

# INTERNATIONAL STANDARD

**ISO**  
**10448**

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## **Agricultural tractors — Hydraulic pressure for implements**

*Tracteurs agricoles — Pression hydraulique pour les instruments*



Reference number  
ISO 10448:1994(E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10448 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

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# Agricultural tractors — Hydraulic pressure for implements

## 1 Scope

This International Standard specifies the characteristics of the hydraulic pressure from agricultural tractors to connect hydraulic devices on implements, to permit interchangeable use of various types of implements using remote cylinders and other hydraulic devices.

It applies to agricultural tractors intended for interchangeable implements.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 730-1:—<sup>1)</sup>, *Agricultural wheeled tractors — Rear-mounted three-point linkage — Part 1: Categories 1, 2, 3 and 4.*

ISO 789-10:—<sup>2)</sup>, *Agricultural tractors — Test procedures — Part 10: Hydraulic power at tractor/implement interface.*

ISO 5675:1992, *Agricultural tractors and machinery — General purpose quick-action hydraulic couplers.*

ISO 6149-1:1993, *Connections for fluid power and general use — Ports and stud ends with ISO 261 threads and O-ring sealing — Part 1: Ports with O-ring seal in truncated housing.*

ISO 6149-2:1993, *Connections for fluid power and general use — Ports and stud ends with ISO 261 threads and O-ring sealing — Part 2: Heavy-duty (S series) stud ends — Dimensions, design, test methods and requirements.*

ISO 6149-3:1993, *Connections for fluid power and general use — Ports and stud ends with ISO 261 threads and O-ring sealing — Part 3: Light-duty (L series) stud ends — Dimensions, design, test methods and requirements.*

## 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 external hydraulic service:** Source of hydraulic power, derived from the hydraulic system of the agricultural tractor, available for use on an implement mounted on, coupled to or otherwise used in conjunction with it.

**3.2 coupler pair:** Pair of female hydraulic couplers compatible with male couplers specified in ISO 5675, mounted on agricultural tractors and connected to the hydraulic system to allow flow from one coupler to the other.

**3.3 available differential pressure:** Steady state difference in hydraulic pressure between two coupler parts on the implement side.

1) To be published. (Revision of ISO 730-1:1990)

2) To be published.