

### Product characteristics

- ▶ With mechanical seal
- ▶ Can be taken apart in two parts (inner tube with shaft, mechanical seal and impellor and outer tube)
- ▶ For volatile fluids
- ▶ Pulsation-free delivery
- ▶ Delivery against closed valve possible (e.g. pump nozzle)
- ▶ Low weight
- ▶ Can be combined with various motors as required
- ▶ Also available with variable motor speed adjustment

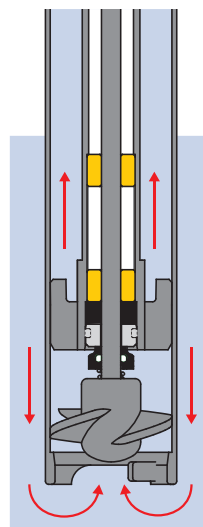
### Technical data



- ▶ Max. delivery rate: 240 litres per minute
- ▶ Max. viscosity: 1000 mPas
- ▶ Immersion lengths: 700/1000/1200 mm
- ▶ Material: Main material stainless steel, all parts in contact with the fluid are certified
- ▶ Pump discharge connection: Clamp 1½"

### Function description

The FP 430 FOOD is a barrel pump with mechanical seal that works based on the principle of an axial-flow propeller pump. Its pump unit consists of drive motor and pump. Via a clutch, the motor drives the drive shaft which has a propeller-like impellor attached to its end. Delivery by the pump requires that the impellor is completely covered with the fluid.



The fluid is transferred axially due to the rotation, i.e. towards the pump discharge along the pump shaft.

In the FP 430 FOOD, the mechanical seal seals the inner tube towards the fluid. In this way, the seal prevents the fluid from getting into the inner tube. The shaft is in contact with the fluid only in the area of the impellor.

### Advantages

- ▶ Explosion-proof for transfer of alcohols
- ▶ One pump for various fluids
- ▶ Several pumps may be driven by one motor
- ▶ Insensitive to solids in the fluid
- ▶ Easy to dismantle (except for mechanical seal)
- ▶ Fluids can be changed quickly
- ▶ Short changeover times
- ▶ Can be carried by one person
- ▶ Use with valves possible (e.g. flap valves)



Hand nozzle for use with FP 430 FOOD.