



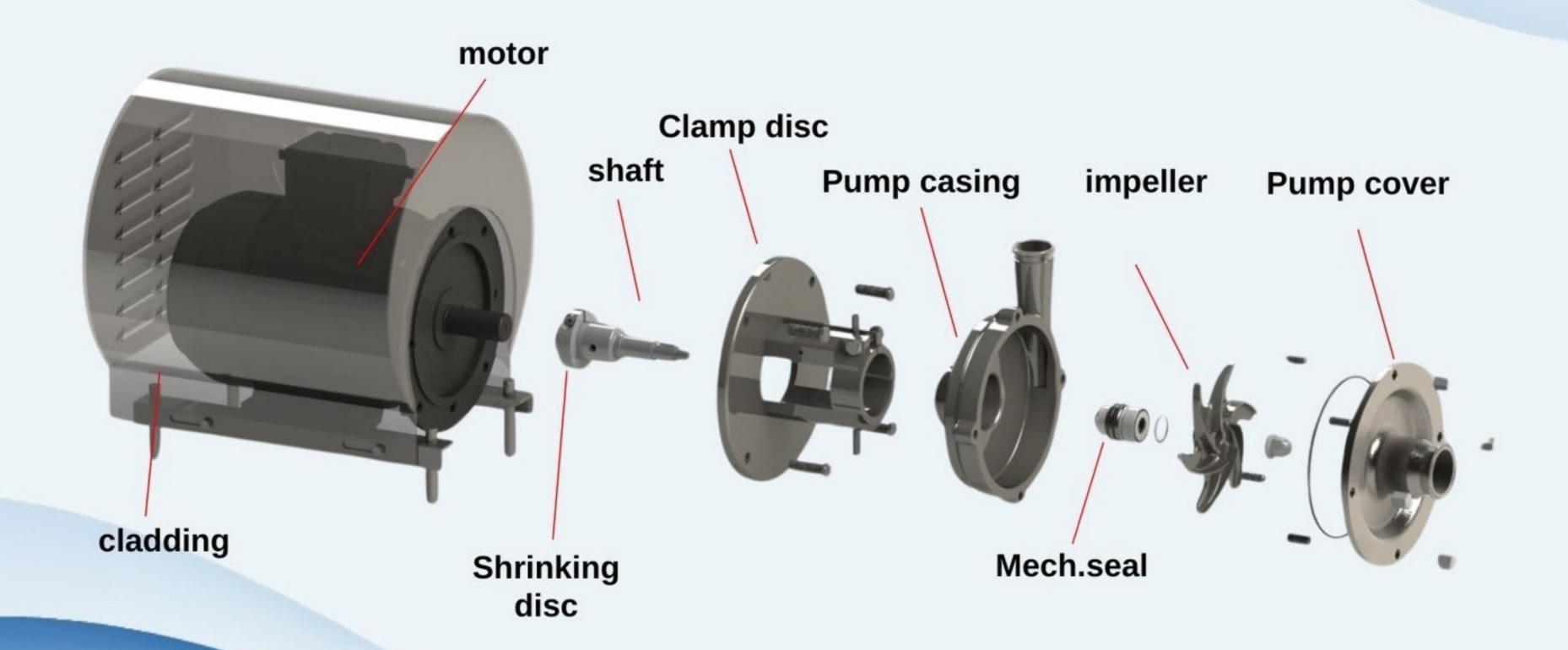
Centrifugal Pump – HPC series



Open impeller design, 316L material, the precision casting pump body ensures the pump running stably.



