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Fluidna tehnika - Hidravlika - Filtrski vložki - Metoda končnega obremenilnega preskusa

Hydraulic fluid power - Filter elements - Method for end load test

Transmissions hydrauliques - Éléments filtrants - Méthode de détermination de la résistance à la déformation axiale

Ta slovenski standard je istoveten z: ISO 3723:2015

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23.100.60	Filtri, tesnila in onesnaževanje tekočin	Filters, seals and contamination of fluids

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Hydraulic fluid power — Filter elements — Method for end load test

Transmissions hydrauliques — Éléments filtrants — Méthode de détermination de la résistance à la déformation axiale

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 131, *Fluid power systems*, Subcommittee SC 6,

This second edition cancels and replaces the first edition (ISO 3723:1976), of which it constitutes a minor revision to update the format of this International Standard and to editorially improve Clause 4 and Clause 5.

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a fluid under pressure within an enclosed circuit. Filters maintain fluid cleanliness by removing insoluble contaminants.

The filter element is the porous device which performs the actual process of filtration.

Hydraulic fluid power — Filter elements — Method for end load test

1 Scope

This International Standard specifies a method for verifying the end load rating of a hydraulic fluid power filter element. It also verifies the ability of a hydraulic fluid power filter element to withstand the designated axial loading imposed by installation and use.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2941, *Hydraulic fluid power — Filter elements — Verification of collapse/burst pressure rating*

ISO 2943, *Hydraulic fluid power — Filter elements — Verification of material compatibility with fluids*

ISO 5598, *Fluid power systems and components — Vocabulary*

3 Terms and definitions

For purposes of this document, the terms and definitions in ISO 5598 and the following apply.

3.1
end load
axial force applied to the end of a filter element which can cause permanent deformation or seal failure

3.2
rated end load
maximum specified axial force which can be applied to a filter element without permanent deformation or seal failure

4 Test equipment

Suitable weights or mounting fixtures for applying the designated axial loads to simulate the installation and usage requirements of the filter element undergoing evaluation.

5 Test procedure

5.1 Subject the filter element to the material compatibility test according to ISO 2943.

5.2 After the 72 h hot soak portion of ISO 2943, cool the filter element to room temperature and subject it for 5 min to the axial load designated by the filter manufacturer.

6 Criteria for acceptance

6.1 There shall be no visual evidence of structural, seal, or filter medium failure.