

INTERNATIONAL STANDARD

ISO
2553

Third edition
1992-10-01

Welded, brazed and soldered joints — Symbolic representation on drawings

Joints soudés et brasés — Représentations symboliques sur les dessins



Reference number
ISO 2553:1992(E)

Contents

	Page
1 Scope	1
2 Normative references	1
3 General	1
4 Symbols	2
4.1 Elementary symbols	2
4.2 Combinations of elementary symbols	5
4.3 Supplementary symbols	6
5 Position of the symbols on drawings	8
5.1 General	8
5.2 Relationship between the arrow line and the joint	8
5.3 Position of the arrow line	10
5.4 Position of the reference line	10
5.5 Position of the symbol with regard to the reference line ...	11
6 Dimensioning of welds	12
6.1 General rules	12
6.2 Main dimensions to be shown	12
7 Complementary indications	18
7.1 Peripheral welds	18
7.2 Field or site welds	18
7.3 Indication of the welding process	18
7.4 Sequence of information in the tail of the reference mark	18
8 Examples for application of spot and seam joints	19

© ISO 1992

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

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

Printed in Switzerland

Annexes

A	Examples of use of symbols	22
B	Guidance for converting drawings made in accordance with ISO 2553:1974 into the new system in accordance with ISO 2553:1991	50

STANDARDSISO.COM : Click to view the full PDF of ISO 2553:1992

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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2553 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Sub-Committee SC 7, *Representation and terms*.

This third edition cancels and replaces the second edition (ISO 2553:1984), which has been technically revised to include ISO 2553/DAD 1:1987.

Annexes A and B of this International Standard are for information only.

Welded, brazed and soldered joints — Symbolic representation on drawings

1 Scope

This International Standard prescribes the rules to be applied for the symbolic representation of welded, brazed and soldered joints on drawings.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 128:1982, *Technical drawings — General principles of presentation*.

ISO 544:1989, *Filler materials for manual welding — Size requirements*.

ISO 1302:1978, *Technical drawings — Method of indicating surface texture on drawings*.

ISO 2560:1973, *Covered electrodes for manual arc welding of mild steel and low alloy steel — Code of symbols for identification*.

ISO 3098-1:1974, *Technical drawings — Lettering — Part 1: Currently used characters*.

ISO 3581:1976, *Covered electrodes for manual arc welding of stainless and other similar high alloy steels — Code of symbols for identification*.

ISO 4063:1990, *Welding, brazing, soldering and braze welding of metals — Nomenclature of processes and*

reference numbers for symbolic representation on drawings.

ISO 5817:1992, *Arc-welded joints in steel — Guidance on quality levels for imperfections*.

ISO 6947:1990, *Welds — Working positions — Definitions of angles of slope and rotation*.

ISO 8167:1989, *Projections for resistance welding*.

ISO 10042:—¹⁾, *Arc-welded joints in aluminium and its weldable alloys — Guidance on quality levels for imperfections*.

3 General

3.1 Joints may be indicated with the general recommendations for technical drawings. However, for the purpose of simplification, it is advisable to adopt, for usual joints, the symbolic representation described in this International Standard.

3.2 The symbolic representation shall give clearly all necessary indications regarding the specific joint to be obtained without over-burdening the drawing with notes or showing an additional view.

3.3 This symbolic representation includes an elementary symbol which may be completed by

- a supplementary symbol;
- a means of showing dimensions;
- some complementary indications (particularly for workshop drawings).

3.4 In order to simplify the drawings as much as possible it is recommended that references be made to specific instructions or particular specifications giving all details of the preparation of edges to be

1) To be published.

welded, brazed and soldered and/or welding, brazing and soldering procedures, rather than showing these indications on the drawings of the welded parts.

If there are no such instructions, the dimensions relating to the preparation of the edges to be welded, brazed and soldered and/or welding, brazing and soldering procedures can be close to the symbol.

4 Symbols

4.1 Elementary symbols

The various categories of joints are characterized by a symbol which, in general, is similar to the shape of the weld to be made.

The symbol shall not be taken to prejudice the process to be employed.

