

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION

### R 644

**iTeh STANDARD PREVIEW**  
**TO BE USED IN SCHEMES FOR THE INSTALLATIONS**  
**OF VENTILATION SYSTEMS IN SHIPS**

<https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967>

1st EDITION

December 1967

**COPYRIGHT RESERVED**

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

## BRIEF HISTORY

The ISO Recommendation R 644, *Conventional signs to be used in schemes for the installations of ventilation systems in ships*, was drawn up by Technical Committee ISO/TC 8, *Shipbuilding Details*, the Secretariat of which is held by the Nederlands Normalisatie-instituut (NNI).

Work on this question by the Technical Committee began in 1960 and led, in 1965, to the adoption of a Draft ISO Recommendation.

In October 1965, this Draft ISO Recommendation (No. 856) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Argentina	Finland	New Zealand
Australia	France	Poland
Austria	Germany	Spain
Belgium	India	United Kingdom
Brazil	Israel	U.S.S.R.
Canada	Italy	Yugoslavia
Chile	Japan	
Czechoslovakia	Netherlands	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in December 1967, to accept it as an ISO RECOMMENDATION.

**CONVENTIONAL SIGNS  
TO BE USED IN SCHEMES FOR THE INSTALLATIONS  
OF VENTILATION SYSTEMS IN SHIPS**

INTRODUCTION

**iTeh STANDARD PREVIEW**

This ISO Recommendation covers conventional signs to be used in schemes for the installations of ventilation systems in ships.\*

The symbols given in the Tables have been classified in the following manner:

1. General conventional signs . . . . .	page	4
2. Ducts and duct joints . . . . .	”	5
3. Appliances and fittings . . . . .	”	8
4. Ventilators . . . . .	”	12
5. Various conventional signs . . . . .	”	14

The *general conventional signs* concern symbols representing principal parts and appliances.



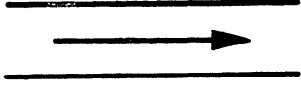

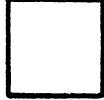
The *other signs* are derived from the general basic signs.

---

\* Other ISO Recommendations for conventional signs to be used in ships:

ISO Recommendation R 538, *Conventional signs to be used in schemes for the installations of pipeline systems in ships.*  
ISO Recommendation R . . . , *Conventional signs to be used in schemes for the installations of sanitary systems in ships*  
(at present Draft ISO Recommendation No. 941).

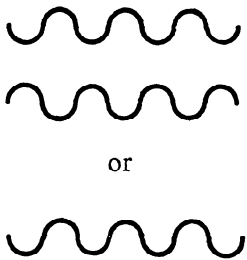
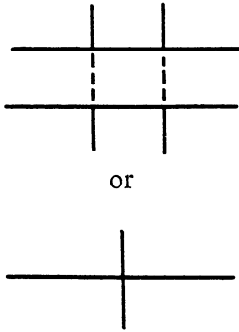
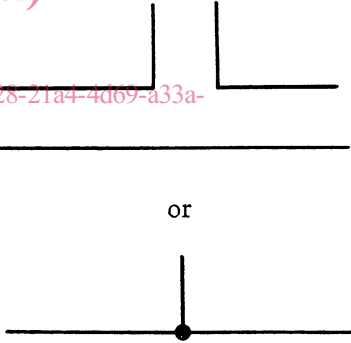
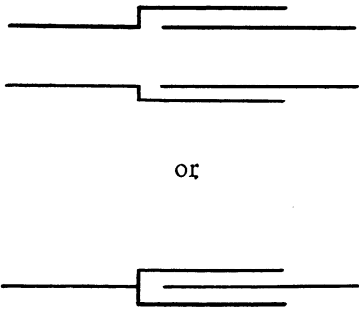
## 1. GENERAL CONVENTIONAL SIGNS

1.1	Duct	 <p style="text-align: center;">or</p> 
1.1.1	Duct with indication of direction of flow	 <p style="text-align: center;">or</p> 
1.2	<p style="text-align: center;"><b>ITeh STANDARD PREVIEW</b> <b>(standards.iteh.ai)</b></p> <p style="text-align: center;"><a href="https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967">ISO/R 644:1967</a> <a href="https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967">https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967</a></p> <p>Apparatus and fitting</p> <p>NOTE. — The square should be either mentioned in the legend of the drawing or accompanied by special abbreviations indicating the fitting concerned.</p>	

