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Hydraulic fluid power — Gas-loaded accumulators with separator — Selection of preferred hydraulic ports

Transmissions hydrauliques — Accumulateurs hydropneumatiques avec séparateur — Sélection des orifices hydrauliques préférentiels

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Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Symbols **2**
5 Dimensions **2**
5.1 General recommendations 2
5.2 Thread connections 2
5.3 Recommendations for ports used with diaphragm type accumulators 2
5.4 Recommendations for ports used with bladder or piston type accumulators 2
5.5 Recommendations for ports used with piston type accumulators 2
6 Identification statement (reference to this document) **2**
Annex A (informative) **Useful pressures** **7**
Bibliography **8**

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Foreword

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This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*.

This first edition cancels and replaces ISO 10946:1999, which has been technically revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit.

Gas-loaded accumulators are components that are able to store and to return energy in accordance with the principle of the compressibility of gases. Hydraulic fluid enters and leaves these accumulators through ports.

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Hydraulic fluid power — Gas-loaded accumulators with separator — Selection of preferred hydraulic ports

1 Scope

This document specifies the types and selection of hydraulic ports of gas-loaded accumulators with separator, which are used in hydraulic fluid power systems.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.1
bladder type accumulator
gas-loaded accumulator in which the liquid and gas are separated by a flexible bag or bladder that is normally retained at one end of the shell

3.2
diaphragm type accumulator
gas-loaded accumulator in which the liquid and gas are separated by a flexible membrane that is normally retained at its largest diameter to the shell

3.3
piston type accumulator
gas-loaded accumulator in which the liquid and gas are separated by a rigid sliding piston

3.4
reducing bush
interface between accumulator and its connection to the hydraulic circuit

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