



## FP90 PUMP

### Applications:

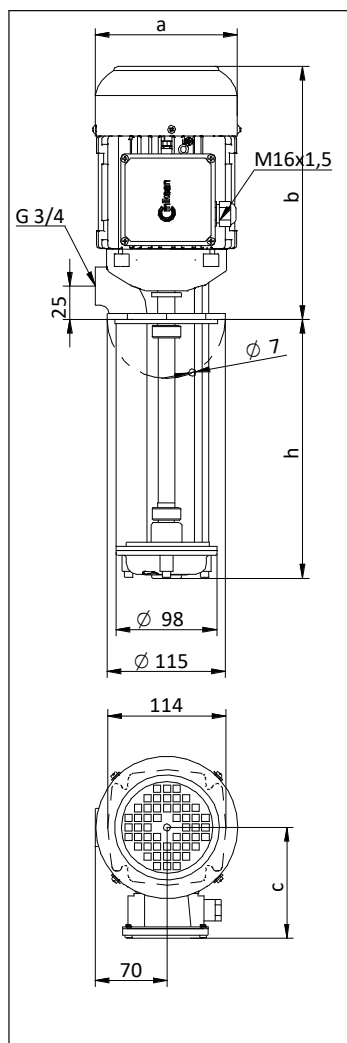
- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Cooling systems,
- Circulation systems. FP90 Pumps are used for pumping of cutting / cooling fluids.
- It has a peripheral impeller so it is recommended to use filtered fluid applications.

### Fluid Specifications:

- Coolants,
- Cutting oils,
- Water,
- Fluid temperature 0...80 °C
- Kinematic viscosity 1...90 mm<sup>2</sup>/s

### Materials:

|                |  |
|----------------|--|
| Pump body      | : Cast iron - DIN GG 25<br>Bronze (Optional)   |
| Volute         | : Cast iron - DIN GG 25<br>Bronze (Optional)   |
| Impeller       | : Brass  |
| Pump shaft     | : Engineering steel - AISI 1040 (DIN C35)<br>Stainless steel- AISI 420(DIN X20Cr13) (Optional) |
| Electric motor | : 3 phase induction motor<br>2 pole, 3000 rpm<br>Protection degree IP 55                       |



## DIMENSIONS & NOMINAL VALUES

| TYPE     | Depth of immersion<br>h (mm) | a   | b   | c   | Weight | Power | Voltage | Frequency | Rated current | Speed |
|----------|------------------------------|-----|-----|-----|--------|-------|---------|-----------|---------------|-------|
|          |                              | mm  |     |     | kg     | kW    | V(Δ/Y)  | Hz        | A             | rpm   |
|          |                              |     |     |     |        |       |         |           |               |       |
| FP 90/11 | 110                          | 138 | 240 | 111 | 10.2   | 1.1   | 230/400 | 50        | 4.85/2.8      | 2720  |
| FP 90/15 | 150                          |     |     |     | 10.5   |       |         |           |               |       |
| FP 90/20 | 200                          |     |     |     | 10.8   |       |         |           |               |       |
| FP 90/25 | 250                          |     |     |     | 11.1   |       |         |           |               |       |
| FP 90/30 | 300                          |     |     |     | 11.4   |       |         |           |               |       |

\* Pump dimensions according to EN 12157.

\*\* The performance curves are based on 1 mm<sup>2</sup>/s (cSt) kinematic viscosity values and 1000 kg/m<sup>3</sup> density

\*\*\* Curve tolerance according to EN ISO 9906.

\*\*\*\* FP 90 pump has IE2 motor. According to IEC 60034-30-1:2014 standard this pump is excluded from efficiency class since its motor is completely integrated into the pump.

Performance Curve

