
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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Full standard:
<https://standards.iteh.ai/catalog/standards/sist/9906543b-4022-42ba-8350-286e8ce0d205/iso-3723-2015>



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- 1.x ... — Heading numbers containing modifications are highlighted in yellow in the Table of Contents

All changes in this document have yet to reach consensus by vote and as such should only be used internally for review purposes.

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This Redline version provides you with a quick and easy way to compare the main changes between this edition of the standard and its previous edition. It doesn't capture all single changes such as punctuation but highlights the modifications providing customers with the most valuable information. Therefore it is important to note that this Redline version is not the official ISO standard and that the users must consult with the clean version of the standard, which is the official standard, for implementation purposes.



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes/bodies (ISO member bodies). The work of developing/preparing International Standards is normally carried out through ISO Technical Committees. Every Member Body/technical committees. Each member body interested in a subject for which a technical committee has been set up/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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

~~Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.~~ Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](#)

~~International Standard~~ The committee ISO 3723 was drawn up by Technical Committee responsible for this document is ISO/TC 131, *Fluid power systems and components*, and was circulated to the Member Bodies in March 1975. Subcommittee SC 6,

~~It has been approved by the Member Bodies of the following countries:~~

Australia	India	Sweden
Austria	Italy	Switzerland
Belgium	Japan	Turkey
Brazil	Mexico	United Kingdom
Czechoslovakia	Netherlands	U.S.A.
Finland	Poland	U.S.S.R.
France	Romania	Yugoslavia
Germany	South Africa, Rep. of	
Hungary	Spain	

~~No Member Body expressed disapproval of the document.~~ 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.

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~~0~~ INTRODUCTION

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1 ~~SCOPE AND FIELD OF APPLICATION~~ Scope

~~This International Standard specifies a method for verifying the end load rating for a hydraulic fluid power filter element.~~

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 ~~REFERENCES~~ 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 resistance*, pressure rating

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

ISO 5598, *Fluid power systems and components — Vocabulary*.¹⁾

3 ~~DEFINITIONS~~ Terms and definitions

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

3.1 end load

~~The~~ axial force applied to the end of a filter element which ~~may~~ can cause permanent deformation or seal failure:

3.2 rated end load

~~The~~ maximum specified axial force which can be applied to a filter element without permanent deformation or seal failure:

3.3 ~~For definitions of other terms used, see ISO 5598.~~

4 Test equipment

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

1) ~~In preparation.~~

5 Test procedure

5.1 Subject the filter element to the fabrication integrity and hot soak portions of material compatibility test according to sub-clause 5.3 of ISO 2943.

5.2 After the 72 h hot soak (see portion 5.1) 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 for 5 min.

6 Criteria for acceptance

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

6.2 The filter element shall successfully complete the collapse/burst test in accordance with ISO 2941.

~~7 IDENTIFICATION STATEMENT~~ Identification statement (Reference to this International Standard)

Use the following statement in test reports, catalogues, and sales literature when electing to comply with this International Standard:

“Method of verifying filter element end load rating conforms to ISO 3723, *Hydraulic fluid power — Filter elements — Method for end load test.*”

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