

## KEP 450 PUMP



### Applications:

- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Filtration systems,
- Circulation systems.
- KEP Pumps are used for pumping of cutting / cooling fluids.

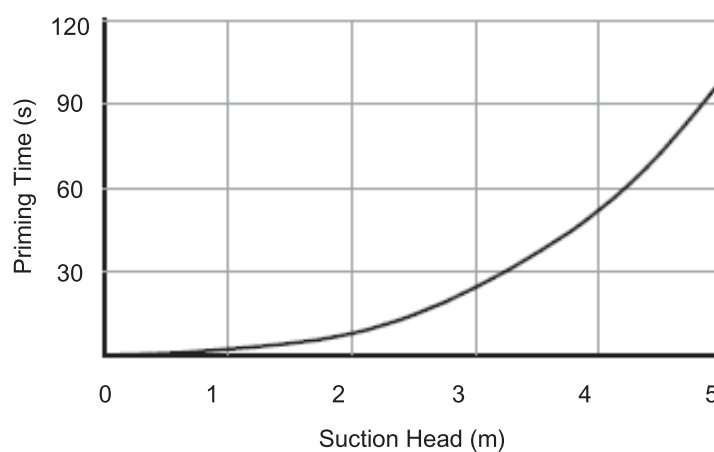
### Fluid Specifications:

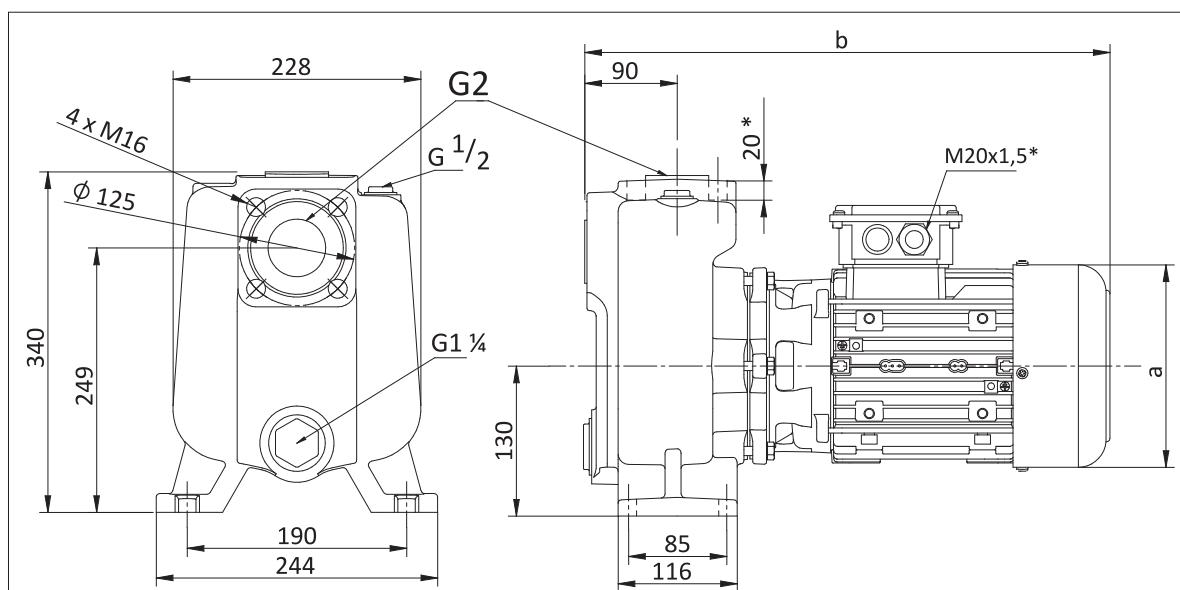
- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 12 mm)
- Fluid temperature 0...60 °C
- Kinematic viscosity 1...30 mm<sup>2</sup>/s

### Materials:

|                 |                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|
| Pump body       | : Cast iron - DIN GG25                                                              |
| Motor Flange    | : Cast iron - DIN GG25                                                              |
| Impeller        | : Cast iron - DIN GG25                                                              |
| Shaft           | : Stainless steel - AISI 420 (DIN 1.4021)                                           |
| Mechanical Seal | : C-SiC-Viton                                                                       |
| Electric motor  | : 3 phase induction motor - 2 pole<br>Optionally 4-pole,<br>Protection degree IP 54 |

**Suction Head and Priming Time**





### DIMENSIONS & NOMINAL VALUES

| TYPE          |     |     | Weight | Power | Voltage | Frequency | Rated current | Speed |
|---------------|-----|-----|--------|-------|---------|-----------|---------------|-------|
|               | a   | b   | kg     | kW    | V(Δ/Y)  | Hz        | A             | rpm   |
|               | mm  |     |        |       |         |           |               |       |
| KEP 450/135-4 | 176 | 485 | 44     | 1.1   | 230/400 | 50        | 4,85/2,8      | 1440  |
| KEP 450/120   |     |     | 45     | 2.2   |         |           | 7.79/4.5      | 2905  |
| KEP 450/128   | 194 | 515 | 52     | 3.0   |         |           | 10.39/6.0     | 2905  |
| KEP 450/135   |     |     | 54     | 4.0   |         | 13.68/7.9 | 2900          |       |

\* The performance curves are based on 1 mm<sup>2</sup>/s (cSt) kinematic viscosity values and 997 kg/m<sup>3</sup> density

\*\* Curve tolerance according to ISO 9906:2012 Grade 3B.

### Performance Curve

