

HAND PUMP

FHP 4000

The hand pump FHP4000 is a hand operated hydraulic pump for generation of hydraulic pressures up to 4000 bar. The pump has been specially designed for industrial use. The main application areas are the mounting and dismounting of interference fit assemblies and big roller bearings, the use of hydraulic tensioners and burst and calibration tests.

The hand pump is designed in an extremely rugged, simple, light and easy to maintain way. It is suitable for use in steel works, assembly shops, on installation sites and as a maintenance tool on ships, railed vehicles, wind power plants, conveying machinery and crushing mills. Due to the fact that all necessary components are integrated, the pump is always ready for operation.

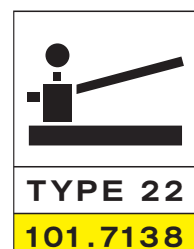


ADVANTAGES

- Pump body made of high tensile steel quenched and tempered
- Hardened, exchangeable valve seats
- Free from leakage piston sealing with exchangeable sealings
- Rugged design, all necessary components are integrated
- Handle fast-locking mechanism for ease of carrying of the pump with the handle
- Easy to maintain construction, pump can be serviced by the customer with standard tools on site
- Integrated steel reservoir with wide feet and closable breather
- Additional return line connection G $\frac{1}{4}$ ", e.g. for double acting cylinders
- Completely assembled, oil filled and ready for operation

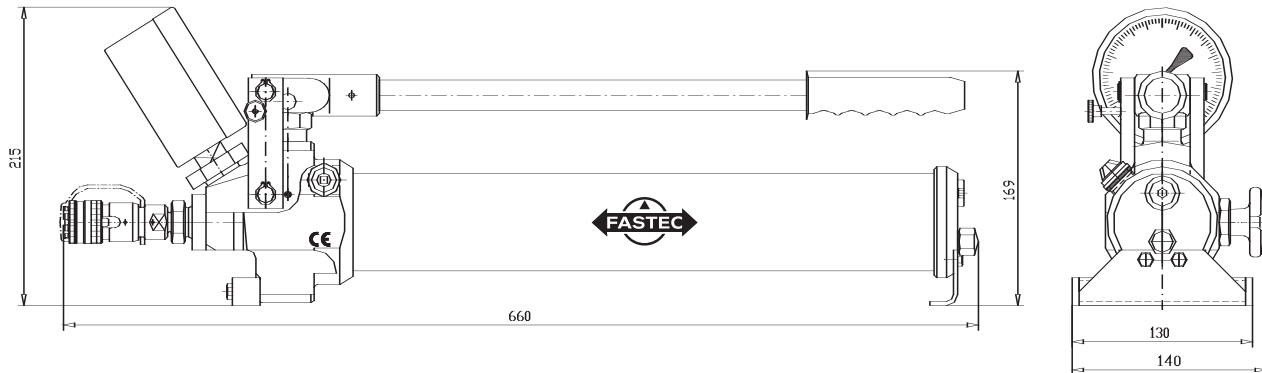
EXAMPLES FOR APPLICATION

- Mounting and dismounting of interference fit assemblies (gearwheels, flywheels, hubs)
- Mounting and dismounting of roller bearings
- Mounting and dismounting of hydraulic couplings and load-limiting devices
- Dismounting of hydraulic connecting bolts (ExpaTen)
- Use of hydraulic tensioners and hydraulic nuts
- burst and calibration tests



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FUNCTION

The hand pump FHP4000 is a single-stage piston pump. The **free from leakage sealing** of the high-pressure side results in a high degree of efficiency. After connecting the consumer and closing the release valve pressure can be built up directly by using the hand lever. The actual hydraulic pressure can be checked at the pressure gauge at all times. By opening the release valve the pressure can be released and the oil will drain **directly back to the reservoir**. **The whole systems works free from leakage.**

TECHNICAL DATA

- Max. operating pressure: 4000 bar (400MPa)
- Displaced volume per stroke: 0.4 cm³/ stroke
- moderate handle effort (400 N at 4000 bar)
- Hardened, exchangeable valve seats
- Release valve with internal return
- Excellent durability
- Reservoir capacity/usable: 1.5/1.3 liter
- Weight: 10 kg (incl. gauge and oil)
- Integrated steel reservoir with wide feet and closable breather
- One gauge connection G $\frac{1}{2}$ " (gauge see type code)
- One pressure connection (see type code)
- One additional return line connection G $\frac{1}{4}$ "
- Fixed handle with locking mechanism
- All steel parts chemi-blackened
- Completely assembled, oil filled and deaerated
- Any other design available (upon request)

Equipment see type code 101.7138

FASTEC AG
 INDUSTRIEZONE
 SCHÄCHENWALD
 CH-6460 ALTDORF
 SWITZERLAND

FON +41 41 875 78 30
 FAX +41 41 875 78 31
 INFO@FASTEC.CH
 WWW.FASTEC.CH

