

Accurate calibration, Perfect service!



SPMK 214L

Pressure Comparator User's Manual



Beijing Spake Technology Co., Ltd.

Product Characteristics

SPMK214L portable hydraulic pressure comparator can be used in laboratory or on-site environment. The device is with open, transparent design, simple structure. It is with features of simple operation, pressure rise and fall steadily, small adjustment resolution, easy maintenance, no leakage and so on. SPMK214L portable pressure comparator is made of special hard aluminum material, the weight is light and easy to carry.

Technical Indicator

- > Pressure range: (0~70)MPa
- > Adjustment resolution: 0.1kPa
- > Service environment: On-site environment/lab
- > Media Mineral Oil/Pure Water
- > Dimension: (384×198×180)mm
- > Weight: 4.7kg
- > Size of connector: M20×1.5

Executive Standard

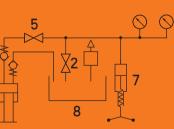
> JB/T 599-2005 Calibration Instrument of Pressure Gauge

Structure and Principle

Structure







- 4. Output port

Principle

- 2. Pressure maintaining valve
- 7. Fine adjustment handwheel 8. Medium cylinder
- 6. Injection screw

Accessories Included

- > O-rings 10pcs.
- > Output port plug 2pcs.
- > <SPMK214L Pressure Comparator User's Manual> 1pcs.



Precautions

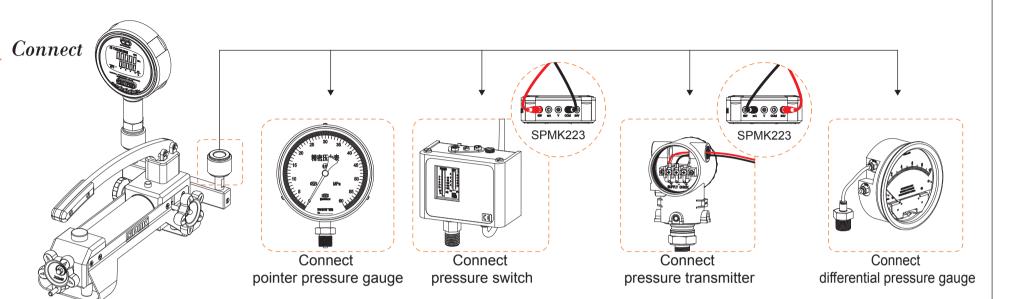
- > Instruments with impurity must be cleaned before calibration.
- > Instruments with strong corrosive media must be cleaned when connected to this comparator.
- > In the explosion, corrosion and other environments, users should consider the harm caused by media compression.
- > For long-term preservation, please close the output ports, store the comparator in a clean / dry and non-corrosive environment.
- > It is forbidden to use over range of the rated pressure of this comparator.
- > Regular maintenance (recommended half a year) update the media in time.
- > The exhaust screw is always open when the system is in use.
- > Our company will not be responsible for any personal safety problem or equipment damage caused by wrong operation.

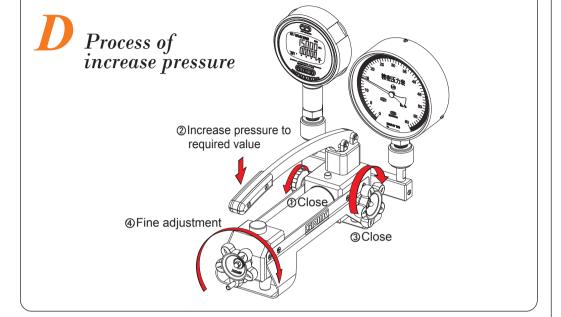
FAQ and **Solutions**

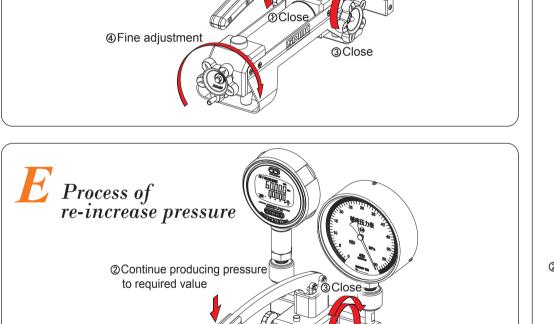
Problems	Reason	Solution	
It is hard to press down the pressure handle	Pressure maintaining valve is not open	Open the Pressure maintaining valve while using pressure handle	
Difficulty in producing pressure	Less medium	Fill in medium	
	The tested or standard gauge is not tightened	Tighten the gauges both the standard and under tested	
	Pressure release valve is not tightened	Tighten the Pressure release valve	
	System is with air	Open pressure release valve, press/lift pressure handle and repeat for a few times to make the air out of the system	
Leakage of pressure comparator	The seal ring in the quick connector is worn or aged	replace seal rings by new one	
	Under tested gauge connector is not matched	Using adaptor (suggest using adaptors from our company)	
	Under tested gauge face is not smooth	Add polytetrafluoroethylene pad and tighten with tool	
	Pipeline inhalation of impurity, affecting the valve sealability	Produce pressure for more times, release pressure quickly to make the comparator medium flow out of the comparator and take the impurity out	
	impurity in medium affect the sealability	Replace the medium	
Rotating parts are not flexible	Over force of the last time use	Please do not use big force when closing each valve	
	Thread without grease	After long time use, please add some grease on thread parts	
	There is a difference in the rotating parts of the new equipment	It is common and need running in	

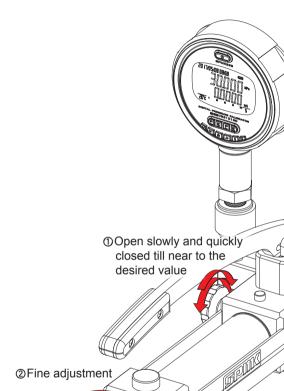
Basic Operation

Fill the liquid

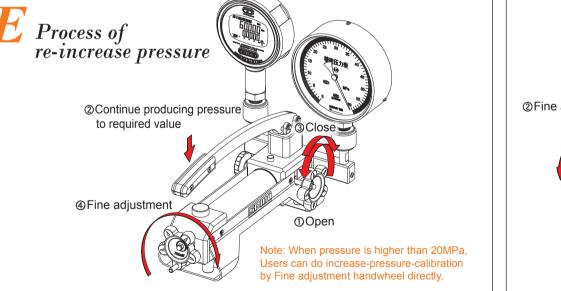


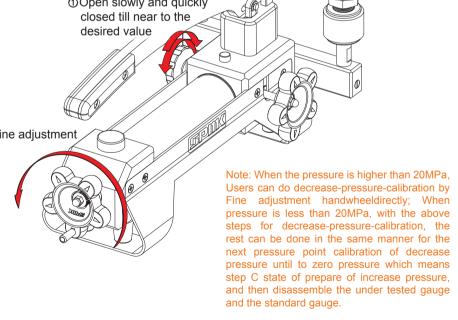






Process of reduce pressure





te: 1. Beijing Spake Technology Co., Ltd. has made every effort to ensure the accuracy of the contents of this manual, but due to the different calibration object, the content may not be comprehensive, please refer to the relevant calibration procedures for using.

2. All photoes here are for reference only, please take the actual product as the standard.

③Fill liquid medium slowly to over 3/4

of the oil cylinder

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③Rotate to the outmost