

Hydraulic Fluid Power — Compensated flow-control valves — Mounting surfaces

ICS 23.100.30

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National foreword



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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 18, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

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INTERNATIONAL STANDARD

**ISO
6263**

Second edition
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Hydraulic fluid power — Compensated flow-control valves — Mounting surfaces

Transmissions hydrauliques — Régulateurs de débit — Plan de pose



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Descriptors: Hydraulic fluid power, hydraulic transmission, hydraulic valves, mounting surfaces, form specifications, dimensions, dimensional tolerances, interchangeability.

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 6263 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products*.

This second edition cancels and replaces the first edition (ISO 6263:1987), which has been technically revised.

Annex A of this International Standard is for information only.

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure with an enclosed circuit. Typical components found in such systems are hydraulic valves. The devices control flow direction, pressure or flow rate of liquids in the enclosed circuit.

1 Scope

This International Standard specifies the dimensions and other data relating to surfaces on which hydraulic compensated flow-control valves are mounted in order to ensure interchangeability.

It applies to mounting surfaces for hydraulic compensated flow-control valves which represent current practice; they are generally applicable to industrial equipment.

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 468:1982, *Surface roughness — Parameters, their values and general rules for specifying requirements*.

ISO 1101:1983, *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location, and run-out — Generalities, definitions, symbols, indications on drawings*.

ISO 1219-1:1991, *Fluid power systems and components — Graphic symbols and circuit diagrams — Part 1: Graphic symbols*.

ISO 1302:1992, *Technical drawings — Method of indicating surface texture*.

ISO 4401:1994, *Hydraulic fluid power — Four-port directional control valves — Mounting surfaces*.

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

ISO 5783:1995, *Hydraulic fluid power — Code for identification of valve mounting surfaces and cartridge valve cavities*.

3 Definitions

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

4 Symbols

4.1 For the purposes of this International Standard, the following symbols apply:

- a) A, B, L, P, T and V designate ports;
- b) F_1 , F_2 , F_3 and F_4 designate threaded holes for fixing screws;
- c) G, G_1 and G_2 designate the location of pin holes;
- d) D designates the fixing screw diameter;
- e) $r_{\max}$ designates mounting surface edge radius.

4.2 The graphical symbols used in Figure 2, Figure 4, Figure 6, Figure 8, Figure 10, Figure 12, Figure 14 and Figure 16 are in accordance with ISO 1219-1.

4.3 The code system used in this International Standard is defined in ISO 5783.

5 Tolerances

5.1 The following values shall be applied to the mounting surface, i.e. that area within the chain thick lines:

- surface roughness: $R_a \leq 0,8 \mu\text{m}$ (see ISO 468 and ISO 1302);
- surface flatness: 0,01 mm over a distance of 100 mm (see ISO 1101);
- tolerance for diameters of locating pin holes: H12.