

Flow rate up to 50 L/min (3 m<sup>3</sup>/hr)

Dynamic head up to 51 m

## **PUMP INSTALLATION AND APPLICATIONS**

These pumps are suitable for handling clean water not containing abrasive particles, and fluids which are not chemically aggressive to the pump components.

**THE OPERATING PRINCIPLE OF CK PUMPS MAKES THEM SUITABLE FOR ALL APPLICATIONS WHERE A COMPACT SELF-PRIMING PUMP IS REQUIRED TO DEAL WITH SCARCE OR IRREGULAR FLOW RATES. CORRECT OPERATION IS ALSO ENSURED IN PROBLEM CASES, such as**

- **WHEN PUMPING VOLATILE OR FOAMY FLUIDS INCLUDING DIESEL OIL**
- **WHEN HANDLING LIQUIDS MIXED WITH GAS,**
- **TO ABSOLUTELY GUARANTEE PRIMING OR PROTECT AGAINST DROPOUT.**

These pumps should be installed in a covered area, protected against the weather.

## **PERFORMANCE**

**CK** pumps suit a wide range variety of applications, with features such as:

- **high heads compared to power requirements;**
- **stable operating curves, characterized by small variations in delivery rates against large variations in pressure demand;**
- **high tolerance of the presence of entrained air in the fluid to be pumped;**
- **suction capacity up to 9 meters.**

Curve tolerance according to ISO 2548.

## **STRUCTURAL CHARACTERISTICS**

- Cast iron **PUMP BODY** with UNI ISO 228/1 gas threaded suction and delivery ports.
- Aluminium back plate/ **MOTOR BRACKET** with **brass** insert (**patented**), reducing difficulties when starting the pump after long periods without use, due to the impeller sticking.
- **OPTIONAL** Stainless Steel front body insert (version CKR) for maximum reliability on water applications
- **BRASS IMPELLER**, with radial blades.
- **AISI 430F stainless steel MOTOR SHAFT (416 UP TO 0.37KW).**
- Carbon Ceramic **MECHANICAL SEAL** with **VITON** elastomer
- **MOTOR:** pumps are coupled directly to an asynchronous, high efficiency PEDROLLO induction motor of suitable size, which is quiet running, closed and externally ventilated, suitable for continuous duty. **INSULATION** class B.  
**A thermal cut-out device (motor protector) is incorporated in single phase motors up to 1.5 kW.**

Three phase motors require an adequate external motor protector connected according to current standards.

- **PROTECTION** IP 44.
- **CONSTRUCTION AND SAFETY STANDARDS** in compliance with EN 60 335 - 1, CEI 61-150), EN 60034-1), (IEC 34-1, CEI 2-3)

### **SPECIAL VERSION**

Model CK 50 is available with a bypass that limits maximum dynamic head to 20 meters.