

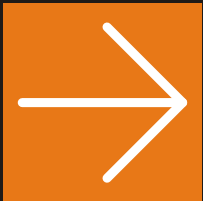


Calibration can be easy!

# ConST® 162

## Table Pneumatic Pump User's Manual

[Version number:1009V10]



### Warnings and cautions

- Avoid possible damage when suddenly apply pressure to low pressure and small chamber gauges.
- Do not exceed the safety pressure limit ( 18MPa ) .
- Compressed air may cause problem in explosive or corruptive environment.
- Do not shift the selector to vacuum mode under pressure.
- Do not over tighten connectors to avoid any damage.
- The pump could store in the dry and non-corruptive environment.
- Any safety problems or damages caused by incorrect operation, are beyond ConST group's responsibility.

### Specification

- **Pressure range:** ( -0.095 to 12 ) MPa
- **Temperature:** ( 0~50 ) °C
- **Humidity:** < 85%RH
- **Adjusting fineness:** 10Pa
- **Safety pressure:** < 18MPa
- **Pressure media:** Air
- **Weight:** 7.1kg

*Remark: If local atmosphere pressure is 100kPa, the vacuum can reach to -95kPa;  
If local atmosphere pressure is P, the vacuum can reach to - (95P/100)kPa.*

### Air routine&Accessories

#### Air routine

#### Accessories

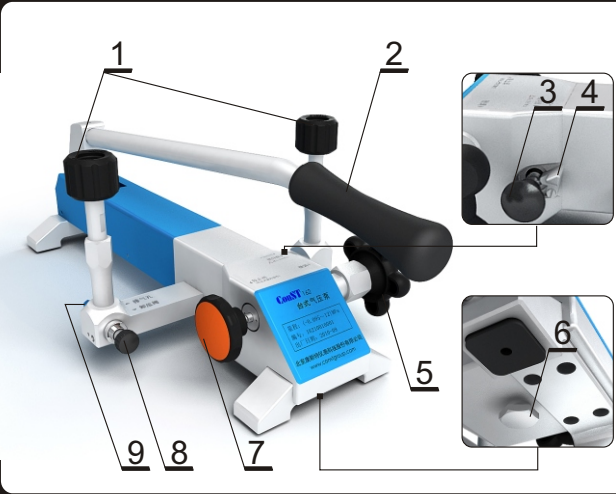
sealing ring  
ZL200620119357.2

× 20

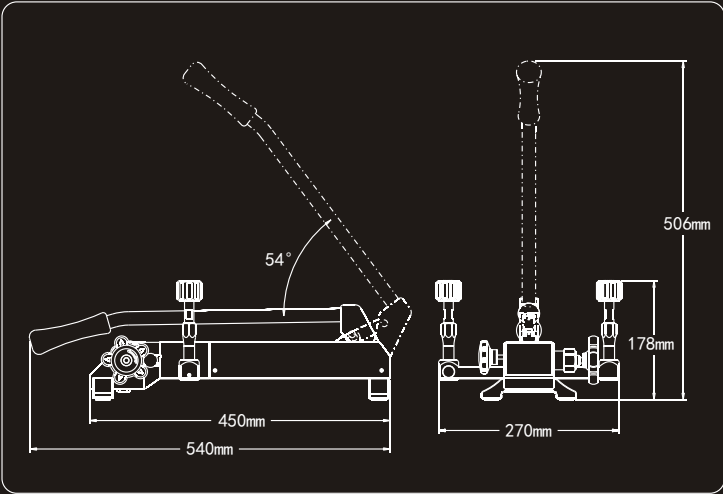
plug

× 2

### Configuration & Size

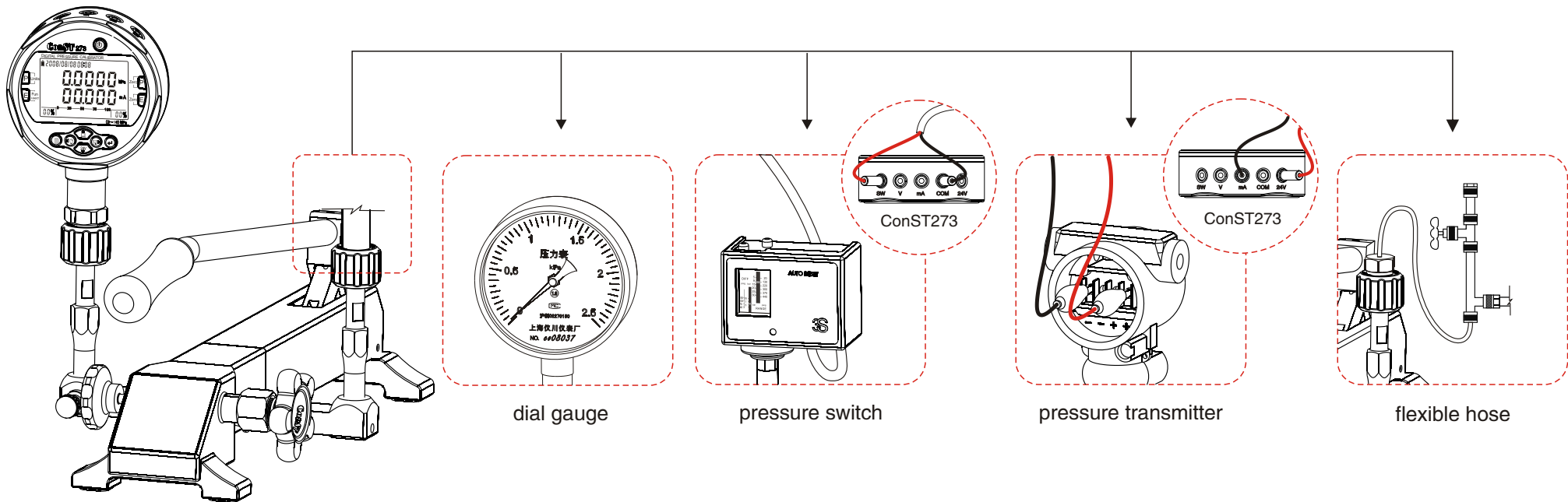


- 1 – M20 × 1.5 connector
- 2 – Pressure lever
- 3 – Pressure/vacuum selector  
( Pressure: pull it out; Vacuum: push it in.Do not shift under pressure )
- 4 – Selector-protector
- 5 – Fine adjust handles  
( clockwise to increase pressure )