Explosive view

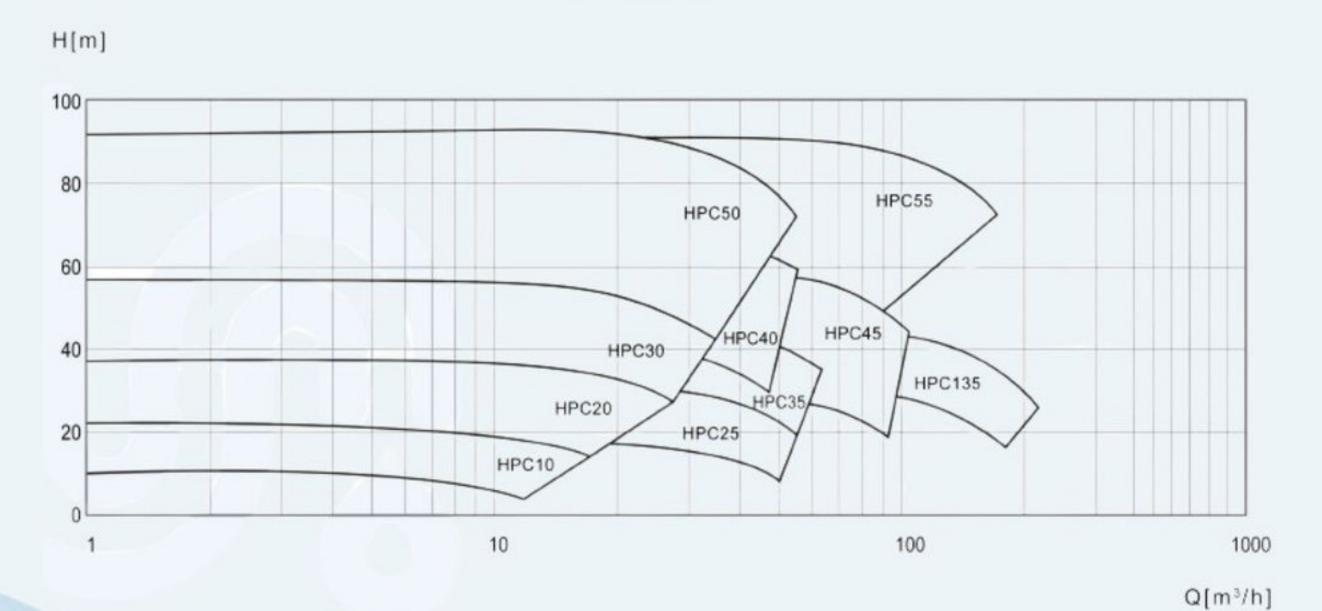






Performance Curve

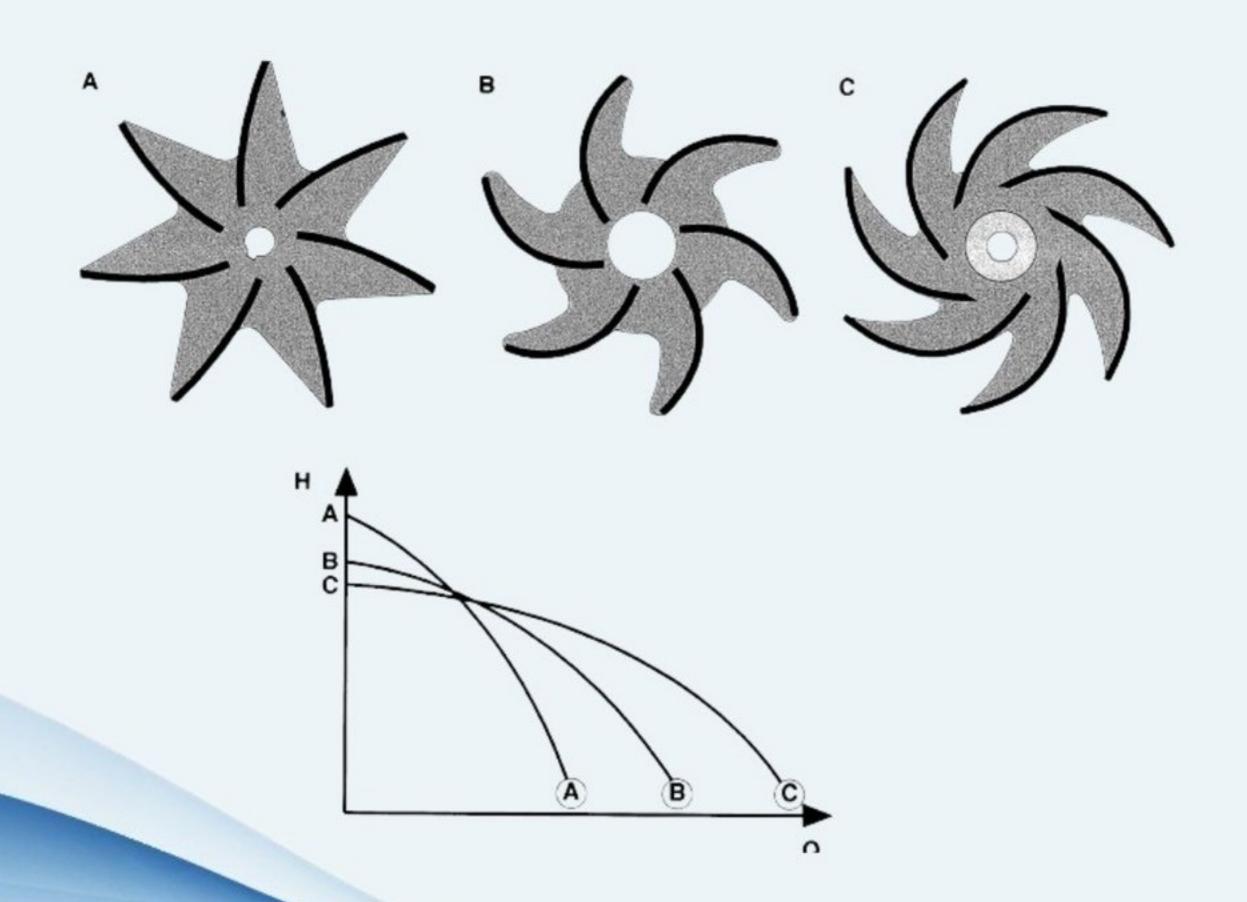
HPC n=2900min-1





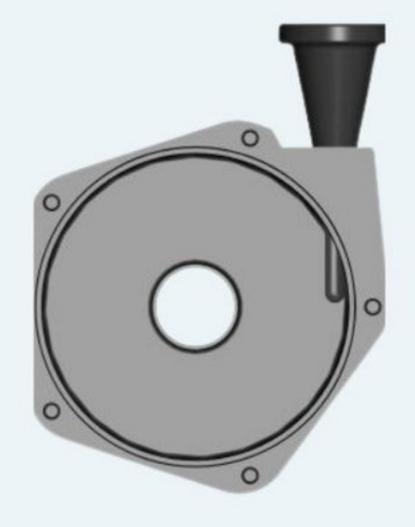


The impact of different impeller designs on pump performance





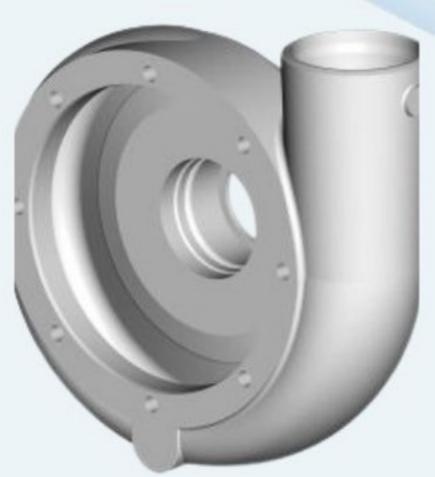












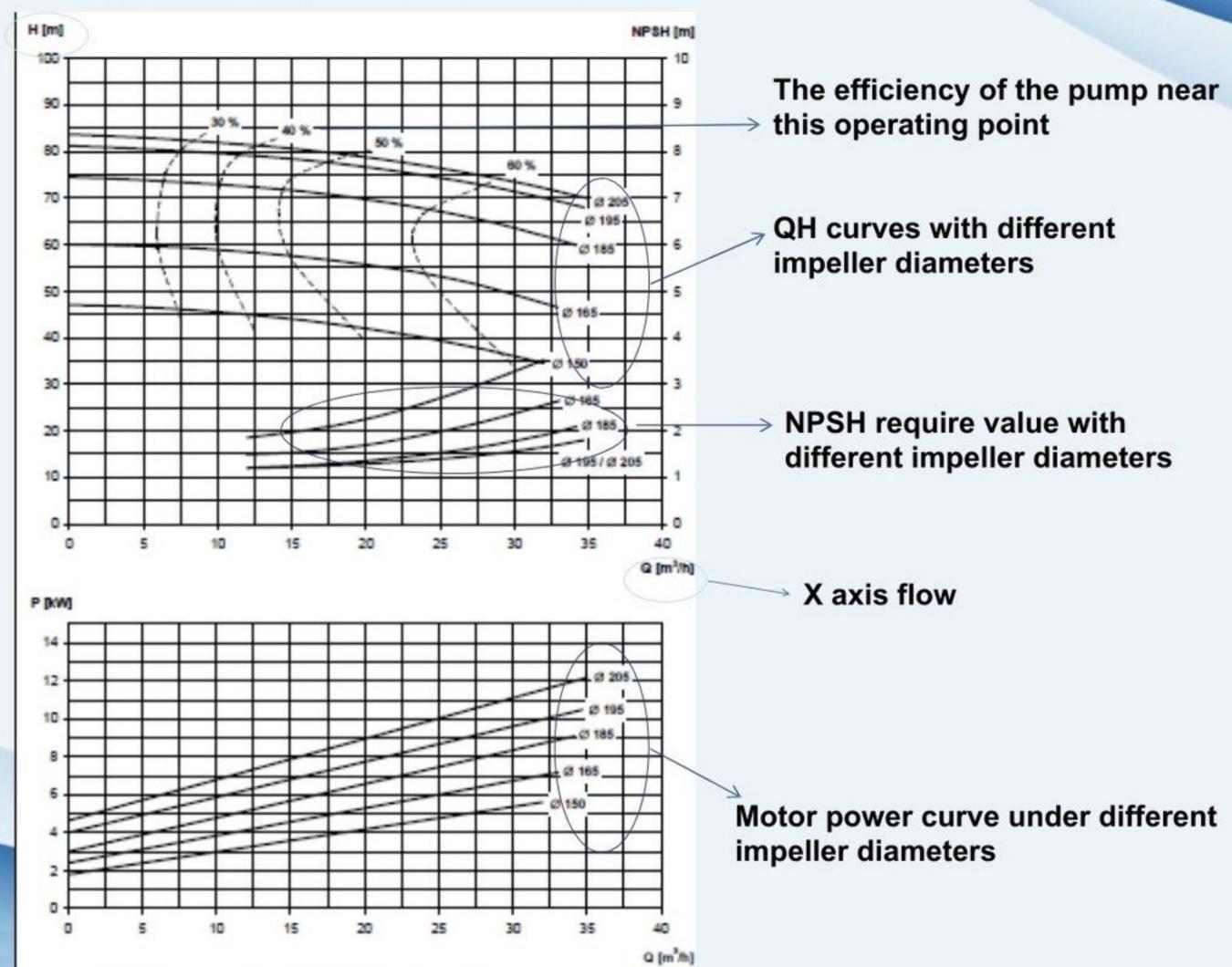






