



HDB PUMP

Applications:

- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Especially used for deep hole boring operations due to supply 25 bar pressure,
- Circulation systems. HDB Pumps are used for pumping of cutting / cooling fluids.

Fluid Specifications:

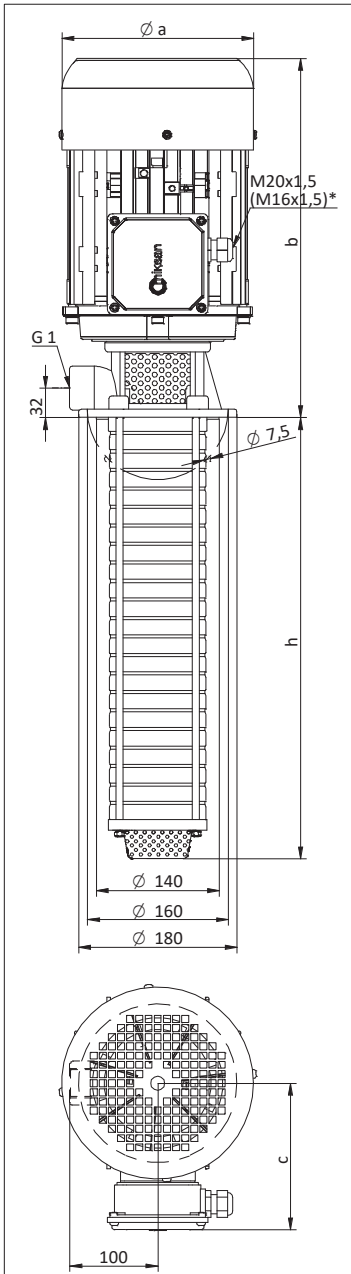
- Coolants,
- Cutting oils,
- Grinding oils,
- Water,
- Fluid temperature 0...80 °C
- Kinematic viscosity 1...30 mm²/s

Materials:

| | |
|-----------------|--|
| Pump body | : Cast iron - DIN GG 25 |
| Bottom plate | : Sheet iron |
| Diffuser | : Stainless steel - DIN 4301 (AISI 304) |
| Impeller | : Stainless steel - DIN 4301 (AISI 304) |
| Strainer | : Stainless steel - DIN 4301 (AISI 304) |
| Pump shaft | : Stainless steel - DIN 4401 (AISI 316) |
| O-ring | : Viton |
| Mechanical seal | : C - SiC - Viton TC - TC - Viton (Optional) |
| Electric motor | : 3 phase induction motor IE3 - 2 pole, Protection degree IP 55 |

- * M16x1,5 cable gland is used on HDB/06 pump.
- ** The performance curves are based on 1 mm²/s (cSt) kinematic viscosity values and 997 kg/m³ density
- *** Curve tolerance according to ISO 9906:2012 Grade 3B.

DIMENSIONS & NOMINAL VALUES



| TYPE | Depth of immersion h (mm) | a | | | Weight kg | Power kW | Voltage V(Δ/Y) | Frequency Hz | Rated current A | Speed rpm |
|--------|------------------------------|-----|-----|-----|--------------|-------------|----------------------------|-----------------|--------------------|--------------|
| | | a | b | c | | | | | | |
| HDB/06 | 206 | 157 | 319 | 118 | 17.0 | 1.1 | 230/400 | 50 | 4.16/2.4 | 2890 |
| HDB/08 | 248 | 176 | 340 | 139 | 21.5 | 1.5 | 230/400 | | 5.72/3.3 | 2910 |
| HDB/10 | 291 | 176 | 365 | 139 | 25.0 | 2.2 | 230/400 | | 7.79/4.5 | 2905 |
| HDB/12 | 333 | 194 | 397 | 150 | 32.0 | 3.0 | 230/400 | | 10.39/6.0 | 2905 |
| HDB/15 | 396 | 194 | 397 | 150 | 33.0 | 3.0 | 230/400 | | 10.39/6.0 | 2905 |
| HDB/17 | 438 | 194 | 397 | 150 | 36.0 | 4.0 | 230/400 | | 13.68/7.9 | 2900 |
| HDB/20 | 501 | 194 | 397 | 150 | 37.0 | 4.0 | 230/400 | | 13.68/7.9 | 2900 |
| HDB/22 | 543 | 218 | 406 | 163 | 41.5 | 5.5 | 230/400 | | 17.15/9.9 | 2900 |
| HDB/25 | 606 | 218 | 406 | 163 | 42.5 | 5.5 | 230/400 | | 17.15/9.9 | 2900 |

Performance Curve

