I Application

Due to the choice of materials and its design, PROLAC 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.

I Design and features

PROLAC 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.

I Mechanical seal

The PROLAC HCP pump is provided with an 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.
I 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<0,8μm

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°C to +120 °C 14 °F to 248 °F
+140°C (SIP, max. 30 min.) 284 °F
Maximum flow: 220 m³/h 968 US GPM
Maximum differential head: 140 m 459 ft
Maximum speed: 3600 rpm

I Motor

Triphasic 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 Δ / 380-420 V Y, ≤ 4 kW
3 phases, 50 Hz 380-420 V Δ / 660-690 V Y, ≥ 5,5 kW

I Options

Pump casing with drain port.
Pump casing with heating chamber.
Different types of connections.
SiC/SiC mechanical seal.
Double mechanical seal.
FPM gaskets.
Motor with other voltages, frequencies and protection classes.
Motor for explosive atmospheres or with enhanced safety level.
# Dimensions

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(1) 4-pole motor
The information contained in this brochure is for guidance only. We reserve the right to modify any material or feature without notice in advance. For further information, please consult our web site. www.inoxpa.com

I Performance charts

50 Hz

1450 rpm

2900 rpm

60 Hz

1750 rpm

3500 rpm