Performance Curve

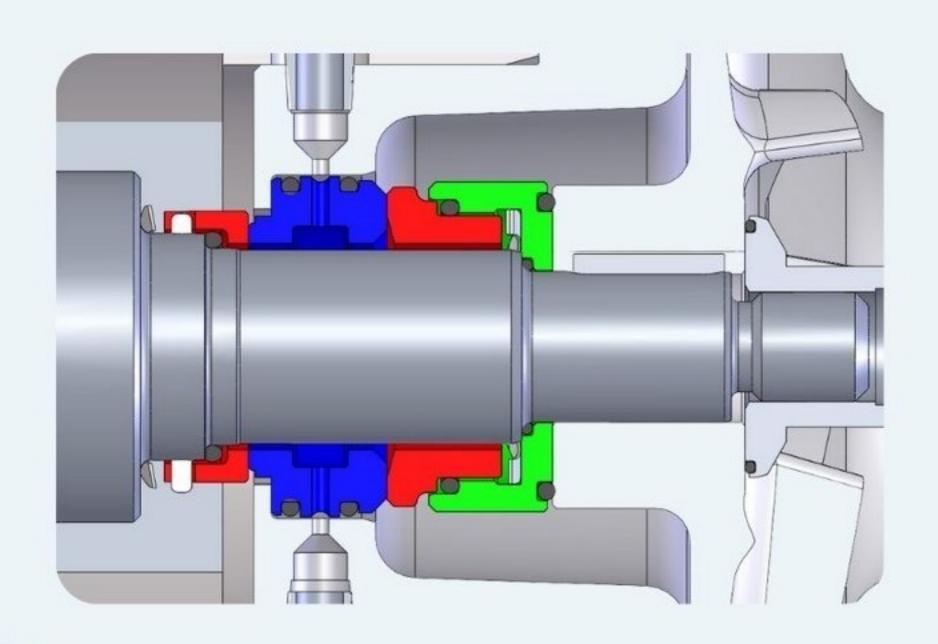


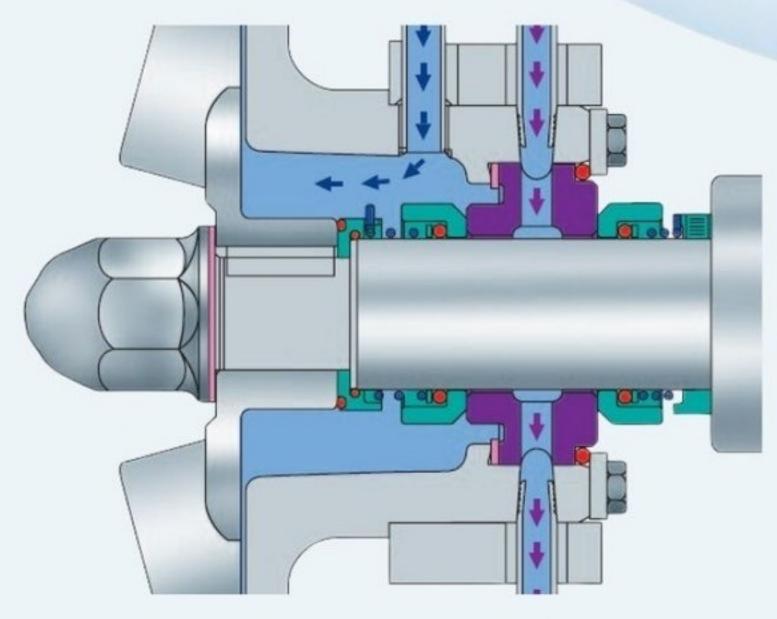






Real hygienic seal design





Hyperflow

The spring doesn't contact the product, hygienic

Fristam

The spring contact the product, not hygienic





Real hygienic seal design

There is a risk
of cleaning
when springs
come into
contact with
materials
(Extracted from
EHEDG
machine
sealing group
literature)

The principle of mechanical seals are two seal faces axially pressed together face to face. One seal face (C in Figure 2) is stationary, fixed in the housing which the shaft is going through. The other seal face (B in Figure 2) is attached on the rotating shaft. The rotating seal face is pressed towards the stationary seal face by the spring (F in Figure 2) and by the hydraulic load from the product pressure. Note that this is only to describe a simple mechanical seal design; the design presented in Figure 2 is not applicable for hygienic applications.