The elementary symbols are shown in table 1.

If the joint should not be specified but only be represented that the joint will be welded, brazed or soldered, the following symbol shall be used:

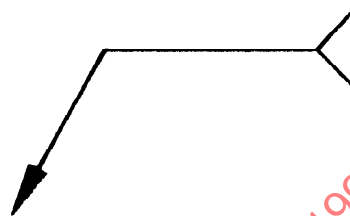
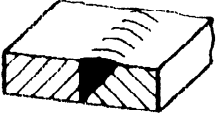
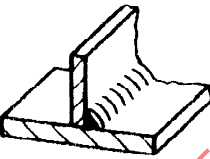
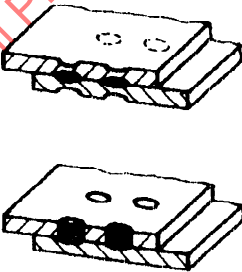
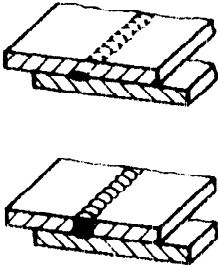
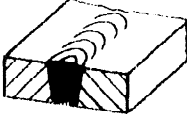
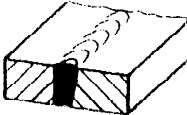
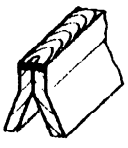
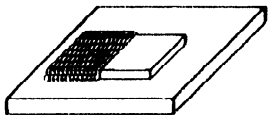
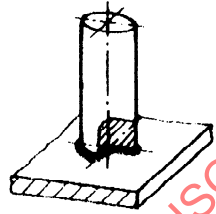


Table 1 — Elementary symbols

No.	Designation	Illustration	Symbol
1	Butt weld between plates with raised edges ¹⁾ ; edge flanged weld /USA/ (the raised edges being melted down completely)		
2	Square butt weld		
3	Single-V butt weld		
4	Single-bevel butt weld		
5	Single-V butt weld with broad root face		
6	Single-bevel butt weld with broad root face		
7	Single-U butt weld (parallel or sloping sides)		

No.	Designation	Illustration	Symbol
8	Single-J butt weld		
9	Backing run; back or backing weld /USA/		
10	Fillet weld		
11	Plug weld; plug or slot weld /USA/		
12	Spot weld		
13	Seam weld		
14	Steep-flanked single-V butt weld		
15	Steep-flanked single-bevel butt weld		

No.	Designation	Illustration	Symbol
16	Edge weld		
17	Surfacing		
18	Surface joint		
			
19	Inclined joint		
20	Fold joint		
1) Butt welds between plates with raised edges (symbol 1) not completely penetrated are symbolized as square butt welds (symbol 2) with the weld thickness s shown (see table 5)			

4.2 Combinations of elementary symbols

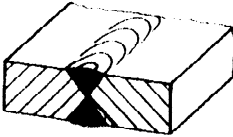
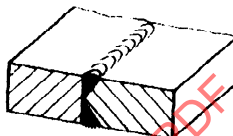
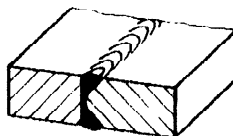
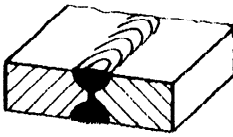
When required, combinations of elementary symbols can be used.

The elementary symbols are to be combined for welding from both sides in such a manner arranging the applicable elementary symbols symmetrical to the reference line. Typical examples are given in

table 2 and applications for symbolic representation in table A.2.

NOTE 1 Table 2 gives a collection of combinations of elementary symbols for symmetrical welds. For the symbolic representation the elementary symbols are arranged symmetrically at the reference line (see table A.2). For the use of symbols out of symbolic representation the symbols may be represented without the reference line.

Table 2 — Combined symbols for symmetrical welds (examples)

Designation	Illustration	Symbol
Double-V butt weld (X weld)		
Double-bevel butt weld		
Double-V butt weld with broad root face		
Double-bevel butt weld with broad root face		
Double-U butt weld		

4.3 Supplementary symbols

Elementary symbols may be completed by a symbol characterizing the shape of the external surface or the shape of the weld.

