



# Centrifugal Process Pump

Model: CPRP0001



## Hydraulic Performance

- **Flow range:** 10 – 60 m<sup>3</sup>/h
- **Duty point (example):** 45 m<sup>3</sup>/h @ 35 m head
- **Max head:** 55 m
- **Shutoff head:** ~60 m
- **Speed:** 2,900 rpm (50 Hz) / 3,500 rpm (60 Hz)
- **Efficiency:** up to 72%

## Pump Design

- **Type:** Centrifugal Process Pump Single-Stage Centrifugal: CPRP0001
- **Size:** 2" × 1.5" × 6" (50 × 40 × 150 mm class)
- **Casing:** Cast iron
- **Impeller:** Bronze, closed type

- **Shaft:** Stainless steel with replaceable sleeve
- **Seal:** Single cartridge mechanical seal (Carbon vs. Ceramic, NBR)
- **Bearings:** Grease-lubricated, heavy-duty frame

#### Motor & Power

- **Motor rating:** 11 kW (15 HP), IE3 efficiency
- **Enclosure:** TEFC, IP55, Class F insulation
- **Voltage:** 380–415 V (50 Hz) / 230–460 V (60 Hz)
- **Coupling:** Spacer type, flexible, with OSHA guard
- **Baseplate:** Fabricated steel, grout-in

#### Operating Limits

- **Max liquid temp:** 120 °C (150 °C with FKM)
- **Max pressure:** 16 bar (PN16/ANSI 150)
- **Viscosity:**  $\leq 200$  cP
- **pH range:** 6–9 (CI/Bronze build)
- **Solids:**  $\leq 100$  ppm, non-abrasive

#### Dimensions & Weight

- **Footprint:**  $\sim 900 \times 400$  mm
- **Total weight (pump + motor + base):**  $\sim 150$  kg