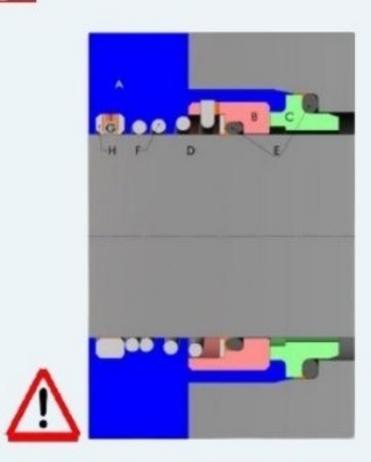


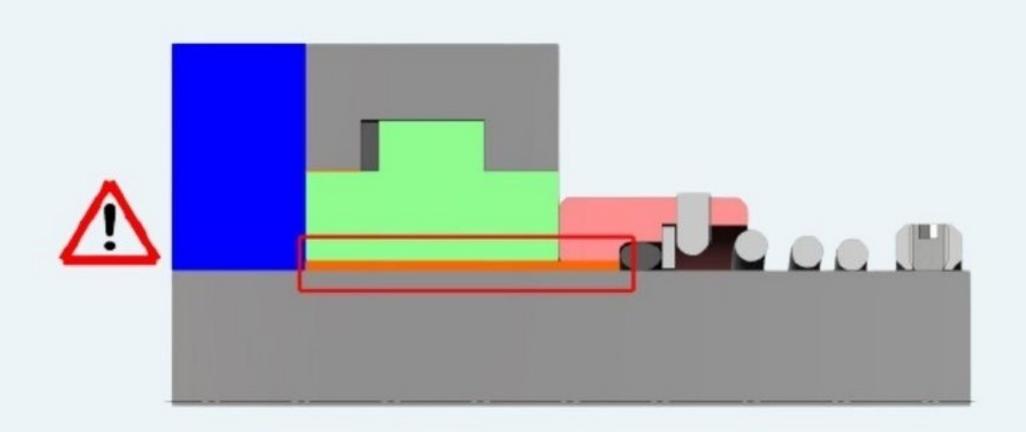
Figure 2.Simple Mechanical seal design, Not hygienic!

A:Product area, B:Rotating seal face, C:Stationary seal face, D:Rotating shaft, E:Secondary seals, F:Spring, G:Set screw, H:Stop ring





Real hygienic seal design



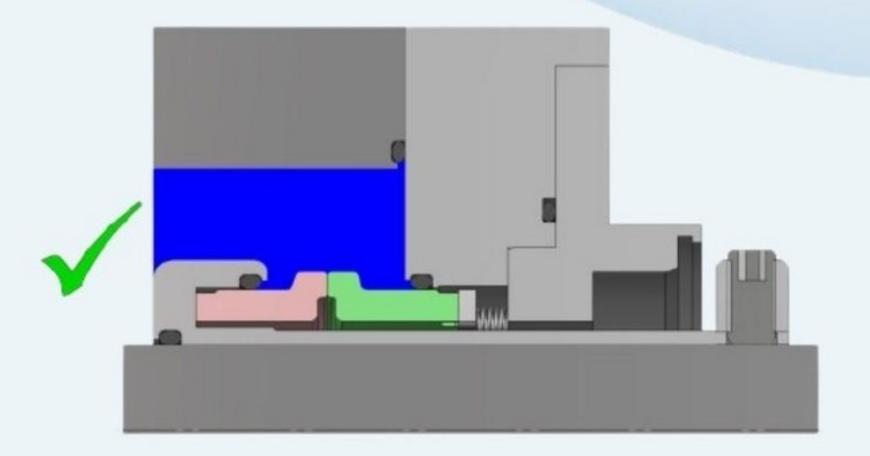


Figure 8.Outboard seal with dead end, not possible to clean. Not hygienic!

Figure 9.Mechanical seal in the product flow



Structure advantage:

 More in line with the sanitary requirements, HPC series pumps adopt the packaged mech. Seal, the spring does not touch the fluid, to avoid the risk of unclean spring cleaning.