- 6 – Clean-out hole
- 7 – Isolating valve  
( isolate the calibration from pressurizing system )
- 8 – Release valve  
( clockwise to close/ anticlockwise to open )
- 9 – Vent hole



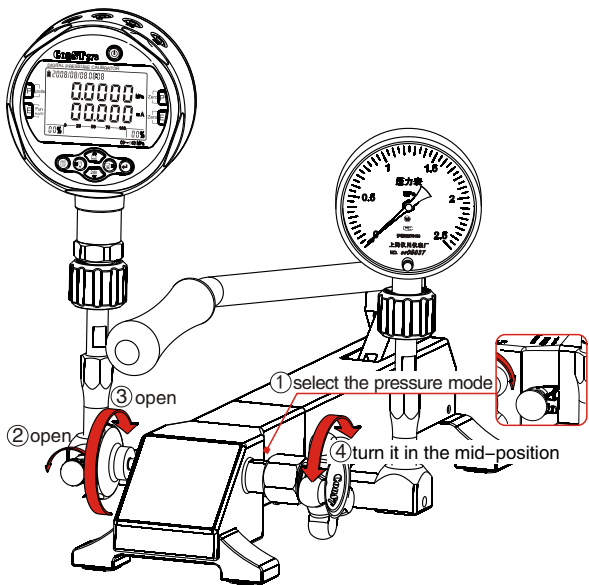
### Troubleshooting

Problems	Causes	Solutions
Hard to use pressure lever	The isolating valve is not open.	Open the isolating valve.
Hard to pressurize	A. Release valve is not closed.	Close the release valve.
	B. The sealing ring is broken or loosen.	Replace sealing ring (PR#:ZL200620119357.2).
	C. P/V selector is in wrong position.	Pressure: pull it out; Vacuum: push it in.
	D. Pipeline jamed with impurity.	Open the Clean-out bolt and clean.
Hard to use fine adjust	A. The isolating valve is not closed.	Close the isolating valve.
	B. The gauges is not tightened.	Tighten the reference gauge or the gauge under test.
	C. The sealing ring is aged or frayed.	Replace sealing ring.
	D. The thread surface is not smooth.	Put in a Teflon seals and turn it tightly.
	E. The connector type is unmatched.	Use the right and suitable adapter.
	F. The impurity blocks the air routine.	Repeat pressurizing several times and then release it suddenly, make airflow to bring the impurity out.
Not easy to turn the fittings	A. Too tightly turned last time!	Do not apply much force to close the fittings and valves.
	B. The new pump is not smooth.	The new pump needs time to abrade.
	C. The threads have no lubrication.	Lubricate the thread.



Open to atmosphere  
Pre-pressure

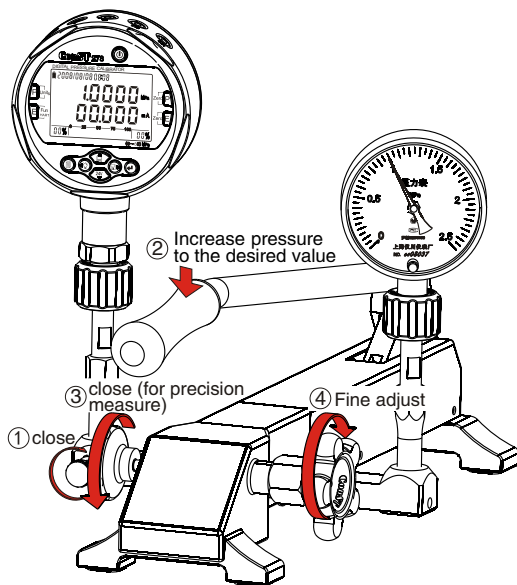
B



Zeroing should be operated under this condition only.

