INTERNATIONAL STANDARD

# ISO 10945

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# Hydraulic fluid power — Gas-loaded accumulators — Dimensions of gas ports

*Transmissions hydrauliques — Accumulateurs hydropneumatiques — Dimensions des orifices gaz*

Reference number
ISO 10945:1994(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 10945 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*.

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# Hydraulic fluid power — Gas-loaded accumulators — Dimensions of gas ports

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## 1 Scope

This International Standard specifies the types and the dimensions of the gas filling ports of gas-loaded accumulators used in hydraulic fluid power systems.

It describes two male ports for filling the gas side of a gas-loaded accumulator. These ports are designated by the following:

— male port with M16 × 2 thread, in accordance with ISO 261 and ISO 724, which is preferred for new designs (see 4.1);

— male port with 8V1 thread in accordance with ISO 4570-1 (see 4.2).

## 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 261:—[1], *ISO general-purpose metric screw threads — General plan.*

ISO 724:1993, *ISO general-purpose metric screw threads — Basic dimensions.*

ISO 4570-1:1977, *Tyre valve threads — Part 1: Threads 5V1, 5V2, 6V1 and 8V1.*

ISO 5598:1985, *Fluid power systems and components — Vocabulary.*

## 3 Definitions

For the purposes of this International Standard, the definitions given in ISO 5598 apply.

## 4 Dimensions

**4.1** For a male port with M16 × 2 threads, the dimensions shall conform to those shown in figure 1.

**4.2** For a male port with 8V1 thread the dimensions shall conform to those shown in figure 2.

## 5 Identification statement (Reference to this International Standard)

It is recommended to manufacturers to use the following statement in test reports, catalogues and sales literature when electing to comply with this International Standard:

"Gas ports for gas-loaded accumulators conforming to ISO 10945:1994, *Hydraulic fluid power — Gas-loaded accumulators — Dimensions of gas ports* ."

1) To be published. (Revision of ISO 261:1973)

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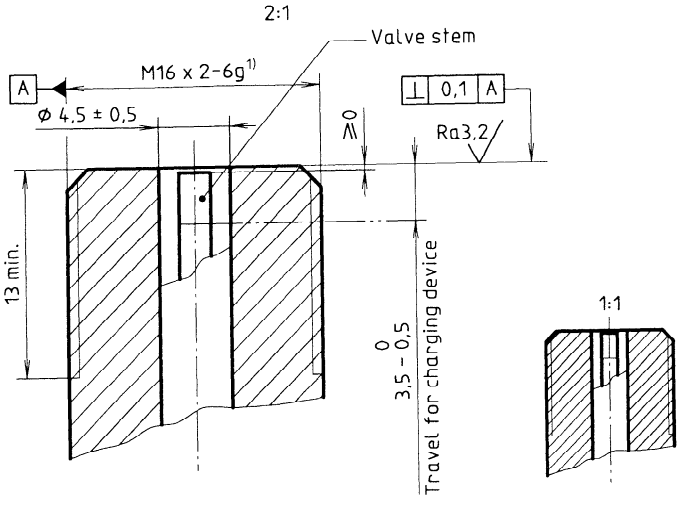
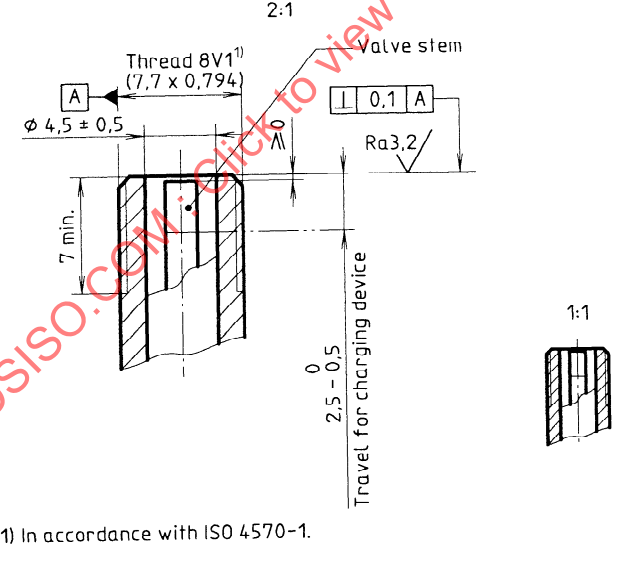
Dimensions in millimetres,
surface roughness in micrometres




1) In accordance with ISO 261 and ISO 724.

**Figure 1 — Dimensions for male port with M16 × 2 threads** (to be used for new designs)

Dimensions in millimetres,
surface roughness in micrometres




1) In accordance with ISO 4570-1.

**Figure 2 — Dimensions for male port 8V1**

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