The recommended supplementary symbols are given in table 3.

The absence of a supplementary symbol means that the shape of the weld surface does not need to be indicated precisely.

Examples of combinations of elementary and supplementary symbols are given in tables 4 and A.3.

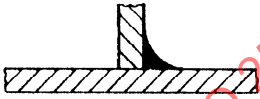
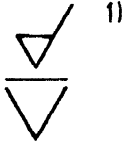
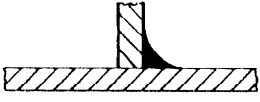
NOTE 2 Although it is not forbidden to associate several symbols, it is better to represent the weld on a separate sketch when symbolization becomes too difficult.

Table 3 — Supplementary symbols

Shape of weld surface or weld	Symbol
a) Flat (usually finished flush)	—
b) Convex	
c) Concave	
d) Toes shall be blended smoothly	
e) Permanent backing strip used	
f) Removable backing strip used	

Table 4 gives examples of application of the supplementary symbols.

Table 4 — Examples of application of supplementary symbols

Designation	Illustration	Symbol
Flat (flush) single-V butt weld		
Convex double-V weld		
Concave fillet weld		
Flat (flush) single-V butt weld with flat (flush) backing run		
Single-V butt weld with broad root face and backing run		
Flush finished single-V butt weld		 ¹⁾
Fillet weld with smooth blended face		
¹⁾ Symbol in accordance with ISO 1302; instead of this symbol the main symbol $\sqrt{\quad}$ can be used.		

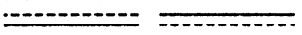
5 Position of the symbols on drawings

5.1 General

The symbols covered by these rules form only part of the complete method of representation (figure 1), which comprises in addition to the symbol (3) itself:

- an arrow line (1) per joint (see figure 2 and figure 3);
- a dual reference line, consisting of two parallel lines, one continuous and one dashed (2) (exception, see note 3);
- a certain number of dimensions and conventional signs.

NOTES

3 The dashed line can be drawn either above or beneath the continuous line  (see also 5.5 and annex B).

For symmetrical welds, the dashed line is unnecessary and should be omitted.

4 The thickness of lines for arrow line, reference line, symbol and lettering shall be in accordance with the thickness of line for dimensioning in accordance with ISO 128 and ISO 3098-1, respectively.

The purpose of the following rules is to define the location of welds by specifying

- the position of the arrow line;
- the position of the reference line;
- the position of the symbol.

The arrow line and the reference line form the complete reference mark. If details are given, e.g. for processes, acceptance levels, position, filler and auxiliary materials (see clause 7), a tail shall be added at the end of the reference line.

5.2 Relationship between the arrow line and the joint

The examples given in figure 2 and figure 3 explain the meaning of the terms

- "Arrow side" of the joint;
- "Other side" of the joint.

NOTE 5 The position of the arrow in these figures is chosen for purposes of clarity. Normally, it would be placed immediately adjacent to the joint.

NOTE 6 See figure 2.

