
Fluidna tehnika - Logična vezja - 2. del: Simboli napajanja in odzračevanja v povezavi z logičnimi simboli

Fluid power systems and components -- Fluid logic circuits -- Part 2: Symbols for supply and exhausts as related to logic symbols

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Transmissions hydrauliques et pneumatiques -- Logique par les fluides -- Partie 2: Symboles pour alimentation et échappement, et règles d'emploi des symboles pour les fonctions logiques

[SIST ISO 5784-2:1997](https://standards.iteh.ai/catalog/standards/sist/3fe75e15-f716-40db-8af6-6f89d7b0e246/sist-iso-5784-2-1997)

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Ta slovenski standard je istoveten z: ISO 5784-2:1989

ICS:

01.080.30	Grafični simboli za uporabo v risbah, diagramih, načrtih, zemljevidih v strojništvu in gradbeništvu ter v ustrezni tehnični proizvodni dokumentaciji	Graphical symbols for use on mechanical engineering and construction drawings, diagrams, plans, maps and in relevant technical product documentation
23.100.01	Hidravlični sistemi na splošno	Fluid power systems in general

SIST ISO 5784-2:1997

en

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INTERNATIONAL STANDARD

ISO 5784-2

First edition
1989-12-15

Fluid power systems and components — Fluid logic circuits —

Part 2 :

Symbols for supply and exhausts as related to logic
symbols

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Transmissions hydrauliques et pneumatiques — Logique par les fluides —

*Partie 2 : Symboles pour alimentation et échappement, et règles d'emploi des
symboles pour les fonctions logiques*



Reference number
ISO 5784-2 : 1989 (E)

ISO 5784-2 : 1989 (E)

Contents

	Page
Foreword	iii
Introduction	iv
1 Scope	1
2 Normative references	1
3 Definitions	1
4 General	1
5 Supply and exhaust connections	2
6 Symbols for unstable and bistable devices with and without complementary outputs	3

<https://standards.iteh.ai/catalog/standards/sist/3fe75e15-f716-40db-8af6-6f89d7b0e246/sist-iso-5784-2-1997>

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 5784-2 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, 4-2:1997

<https://standards.iteh.ai/catalog/standards/sist/3fe75e15-f716-40db-8af6->

ISO 5784 consists of the following parts, under the general title *Fluid power systems and components — Fluid logic circuits* :

- *Part 1: Symbols for binary logic and related functions*
- *Part 2: Symbols for supply and exhausts as related to logic symbols*
- *Part 3: Symbols for logic sequencers and related functions*

Introduction

All connections used in fluid logic control systems assembled with a number of discrete components, interconnected by metal or plastic tubing, including those not carrying binary information, may carry the graphical symbol representing each individual device in order to aid assembly, lay-out and maintenance.

This connection symbol helps to explain the function of the device but does not indicate the physical location of the interconnection.

If safety or other considerations make it desirable, additional codes for numbering certain connections in relation to specific functions may be agreed between suppliers and users on the basis of the general recommendations of this part of ISO 5784.

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Fluid power systems and components — Fluid logic circuits —

Part 2 : Symbols for supply and exhausts as related to logic symbols

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1 Scope

This part of ISO 5784 specifies rules for the use of supply or exhaust symbols in basic logic systems needed by the user for better understanding of pipe connections.

This system of symbols may be used to define functions as well as for diagram circuitry. The rules specified in this part of ISO 5784 are applicable to any type of fluid power binary logic device, with or without moving parts.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5784. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5784 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 1219 : 1976, *Fluid power systems and components — Graphic symbols.*

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

SIST ISO 5784-2:1997

<https://standards.iteh.ai/catalog/standards/sist/6f89d7b0e246/sist-iso-5784-2-1997>
ISO 5784-1 : 1988, *Fluid power systems and components — Fluid logic circuits — Part 1: Symbols for binary logic and related functions.*

IEC 617-12 : 1983, *Graphical symbols for diagrams — Part 12 : Binary logic elements.*

3 Definitions

For the purposes of this part of ISO 5784, the definitions given in ISO 5598 apply.

