards, it is protected with a stainless steel shroud and provided with the height adjustable hygienic designed legs.

The pump is EHEDG certified, it is especially designed for CIP/SIP without disassembly.

### Mechanical seal

The HCP pump is provided with a internal single mechanical seal. The seal is balanced and has a hygienic design. As standard, the stationary part is in carbon and the rotary part is in silicon carbide, the gaskets are in EPDM. However, when required, both parts of the mechanical seal can be in silicon carbide as well as the gaskets can be in FPM. There is also an option of assembly of a double mechanical seal made of two identical seals. It helps to upgrade a pump with single seal and simplifies its maintenance.

### Technical specifications

#### Materials

Parts in contact with the product Stainless steel AISI 316L (1.4404)

Other steel parts Stainless steel AISI 304 (1.4301)

Gaskets in contact with the product EPDM

#### Mechanical seal

Rotary part Silicon carbide (SiC)

Stationary part Carbon (C)

Gaskets EPDM

#### Surface finish

External Matt

Internal Bright polish  $Ra < 0,8 \mu m$

#### Connections

DIN 11851 (standard)

Aseptic flange DIN 11864, CLAMP, SMS

(other connections available on request)

#### Operating limits

Nominal pressure 1600 kPa (16 bar) 232 PSI

Temperature range  $-10^{\circ}C$  to  $+120^{\circ}C$   $14^{\circ}F$  to  $248^{\circ}F$

$+140^{\circ}C$  (SIP, max. 30 min.)  $284^{\circ}F$

Maximum flow  $220 m^3/h$  968 US GPM

Maximum differential head 140 m 459 ft

Maximum speed 3600 rpm

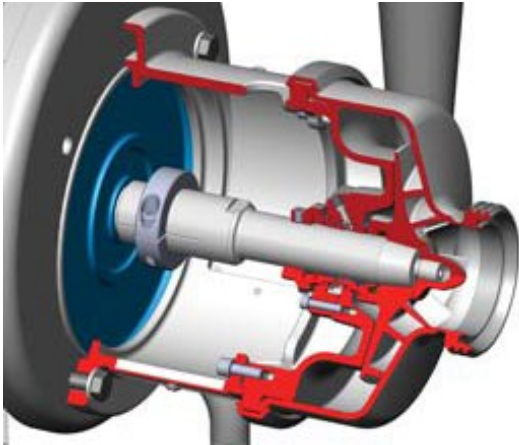


**Self Priming Bloc Pump**



**Open Impeller Design**

# Food & Beverage Pump



**Stub shaft design, suitable for standard IEC**



**New Improved Impeller Design**



## **Motor**

Three phase induction motor with B5 flange and B3 legs, in compliance with the IEC standards,  
2 poles = 3000/3600 rpm, IE-2 efficiency class, IP 55 protection and F-class insulation.

3 phases, 50 Hz, 220-240 V  $\Delta$  / 380-420 V Y,  $\leq 4$  kW

3 phases, 50 Hz 380-420 V  $\Delta$  / 660-690 V Y,  $\geq 5,5$  kW

## **Options**

Pump casing with drain port.

Pump casing with heating chamber.

Different types of connections.

SiC/SiC mechanical seal.

Double mechanical seal.

Seal flush

FPM gaskets.

Motor with other voltages, frequencies and protection classes.

Motor for explosive atmospheres or with enhanced safety level.



**Pump With Optional SS Motor Shroud**

Available from:

Email: [Sales@doylepump.com.au](mailto:Sales@doylepump.com.au)