traditional Mech.seal



HPC Mech.seal
Packaged mech.seal

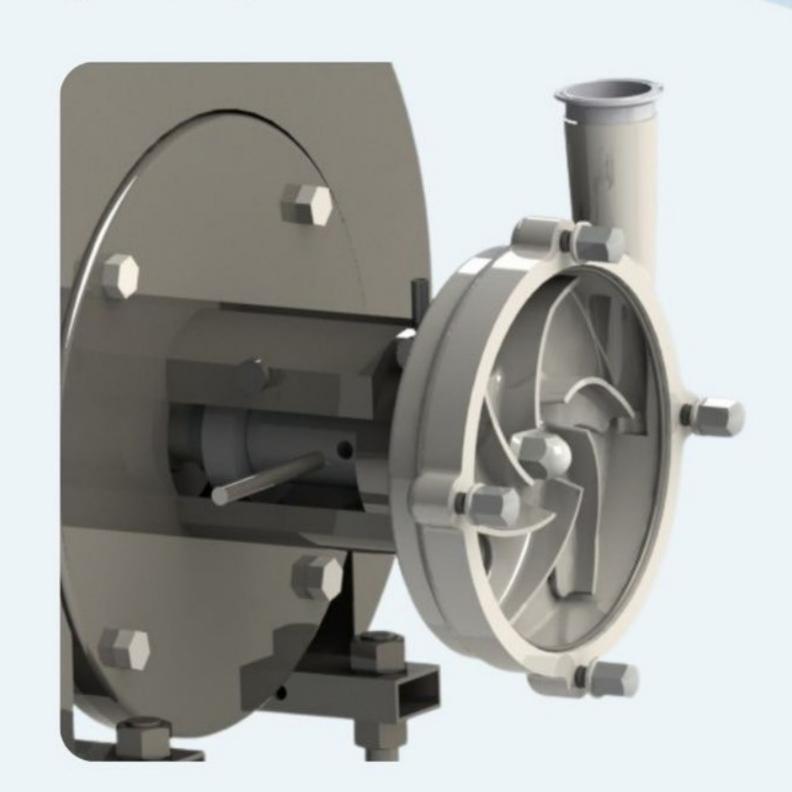




Easy assembly design



The hole make it easy for mounting/ dismounting the impeller nut





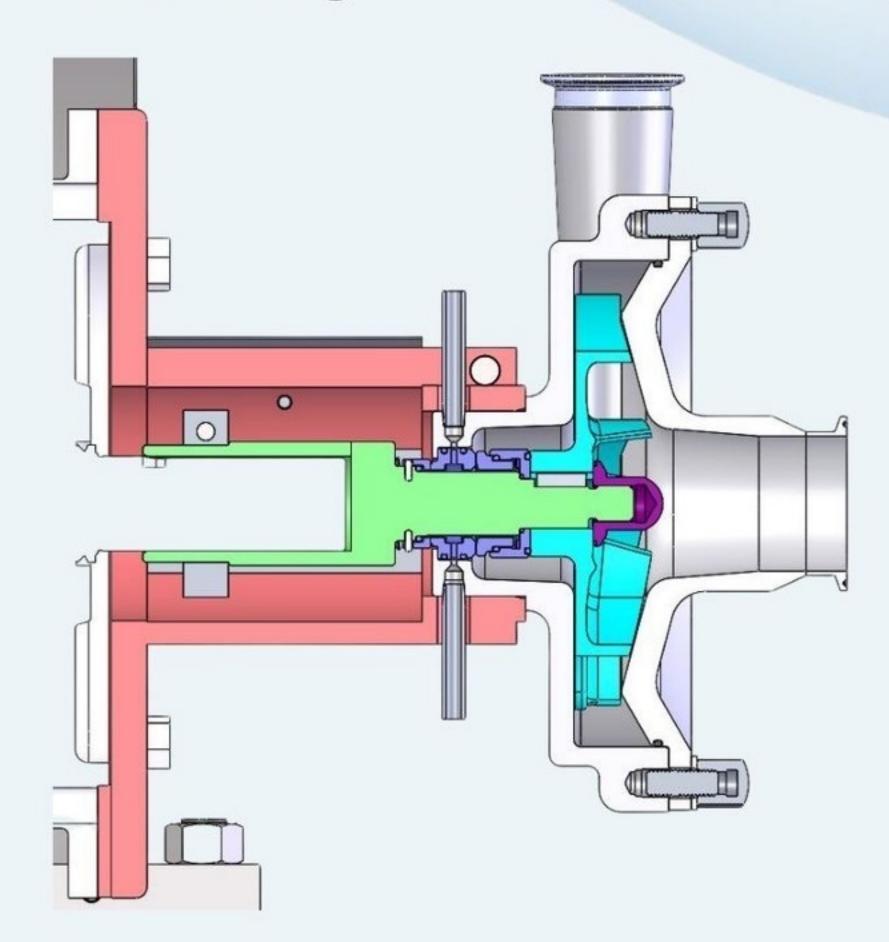


Easy to maintain design

easy to replacement seals

Unnecessary to dismantle pump casing

