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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14514.1-1993

Replacing GB/T 14514.1-1993

**Test methods of pneumatic fluid power fittings
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Standardization Administration of China

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 14514.1-1993 "pneumatic fittings Test methods." this standard compared with GB/T 14514.1-1993, the main changes are as follows.

- The original "reference standard" to "normative references", and change the content;
- Added "3 Terms and Definitions" and content;
- The "connection strength test" to "pull split test" and add and modify content;
- Pilot projects to increase the "pressure rated Verification Test" project and test methods;
- Modify the "leak test" and content "pressure test";
- Remove the "1" and in "This standard does not apply to pneumatic fitting cylindrical quick test" content;
- Added "other requirements" and content;
- Increased "visual inspection" project and test methods;
- Added "7 Marking explanation";
- Delete "Appendix A", the contents of which added to the standard text.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of hydraulic and pneumatic (SAC/TC3) centralized.

Introduction

In the pneumatic system, the power is through a closed loop within the compressed air to pass and control.

With each element fittings and takeovers are interconnected via the air inlet.

Pneumatic fittings Test methods

1 Scope

This standard specifies the pneumatic tube system hardware, test methods hose pipe joint.

This standard applies to compressed air as the working medium, the maximum working pressure of 1.6MPa pressure transmission medium hard pipe, hose tube Test joints.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 14038 Pneumatic connection Ports and stud ends Determination of GB/T 14513 flow characteristics of pneumatic components GB/T 17446 Fluid power systems and components - Vocabulary GB/T 22076 cylindrical pneumatic quick couplings - Plug connecting dimensions, specifications, application guidelines and testing ISO 14743 Pneumatic plug-in for plastic pipe fittings (Pneumaticfluidpower-Push-inconnectors forthermoplastictubes)

3 Terms and Definitions

GB/T 17446 define the terms and definitions apply to this document.

4 Symbol

Symbols and units Table 1.

Table 1 Symbols and units

Symbol	Unit	Name
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Pressure p	MPa	MPa
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Newton force	FN	
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Frequency f	Hz	Hz
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Time ts	seconds	
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Amplitude Y mm mm

The radius of curvature r mm mm Take over the length L mm mm Take over the outer diameter D mm mm δ mm mm wall thickness takeover