## NOTES.

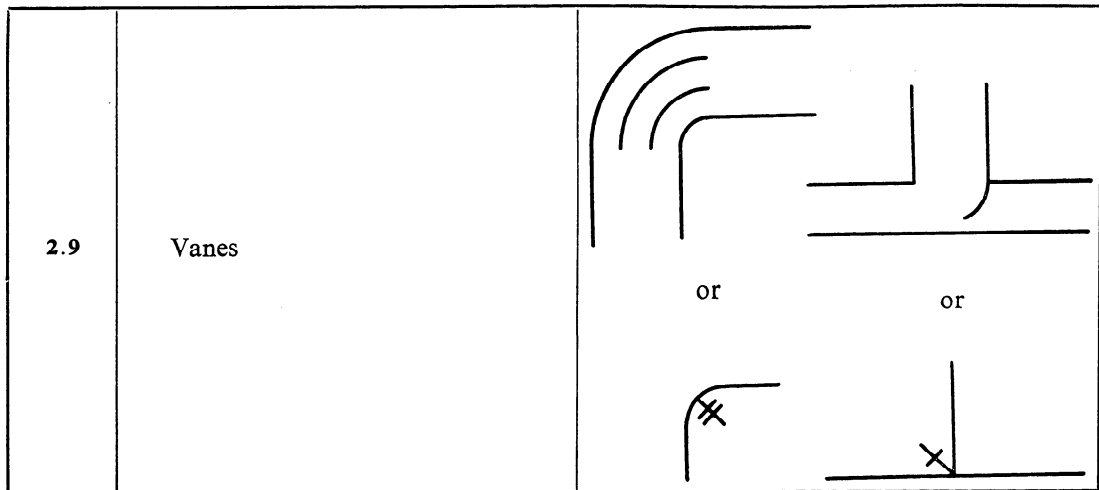
1. Conventional signs, not mentioned in this ISO Recommendation, can be derived from the General conventional signs under section 1, by adding an elucidation to the legend of the drawing.
2. See ISO Recommendation R 538, *Conventional signs to be used in schemes for the installations of pipeline systems in ships*.

## 2. DUCTS AND DUCT JOINTS

2.1	Flexible duct	
2.2	Crossing of ducts not connected	
2.3	<p style="text-align: center;">iTeH STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center;">ISO/R 644:1967 <a href="https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967">https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967</a></p>	
2.4	Compensating joint with gland	

<p>2.5</p>	<p>Bulkhead crossing, watertight, fire resistant</p>	<p>or</p>
<p>2.6</p>	<p>Bulkhead crossing, non watertight, non fire resistant</p>	<p>or</p>
<p>2.7</p>	<p>Duct going upwards (+)</p>	<p>ISO/R.644:1967  <a href="https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967">https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967</a></p> <p>or</p>
<p>2.8</p>	<p>Duct going downwards (-)</p>	<p>or</p>

iTeh STANDARD PREVIEW  
 (standards.iteh.ai)

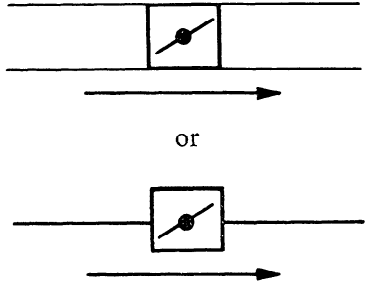
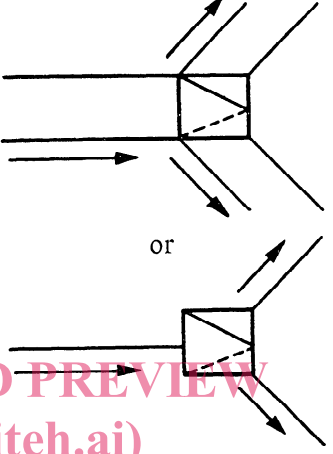
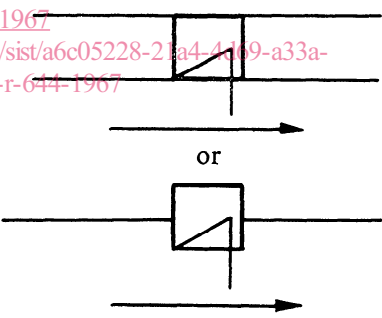
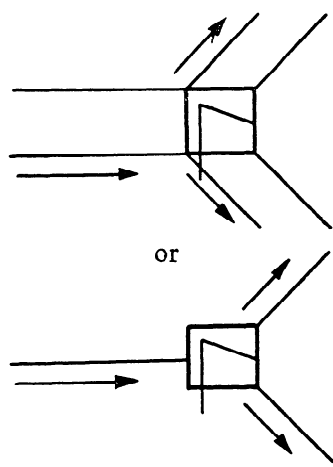


**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO/R 644:1967

<https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-4d69-a33a-c21a98a68866/iso-r-644-1967>

3. APPLIANCES AND FITTINGS

<p>3.1</p>	<p>Butterfly damper</p>	 <p style="text-align: center;">or</p>
<p>3.2</p>	<p>Change over damper</p>	 <p style="text-align: center;">or</p>
<p>3.3</p>	<p>Reducing damper</p>	 <p style="text-align: center;">or</p>
<p>3.4</p>	<p>Distributing damper</p>	 <p style="text-align: center;">or</p>

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

ISO/R 644:1967  
<https://standards.iteh.ai/catalog/standards/sist/a6c05228-21a4-41d9-a33a-c21a98a68866/iso-r-644-1967>

\* The arrow gives the direction of flow of the air, but need not be drawn in drawings and/or schemes.



<p>3.5</p>	<p>Fire damper</p>	
<p>3.6</p>	<p>Air filter</p>	
<p>3.7</p>	<p>Silencer</p>	
<p>3.8</p>	<p>Normal air outlet (↓) NOTE. — Indication for inlet: ↑</p>	
<p>3.9</p>	<p>Punkah louvre outlet</p>	

\* See footnote, page 8.