



# HPC

## Pneumatic hand test pump



### Technical Parameter

Fluid : Clean air (clean and non-corrosive gas)

Temperature : -20~50°C

Dimension : 150×62×216mm

Weight : 0.6kg

Range :	M1. -0.095~1.6 MPa	Y1. 0 ~ 1.6 MPa
	M2. -0.095~2.5 MPa	Y2. 0 ~ 2.5 MPa
	M3. -0.095~4.0 MPa	Y3. 0 ~ 4.0 MPa
	M4. -0.095~6.0 MPa	Y4. 0 ~ 6.0 MPa

### Cautions

1. The pneumatic pump should be used within the rated pressure range as far as possible, and the overpressure is prohibited to be greater than the maximum range of 1MPa;
2. When using in a corrosive and dangerous environment, the hazards caused by medium compression should be considered;
3. When switching between pressure and vacuum, it must be carried out under no pressure;  
(This function is not available for Range Y1 to Y4)
4. All handles and joints cannot be operated excessively;
5. Long-term storage should be in an environment dry, without corrosive gas, and anti-exposure.

### Calibration Steps

1. Connect the master meter to the standard interface ① and the calibrated instrument to the calibrated interface ④;(Keep the instrument to be calibrated clean)
2. When testing the negative pressure, turn the switch valve knob ⑤ counterclockwise out;  
When testing the positive pressure, turn the switch valve knob clockwise in;
3. Turn the fine-tuning knob ⑥ (positive pressure) counterclockwise to 2/3 and (negative pressure) to 1/3;
4. Tighten the pressure relief valve knob ⑦ clockwise;
5. Tighten the pressure-making handle ⑧ with ten fingers interlocking, squeeze inward and loosen it repeatedly to make pressure close to the required value;
6. Use the fine-tuning knob ⑥ to fine-tune;  
【(Positive pressure) rotate clockwise to increase pressure, (vacuum) rotate clockwise to decrease vacuum】
7. After the calibration, loosen the pressure relief valve knob ⑦ counterclockwise to relieve the pressure; remove the meter to be calibrated to finish this calibration.

### Shape structure



No.	Name	Function
1	Standard meter interface	For connecting master pressure gauge(thread M20x1.5)
2	Pressure test interface	For connecting one end of pressure test tube(thread M10x1.0)
3	Pressure test tube	For connecting to the pressure gauge to be calibrated
4	Pressure test interface	For connecting the interface of calibrated pressure instrument,M20 x 1.5
5	Switch valve knob Anticlockwise Clockwise	Pressure (screw in clockwise)/vacuum (screw out counterclockwise) switch
6	Fine adjustment knob	Precisely adjust the applied pressure (maximum stroke 20mm)
7	Pressure relief valve knob	Loosen to release the pressure in the pump, and tighten the knob to close the valve before boosting the pressure
8	Pressure handle	Fingers interlocked, double grasping handles squeeze inward for pressure

### Common problems and solutions

Phenomenon	Reasons	Solutions
No pressure when squeezing the handle	1.The knob of pressure relief valve is not tightened. 2.The sealing ring in the quick connector falls off. 3.The knob of stop valve is not turned in place 4.Inhalation of foreign bodies in the airway	1.Tighten the pressure relief valve 2.Reinstall or replace with a new sealing ring 3.Turn the knob of stop valve to the position 4.Pressurize multiple times and quickly relieve pressure
Minor leak	1.The quick interface is not tightened. 2.The seal ring is worn or aging. 3.The knob of pressure relief valve is not tightened.	1.Tighten this thread interface 2.Replace with new sealing ring 3.Tighten the pressure relief valve