
International Standard



5783

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Hydraulic fluid power — Code for identification of valve mounting surfaces

Transmissions hydrauliques — Code pour l'identification des plans de pose

First edition — 1981-03-01

iTeh STANDARD PREVIEW
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[ISO 5783:1981](#)

<https://standards.iteh.ai/catalog/standards/sist/041e9ef0-a652-4a6e-9717-31eb400f01e7/iso-5783-1981>

UDC 621.646

Ref. No. ISO 5783-1981 (E)

Descriptors : hydraulic fluid power, mounting surfaces, hydraulic valves, codes, designation.

Price based on 2 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5783 was developed by Technical Committee ISO/TC 131, *Fluid power systems and components*, and was circulated to the member bodies in August 1978.

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It has been approved by the member bodies of the following countries :

Australia	Hungary	South Africa, Rep. of
Austria	India	Spain
Belgium	Ireland	Sweden
Brazil	Italy	Switzerland
Canada	Japan	United Kingdom
Chile	Mexico	USSR
Finland	Netherlands	Yugoslavia
France	Norway	
Germany, F.R.	Romania	

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The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia
USA

Hydraulic fluid power — Code for identification of valve mounting surfaces

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0 Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. The control and the regulation of the fluid are made by valves which can either be directly connected with paths or be mounted on sub-plates.

to ensure interchangeability except main port sizes, locating pins and secondary ports (see note 1 in clause 3);

c) two numerals which specify the main port sizes in accordance with the following table :

Table — Main port sizes according to their diameters

Size	Diameter of main ports mm
00	0 < ϕ < 1,6
01	1,6 < ϕ < 2,5
02	2,5 < ϕ < 4
03	4 < ϕ < 6,3
04	6,3 < ϕ < 10
05	10 < ϕ < 12,5
06	12,5 < ϕ < 16
07	16 < ϕ < 20
08	20 < ϕ < 25
09	25 < ϕ < 31,5
10	31,5 < ϕ < 40
11	40 < ϕ < 50
12	50 < ϕ < 63
13	63 < ϕ < 80

1 Scope and field of application

This International Standard defines an identification code for valve mounting surfaces, located on sub-plates, defined in International Standards.

Non-standard mounting surfaces cannot be identified by this code.

This International Standard does not require that the hardware be marked with the identification code.

2 Identification code

Designate the mounting surfaces by the five groups of numbers or letters indicated below, written in the order given, and separated by dashes :

- a) the reference "ISO" and the number of the International Standard in which the mounting surface is described;
- b) two letters which specify all the necessary information

- d) one numeral which specifies the number of main ports;
- e) one letter which identifies the design variations (see note 2 in clause 3).

3 Example of use of the code

Designate the mounting surface of a 4-port hydraulic directional control valve of maximum main port size 11,2 mm, such as described in ISO 4401, as follows :

ISO 4401 — AC — 05 — 4 — A

NOTES

1 The secretariat of ISO/TC 131/SC 5 [Association française de normalisation (AFNOR), Tour Europe, Cedex 7, 92080 Paris-La Défense, France] keeps the list of the two letters specified in 2 b) up to date and ensures that two mounting surfaces specified in two different International Standards but having the same geometrical impact are designated by the same two letters. They are assigned starting with AA in chronological order.

2 By "design variations" is meant any addition or withdrawal of secondary ports or locating pins and, if necessary, any dimensional change for main ports in so far as such changes do not imply size modifications. Attention is drawn to the fact that a different letter can only be used if a new International Standard is adopted. The letter is assigned starting with A in the chronological order of modifications.

3 If a new International Standard were adopted to modify the mounting surface mentioned in clause 3 and increased the maximum main

port size to 12,5 mm, the new mounting surface would be designated as follows :

ISO... — AC — 05 — 4 — B

If now it were decided in that International Standard to increase the maximum main port size to 14 mm, this mounting surface would be designated as follows :

ISO... — AC — 06 — 4 — A

The letters AC would only be modified for another group of letters if, for example, fixing screw dimensions were changed or the port arrangement were different.

4 This International Standard does not require that the hardware be marked with the identification code.

4 Identification statement (Reference to this International Standard)

Use the following statement in test reports, catalogues and sales literature when electing to comply with this International Standard :

"Mounting surface identification code in accordance with ISO 5783, Hydraulic fluid power — Code for identification of valve mounting surfaces."

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