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Vacuum technology—Graphical symbols

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Descriptors : graphic symbols, vacuum engineering, vacuum devices

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS Z 8207** : 1991 is replaced with **JIS Z 8207** : 1999.
This revision has made this Standard identical with **ISO 3753** *Vacuum technology—Graphical symbol.*

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Vacuum technology—Graphical symbols

Introduction This Japanese Industrial Standard has been made based on **ISO 3753** *Vacuum technology—Graphical symbols* published in 1977 as the first edition, without changing the technical contents of the corresponding parts (classification and graphical symbols). However, the graphical symbols of some classes which are not specified in the corresponding International Standard are added as a part of Japanese Industrial Standard.

The graphical symbols given in the body of this Standard (**3.1**) to (**3.7**) which are underlined with dots are those for the classes not specified in the corresponding International Standard.

1 Scope This Standard specifies the graphical symbols used in the vacuum technology.

Remarks : The following standard is the corresponding International Standard to this Standard:

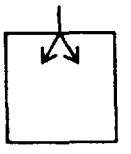
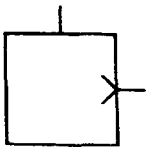
ISO 3753 *Vacuum technology—Graphical symbols*

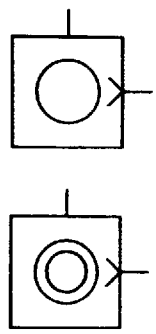
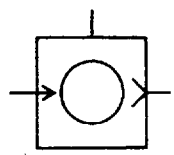
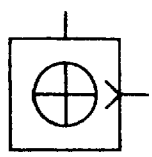
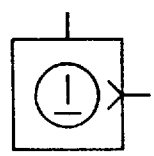
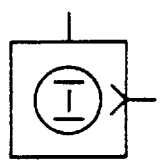
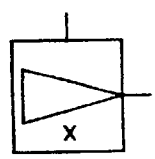
2 General For convenience on drawings, it is permitted—with the exception of valves—to change the recommended positioning of inlets and outlets to devices, provided that this does not create confusion among the basic symbols.

The relative sizes of two or more symbols in combination shall correspond approximately to those shown in Annex (informative).

3 Graphical symbols

3.1 Vacuum pumps

No.	Designation	Symbol
3.1	**Vacuum pump** (type unspecified) Remarks : The arrows are optional and will be omitted when no confusion is possible with another symbol.	
3.1.1	Positive displacement pump (type unspecified)	

No.	Designation	Symbol
3.1.1.1	Sliding vane rotary vacuum pump or piston vacuum pump Remarks : One circle: single stage pump Two circles: two stage pump	
3.1.1.2	Gas ballast pump Remarks : One circle: single stage pump Two circles: two stage pump	
3.1.1.3	Liquid ring vacuum pump Remarks : One circle: single stage pump Two circles: two stage pump	
3.1.1.4	Roots vacuum pump Remarks : One circle: single stage pump Two circles: two stage pump	
3.1.1.5	Dry pump (type unspecified)	
3.1.2.1	Vapour jet vacuum pump Remarks : × is not a part of the symbol. The name of the fluid or the symbol for it may be inserted at this position. Example : Oil = CH, mercury = Hg, water = H_2O	
3.1.2.2	Vapour diffusion pump using oil or mercury vapour Remarks : × is not a part of the symbol. The name of the fluid or the symbol for it may be inserted at this position. Example : Oil = CH, mercury = Hg