

ICS 23.100.60

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

GB/T 25132-2010

**Hydraulic fluid power -- Filters -- Test method for differential
pressure devices**

液压过滤器 压差装置试验方法

(English Translation)

Issued on: September 26, 2010

Implemented on: February 1, 2011

Issued by: Standardization Administration of China

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Foreword

This standard is equivalent to international standard ISO 16860:2005 "means hydraulic filter pressure test method" (in English).

This standard is equivalent to translate ISO 16860:2005.

For ease of use, this standard does the following editorial changes.

- The "this International Standard" by "this standard";
- Use the decimal symbol instead of as a decimal comma " , " . " , " ;
- Remove International Standards and Introduction;
- Remove International Standard Annex B (informative);
- Delete references to international standards, the references to the 7.7 was revised to "refer to the relevant test standards";
- International standards "2 Normative References" section to replace the current national standard corresponding.

Appendix A of this standard is an informative annex.

The standard proposed by China Machinery Industry Federation.

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

This standard was drafted. Xinxiang City-Philippines Filters Ltd., Beijing University of Chemical Technology, Liming Hydraulic Co., Ltd., the Ministry of Railways product quality

Supervision and Inspection Center, China Shipbuilding Industry Corporation No. 707
Institute of Jiujiang Division.

1 Scope

This standard specifies the test method as an auxiliary hydraulic filter element differential pressure bypass valve means or status indicators operating characteristics.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3141 Industrial liquid lubricants - ISO viscosity classification (GB/T 3141-1994, eqv ISO 3448:1992) GB/T 17446 Fluid power systems and components Terminology (GB/T 17446-1998, idt ISO 5598. 1985) GB/T 17486 hydraulic filter pressure drop flow characteristics assessment (GB/T 17486-2006, ISO 3968:2001, IDT)

3 Terms and Definitions

GB/T 17446 and established the following terms and definitions apply to this standard.

Operation pressure actuationpressure1) Differential pressure value signal conversion means, including open and reset differential pressure.

1) in accordance with the "actuationpressure" definition, which is referred to as "pressure action" and not literally translated as "operating pressure." 3.2 Low lock lowtemperaturelockout it means preventing pressure below the set temperature in the converted signal, and allows the other normal converted signal higher than the set temperature Features.

Note: The low locking device to prevent abnormal pressure alarm under cold start conditions.

Bypass valve status indicator bypassvalveconditionsignalingindicator by providing an external visual or electrical signal to indicate pressure bypass valve means operating condition.

4.1 Test Bed

Test bench shall meet the test requirements of 7.4.

4.2 Test media

Test media should be consistent with GB/T 3141 of ISO viscosity grade 32. Or when otherwise specified pressure differential devices specified by the manufacturer or viscosity Except compressed air conditioned and filtration.

4.3 Cryogenic tank or environmental chamber

Cryostat or environmental compartments should be able to adjust the temperature, pressure differential devices used to test locked or unlocked at the set temperature.

4.4 Temperature measuring instrument

The accuracy of temperature measurement is ± 0.5 °C.