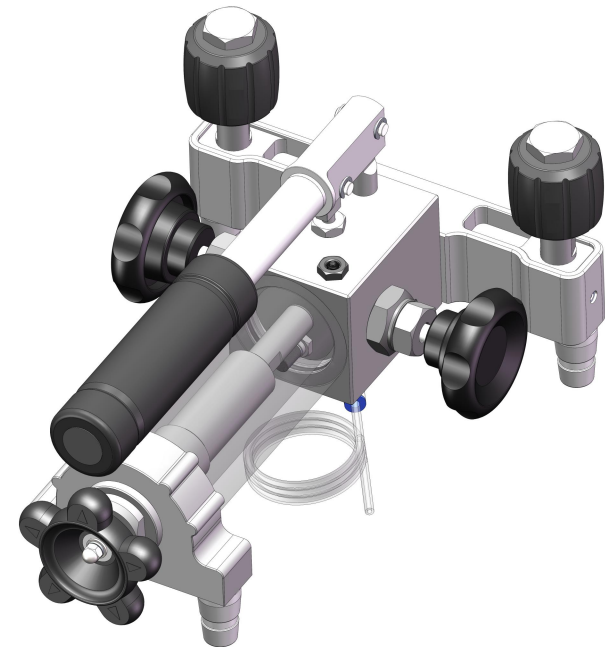


Portable hydraulic source operation instructions

Precision instrument

Make the measurement more accurate



Xi'an Xinyi Instrument Technology Co., Ltd

Technical parameter

Pressure measuring medium: purified water or special oil (one of two)
Service temperature: 0 ~ 50 ℃
Overall dimension: 300 × 220 × 180
Instrument weight: 3.9kg
Pressure range: 0 ~ 60 MPa

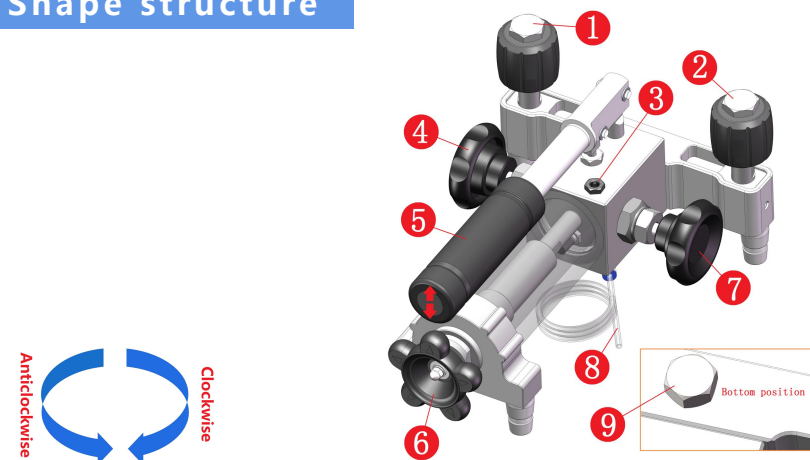
Matters needing attention

1. The pressure pump shall be used within the rated pressure range as far as possible, and overpressure greater than 10MPa of the maximum range is prohibited;
 2. When it needs to be transported or carried for use, the quick connector must be locked with a plug, the [pressure relief valve] ⑦ must be closed, and the pressure bar must be closed Put it in the lowest position, and [boost fine adjustment] ⑥ all screw in;
 3. If the pressure measuring medium is polluted, please replace it in time;
 4. During use, the liquid level of the pressure measuring medium shall not be lower than the position of the filter in the liquid storage cup;
 5. The lever is pressurized and the application force is uniform; All handles and joints shall not be operated with excessive force;
 6. After long-term use, the thread part shall be coated with an appropriate amount of grease. If there is pollution, please clean it in time;
 7. For long-term storage, it should be kept in a dry, non corrosive gas and sun proof environment.
- *When the pressure is higher than 20MPa, [stop valve] ④ is closed; If pressure relief operation is required, please open 【 pressure relief valve 】 ⑦ first, and then 【 stop valve 】 ④ for pressure relief***

Verification steps

1. Connect the standard meter to the standard interface ① and the calibrated instrument to the pressure test interface ②; [keep the calibrated instrument clean]
2. Screw out 【 liquid injection port cap 】 ③ and fill 3 / 4 pressure measuring medium into the liquid storage chamber; Replace the upper filling port cap;
3. Open [stop valve] ④, close [pressure relief valve] ⑦, and turn [boost fine adjustment] ⑥ counterclockwise;
4. Hold 【 pressurizing handle 】 ⑤, lift up and press down repeatedly for about 10 times, and open 【 pressure relief valve 】 ⑦ to exhaust;
5. Close 【 pressure relief valve 】 ⑦, hold 【 pressurization handle 】 ⑤, lift it up and down to the required pressure value, and then close it
④ rotate the stop valve clockwise to the required value; (when the 【 pressurizing handle 】 ⑤ is used in a cyclic manner, the 【 stop valve 】 ④ must be opened.) when the pressure reaches 5 ~ 10MPa, close the 【 stop valve 】 ④, and use 【 pressurizing fine adjustment 】 ⑥ to pressurize and calibrate the high-pressure range section;
6. Recheck, rotate 【boost fine adjustment】 ⑥ counterclockwise to reduce the pressure and detect it point by point. When the pressure drops to 10 ~ 20MPa, open 【stop valve】 ④ first, and then slowly open 【pressure relief valve】 ⑦ to the required value;
7. After the calibration, open 【 pressure relief valve 】 ⑦ to relieve the pressure and remove the calibrated meter to complete the calibration.

Shape structure



No.	Name	Function
1	Standard meter interface	Standard gauge for M20*1.5 thread connection
2	Pressure test interface	Connect the calibrated pressure instrument interface (thread specification M20*1.5)
3	Filling port cap	Fill the reservoir with pressure measuring medium and exhaust function
4	Globe valve	Cut off the connection between the booster pump and the detection part and keep the measurement part stable
5	Pressure handle	Pressure generation by lifting up and pressing down
6	Boost trim	Pressurization / precise adjustment of applied pressure
7	relief valve	Loosen and release the pressure in the pump
8	Drain pipe	Open the pressure relief valve to discharge the pressure measuring medium, and insert the pipe head into the return port without discharging
9	filter	Filter the dirt at the output end into the pressure building system (clean it regularly according to the situation)

Common problems and Solutions

Phenomenon	Reason	Processing method
Do not press up when pressing the handle	1. The pressure relief valve knob is not tightened 2. The sealing ring in the quick connector falls off 3. The stop valve is not opened	1. Tighten the pressure relief valve 2. Reinstall or replace with a new sealing ring 3. Open the stop valve
Slight leakage	1. The quick interface is not tightened 2. The sealing ring is worn or aged 3. The pressure relief valve knob is not tightened	1. Tighten all threaded joints 2. Replace the sealing ring with a new one 3. Tighten the pressure relief valve