Unnecessary to adjust to gap between impeller and pump casing







Applications in the pharmaceutical industry











Application in dairy food



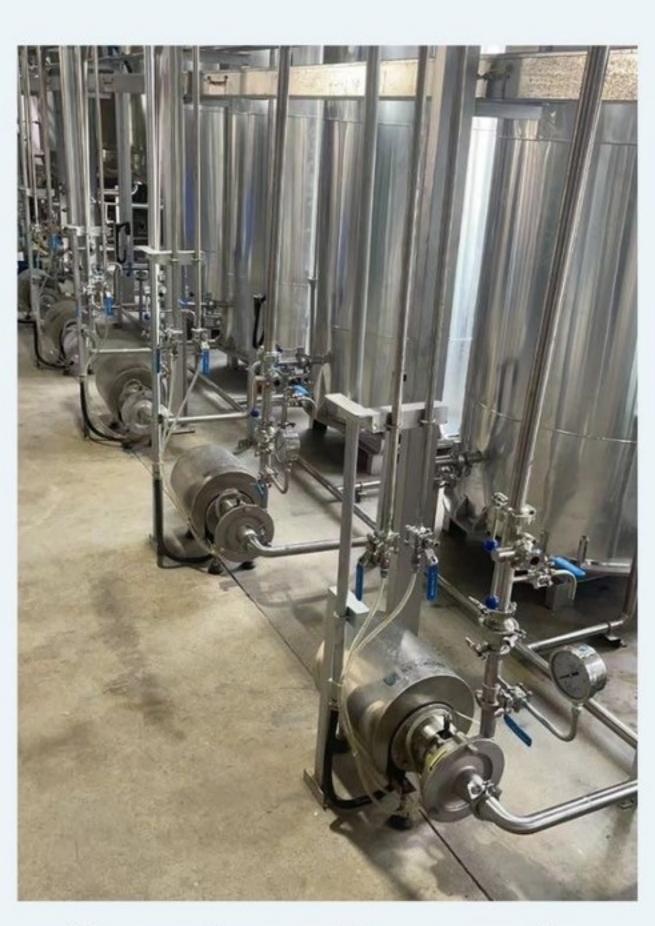




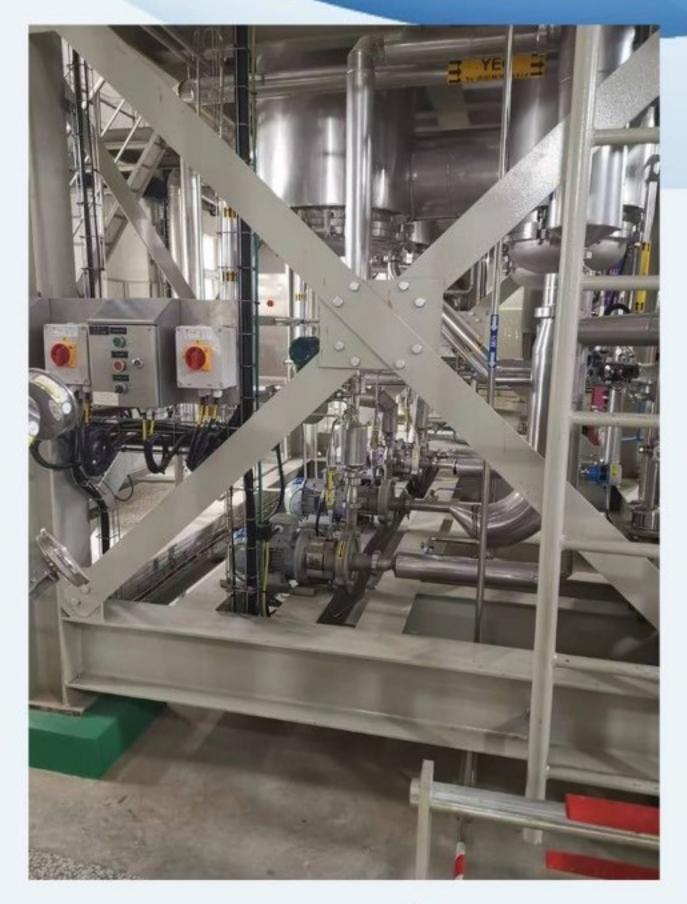




Sterilization machine



Chromatographic separation



evaporator