4 General

4.1 Shape of graphical symbols


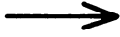
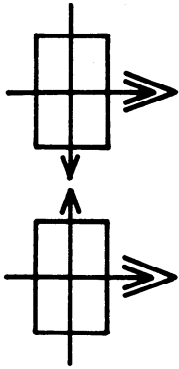
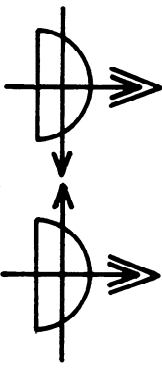
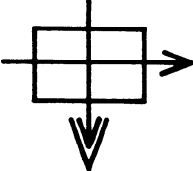
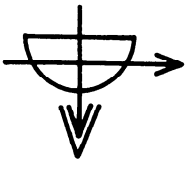
This part of ISO 5784 uses two forms of symbols, in order to be in conformity with ISO 5784-1, in which two forms of symbols are used.

The form A symbols in this part of ISO 5784 are in accordance with IEC 617-12 and are to be preferred; the form B symbols, although currently used, are not to be preferred for future use.

4.2 Signal flow and flow of other quantities

Any connection not carrying information to a component shall be shown perpendicular to the direction of the signal flow.

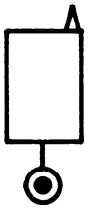

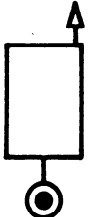
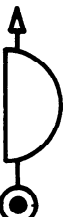
ISO 5784-2 : 1989 (E)

Graphical symbol Form A	Description	Graphical symbol Form B ¹⁾
	 Signal flow  Flow of other quantities	
	When the signal flow direction is from left to right, symbols expressing the input or output of quantities other than signals shall be represented from top to bottom or from bottom to top	
	When the signal flow is from top to bottom, symbols expressing the input and/or outputs of quantities other than signals shall be represented from left to right	
1) This form is not preferred for future use (see 4.1).		

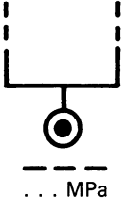
5 Supply and exhaust connections

5.1 The symbols used to show supply and exhaust connections are given in ISO 1219.

5.1.1 Examples

Code number	Graphical symbol Form A	Description	Graphical symbol Form B ¹⁾
5110-05/2		General symbol with supply and open exhaust	
5110-10/2		General symbol with supply and piped exhaust	
1) This form is not preferred for future use (see 4.1).			
NOTE — In the case of hydraulic logic components, the exhaust port is replaced by the drain symbol given in 8.3.1.2 of ISO 1219 : 1976.			

5.1.2 Dual- or multi-pressure supply systems

Code number	Graphical symbol	Description
5120-05/2		When a system requires several different supply pressures, the required pressure for each device shall be indicated at the supply connection
NOTE : 1 MPa = 10 bar		

6 Symbols for unstable and bistable devices with and without complementary outputs

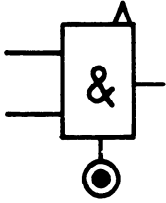
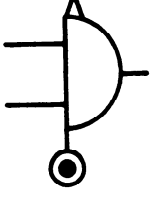
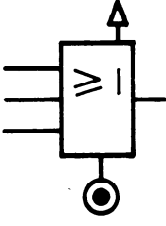
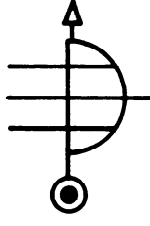
6.1 The rules specified in ISO 5784-1 shall be applied to show unstable or bistable components with or without complementary outputs and exhausts.

6.1.1 Complementary output

In the case of complementary output, the symbol \uparrow shall be located on the side of the envelope close to the corresponding output.

NOTE — The same rule should be applied in the case of multi-pressure supply.

6.1.2 Examples of unstable components with single output

Code number	Graphical symbol Form A	Description	Graphical symbol Form B ¹⁾
6120-05/2		Active AND function with two inputs and open exhaust	
6120-10/2		Active OR function with three inputs and piped exhaust ports	
1) This form is not preferred for future use (see 4.1).			