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Agricultural and forestry tractors and implements — Hydraulic power beyond

Tracteurs agricoles et forestiers et instruments — Puissance hydraulique externe disponible

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Foreword

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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).

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

This second edition cancels and replaces the first edition (ISO 17567:2005), which has been technically revised.

The main change compared to the previous edition is as follows:

— reassignment of flow classes and corresponding flow rates for each of the classes of hydraulic power beyond connections.

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.

Introduction

The number of implements and mounted equipment attached to agricultural and forestry tractors requiring the hydraulic power and control offered by the tractor's hydraulic system has greatly increased in complexity and need for efficient operation in recent years. As a result, many of these implements include specialized valves and require the capability to easily connect, interface, and control the tractor's implement hydraulic system. This document sets forth the interfaces necessary to effectively and properly accomplish the connection of various tractor and implement combinations.

Agricultural and forestry tractors and implements — Hydraulic power beyond

1 Scope

This document defines hydraulic power beyond. It specifies the number, type, capacity, and identification of the connections between agricultural and forestry tractors and implements.

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*

ISO 10448, *Agricultural tractors — Hydraulic pressure for implements*

ISO 16028, *Hydraulic fluid power — Flush-face type, quick-action couplings for use at pressures of 20 MPa (200 bar) to 31,5 MPa (315 bar) — Specifications*

3 Terms and definitions

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

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

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

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

3.1
hydraulic power beyond
agricultural and forestry tractor's hydraulic power and/or control features available to implements independent of the tractor's remote valves

3.2
pressure port
connection used to provide access to the tractor's main source of hydraulic power

3.3
return port
connection for the return flow from the implement or attached equipment

3.4
load signal (pressure) port
connection used to provide access to the tractor's control signal network

3.5
drain port
connection used to provide access to the tractor's lowest pressure *return port* (3.3) for flows such as motor internal leakage