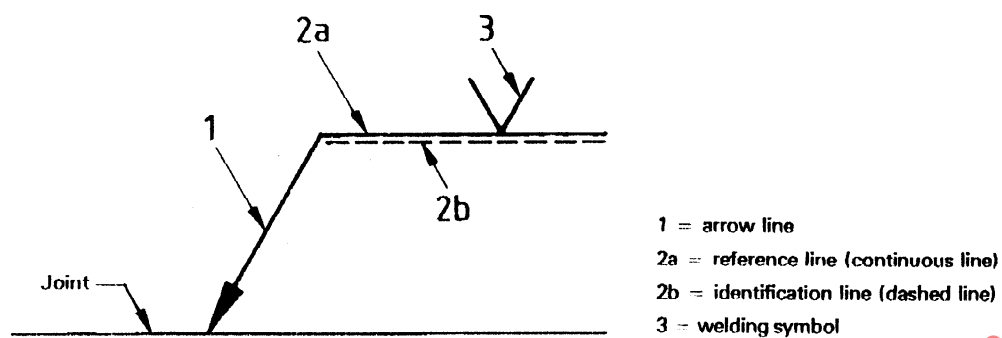


Figure 1 — Method of representation

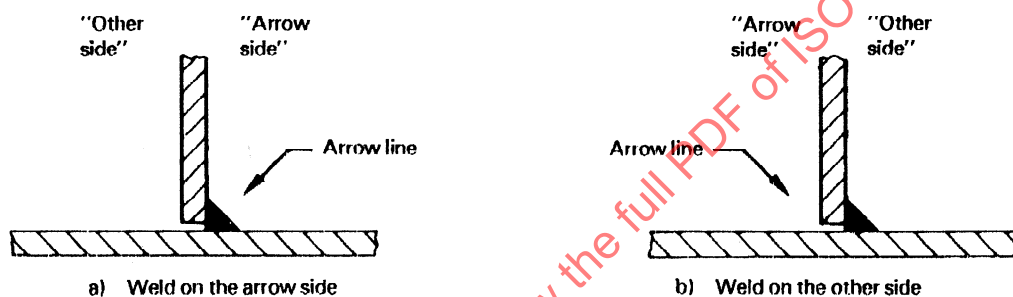


Figure 2 — T joint with one fillet weld

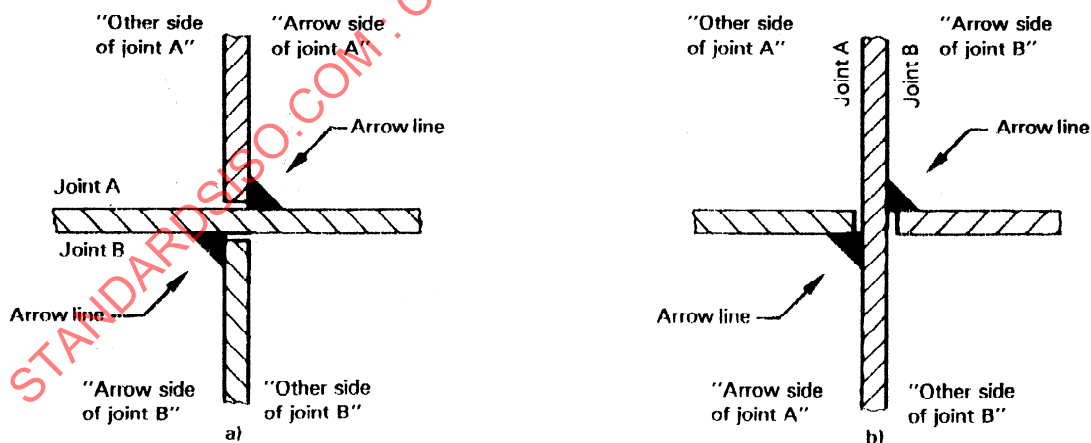


Figure 3 — Cruciform joint with two fillet welds

5.3 Position of the arrow line

The position of the arrow line with respect to the weld is generally of no special significance [see figures 4 a) and 4 b)]. However, in the case of welds of types 4, 6 and 8 (see table 1), the arrow line shall point towards the plate which is prepared [see figures 4 c) and 4 d)].

The arrow line

- joins one end of the continuous reference line such that it forms an angle with it;
- shall be completed by an arrow head.

5.4 Position of the reference line

The reference line shall preferably be drawn parallel to the bottom edge of the drawing, or if impossible perpendicular.