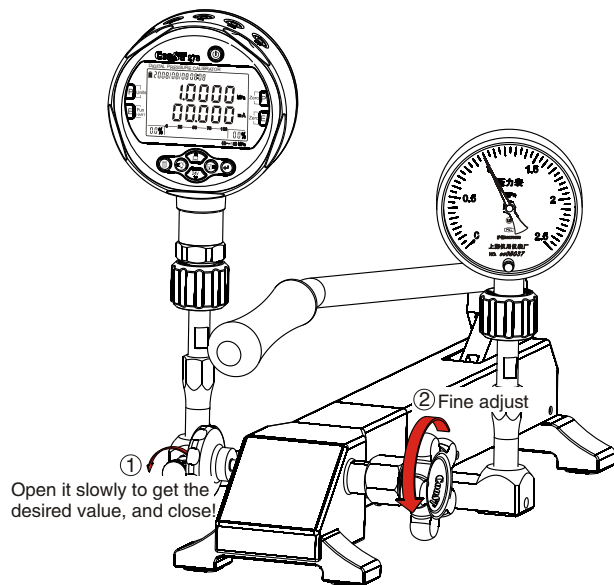
Increase pressure process

C



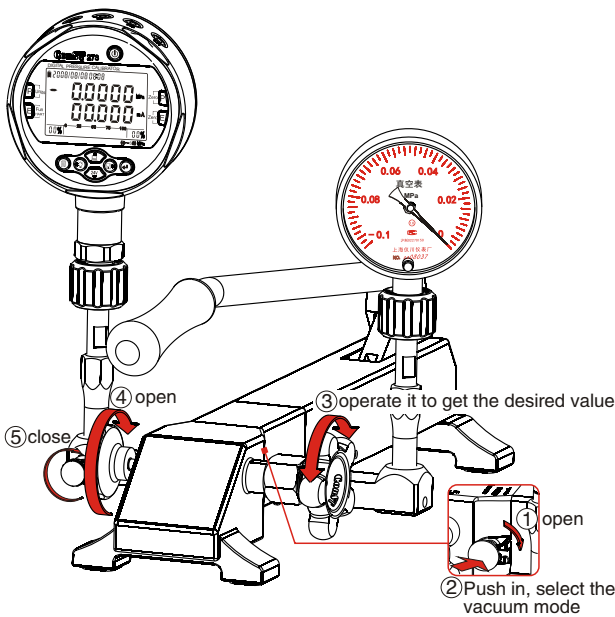
Decrease pressure process

D



Prepare for vacuum

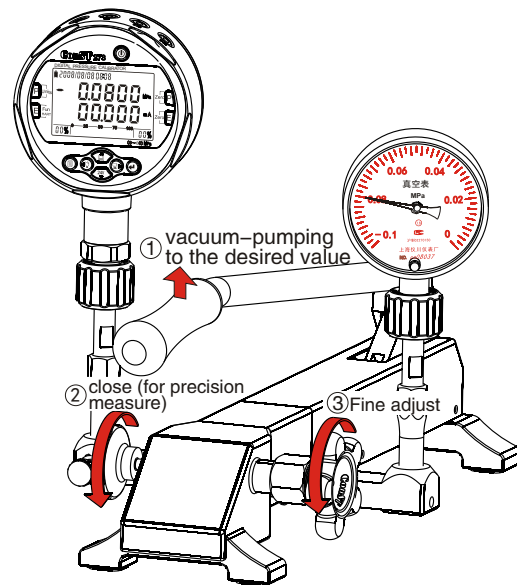
E



Open to atmosphere before operation

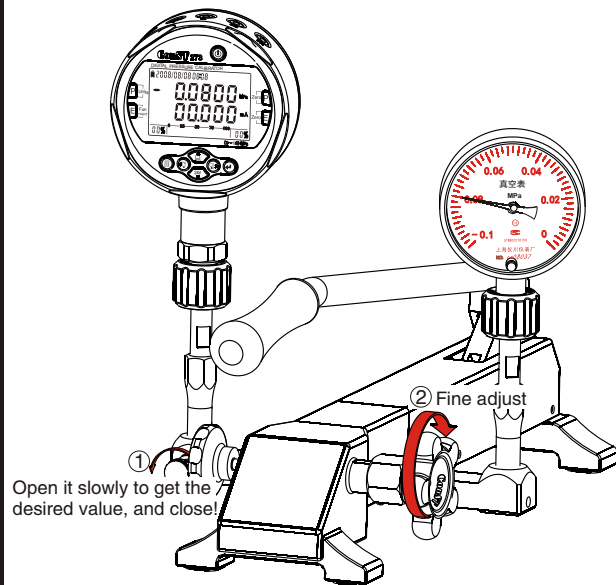
Vacuum process

F



Decrease vacuum process

G



**Remark:** A: ConST group has made a concerted effort to provide complete and current information for the proper use of the equipment. The product specifications and other information contained this manual are subject to change without notice.

B: Above pictures are just for reference.