

YWQ-1451 series
liquid pressure source

Manual

Xi'an Xinyi Instrument Technology Co., Ltd.

1. Company Profile

Xi'an Xinyi Instrument Technology Co., Ltd. is a high-tech enterprise specializing in pressure calibration Development, production and sales of testing instruments. Superior product performance, super first-class after-sales service, It has established a good reputation for the company in the domestic and foreign instrument industry. The company has strong R&D Team, perfect service system, superb sales force. The company has always been strict with product quality Control and service with sincerity and enthusiasm. At present, the company's products have been widely used in aviation, aerospace, electric power, Petroleum, chemical industry, metallurgy, railway, metrology, military industry, universities and many scientific research institutions.

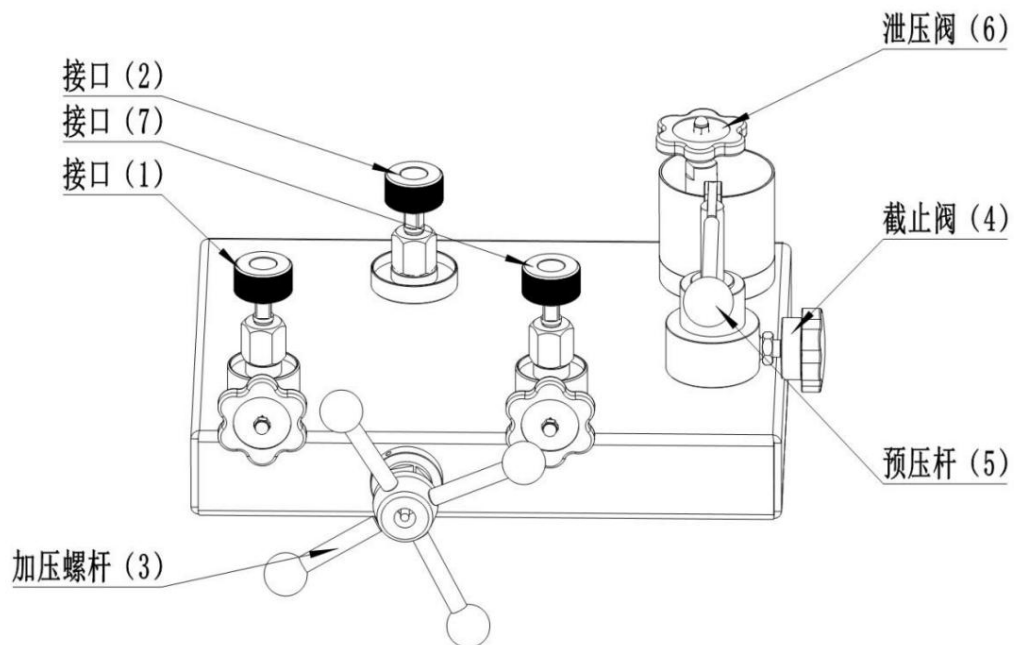
2. Product introduction:

This product is made of high-quality stainless steel, foreign advanced sealing technology, and has undergone various processing methods. Artfully crafted. Completely open structure, more convenient for maintenance; The pressure drop is stable, the pressure can be stabilized in an instant, and the return verification is very easy to operate; suitable for: food hygiene Health, aerospace, military, metallurgy, metering and other industries are calibrating pressure transmitters, pressure transmission Sensors, precision (ordinary) pressure gauges and other pressure instruments provide stable, fast, Safe and reliable high pressure pressure source, the pressure can reach 160MPa.

3. Technical parameters

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|---|---------------------------------|
| 1. Range: 0~6, 60, 100, 160MPa | 5. Dimensions: 450X300X240 (mm) |
| 2. Medium: transformer oil or distilled water | 6. Weight: 11kg |
| 3. Minimum controllable adjustment: 10KPa | 7. Fuel tank volume: 0.3L |
| 4. Interface: M20×1.5 3 | |

4. Structure diagram:



1- Tested meter interface 1

5-Preload rod

2- Tested meter interface 2

6- Pressure relief valve

3-Pressurized screw

7-Standard meter interface

4- Globe valve

5. Operation steps:

1 Remove the plugs of the ports (1), (2), (7), check whether there is an "O" ring and it is intact;

2 Add the medium (pure water or transformer oil) to the oil cup to 2/3;

3 Connect the standard form and the inspected form;

4 Open the stop valve (4) and the pressure relief valve (6) counterclockwise, and unscrew the pressure handle (3);

5 Shake the preload handle up and down repeatedly. When no bubbles are generated on the liquid level, close the pressure relief valve (6) clockwise;

6 Continue to shake the preload handle (5) until the pressure reaches more than 2MPa (can reach 20MPa).

Close the shut-off valve (4);

7 Shake the pressure handle (3) clockwise until the desired pressure value is reached;

8 After the verification is completed, unscrew the pressure handle (3) counterclockwise until the pressure is reduced to "0";

9 Open the pressure relief valve counterclockwise, and only when there is no liquid flowing out of the oil outlet, can the instrument of the output interface be removed.

surface;

6. Matters needing attention:

1 When using this instrument, you must first check the liquid storage in the oil cup. If it is not enough, it should be replenished in time.

Charge;

2 Do not open the pressure relief valve directly when releasing the pressure. Be sure to unscrew the pressure handle (3) first, otherwise the pressure relief valve may be opened.

can cause damage to the instrument;

3 If air is mixed into the liquid, the pressure may be unstable, and the air in the pipeline should be removed in time.

gas;

4 When not in use for a long time, the liquid in the cup needs to be poured out;

5 If the instrument fails, please do not disassemble it at will, please contact our company or distributor,

We will solve it for you in time!

Attachment: Common problems and solutions

question	reason	Solution
Difficulty in creating pressure	1. The oil (water) tank is short of water	Refill oil and water
	2. Is the globe valve closed?	Close the shut-off valve clockwise
	3. Is the pressure relief valve closed?	Close the unloading valve clockwise
	the inspected (standard) instrument is tightened with the attached plug	Tighten the inspected (standard) instrument, use 4 for the unverified output port, whether
	5. System air intake	Plug each output port with a screw plug, close the pressure relief valve, build up pressure, then open the pressure relief valve to release the pressure, and repeat it several times.
	6. The medium is polluted, the one-way valve is not sealed, cleaned	maintained, and equipped with a filter
pressure source leak	1. If the connection thread end face of the instrument under test is not flat, use the excessive joint produced by our company to connect it, seal it with aluminum or copper gasket, and tighten it with the help of tools.	
	2. the output port seal is aging	Replace the "O" ring (y15 outer X2.4)
	3. Is the globe valve closed?	Close the stop valve
	4. The instrument under test has leakage	Replace other instruments and try again to determine whether the instrument under test is leaking
	5. pressure source leakage	Connect the pressure module or precision pressure gauge to the output port, plug the rest with the plugs provided with the machine, pressurize to the upper limit, and check its tightness
item Other considerations	1. The exhaust valve is full of medium in the system, and other operations are performed according to the correct steps, but the system still does not work. It can be opened only when the pressure is created, and it is closed when the pressure is normal.	

	2. When the pressure is stable and slow, there may be air in the pipeline. When you open an output port and see the liquid overflowing, Reconnect the meter.
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