
INTERNATIONAL STANDARD



3753

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Vacuum technology — Graphical symbols

Technique du vide — Symboles graphiques

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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 3735 was developed by Technical Committee ISO/TC 10, *Technical drawings*, and was circulated to the member bodies in April 1975.

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

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

Czechoslovakia
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Vacuum technology – Graphical symbols

1 SCOPE AND FIELD OF APPLICATION

This International Standard provides graphical symbols for use in vacuum technology.

2 REFERENCE

ISO 3529/II, *Vacuum technology – Vocabulary – Part II : Vacuum pumps and associated terms*.¹⁾

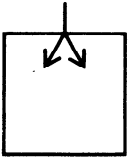
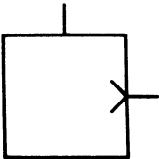
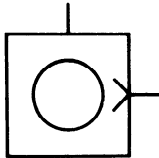
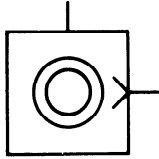
3 GENERAL

For convenience on drawings, it is permitted – with the exception of valves – to change the recommended positioning of inlets and outlets to devices, provided that this does not create confusion among the basic symbols.

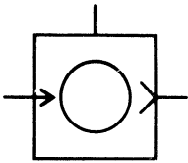
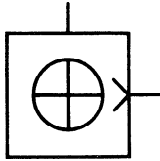
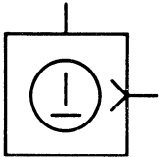
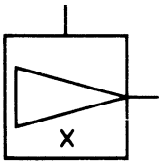
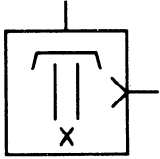
The relative sizes of symbols in combination shall correspond approximately to those shown in the annex.

4 GRAPHICAL SYMBOLS

4.1 Vacuum pumps

No.	Designation	Symbol
4.1	Vacuum pump (type unspecified) NOTE — The arrows are optional and will be omitted when no confusion is possible with another symbol.	
4.1.1	<i>Positive displacement pump</i> (type unspecified)	
4.1.1.1	Sliding vane rotary vacuum pump or rotary piston vacuum pump NOTE — One circle : single-stage; two circles : multistage.	 

1) At present at the stage of draft.

No.	Designation	Symbol
4.1.1.1.1	Gas ballast pump NOTE — One circle : single-stage; two circles : multistage.	
4.1.1.2	Liquid ring vacuum pump NOTE — One circle : single-stage; two circles : multistage.	
4.1.1.3	Roots vacuum pump NOTE — One circle : single-stage; two circles : multistage.	
4.1.1.4	Vapour jet vacuum pump NOTE — The symbol for the fluid may be inserted at x : pump oil = CH, mercury = Hg, water = H ₂ O	
4.1.1.5	Vapour diffusion pump using oil or mercury vapour NOTE — The symbol for the fluid may be inserted at x : pump oil = CH, mercury = Hg	
4.1.1.6	Turbomolecular pump NOTE — The five vertical lines within the circle signify that the pump is multi-stage; the same five lines are always used irrespective of the number of stages.	