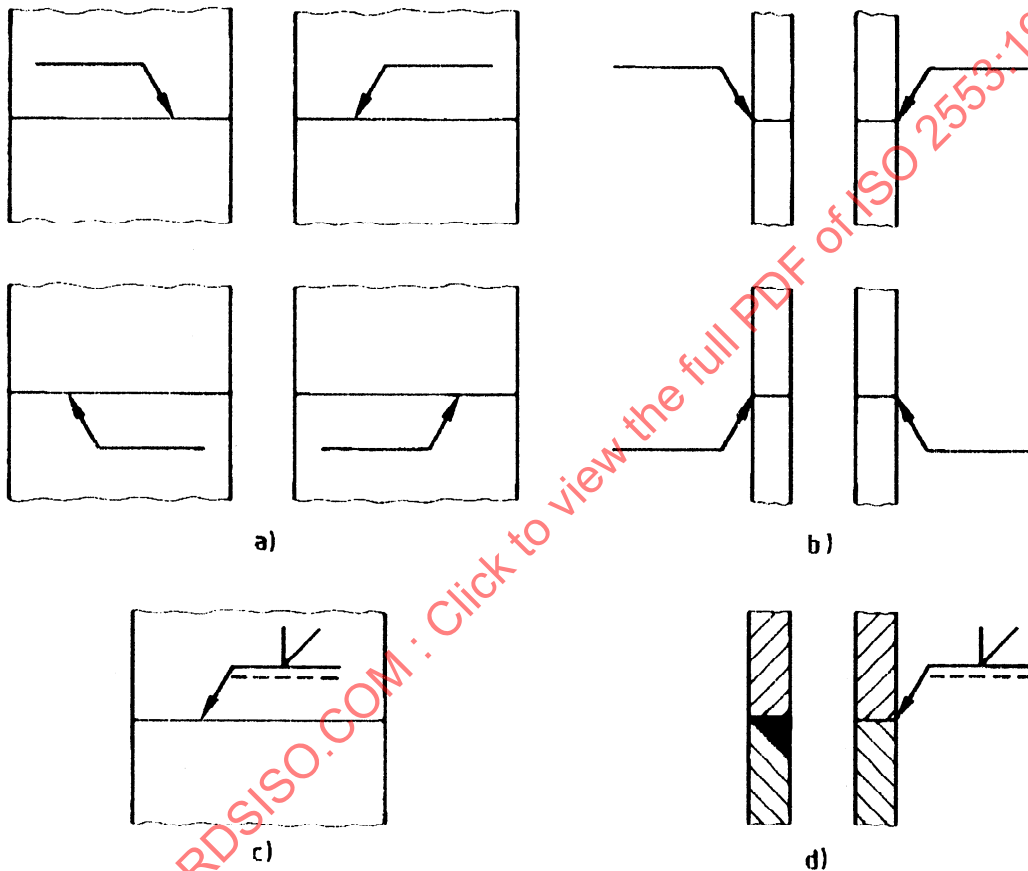


Figure 4 — Position of the arrow line

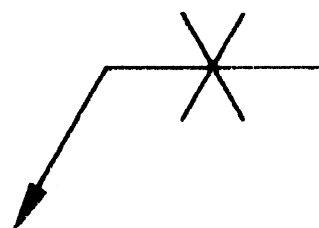
5.5 Position of the symbol with regard to the reference line

The symbol is to be placed either above or beneath the reference line, in accordance with the following regulation:

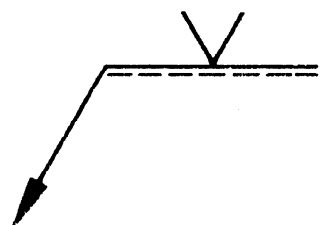
- The symbol is placed on the continuous line side of the reference line if the weld (weld face) is on the arrow side of the joint [see figure 5 a)].

- The symbol is placed on the dashed line side if the weld (weld face) is on the other side of the joint [see figure 5 b)].

NOTE 7 In the case of spot welds made by projection welding, the projection surface is to be considered as the external surface of the weld.



For symmetrical welds only



a) To be welded on the arrow side



b) To be welded on the other side

Figure 5 — Position of the symbol according to the reference line

6 Dimensioning of welds

6.1 General rules

Each weld symbol may be accompanied by a certain number of dimensions.

These dimensions are written as follows, in accordance with figure 6:

- the main dimensions relative to the cross-section are written on the left-hand side of (i.e. before) the symbol;
- longitudinal dimensions are written on the right-hand side of (i.e. after) the symbol.

The method of indicating the main dimensions is defined in table 5. The rules for setting down these dimensions are also given in this table.

Other dimensions of less importance may be indicated if necessary.

6.2 Main dimensions to be shown

The dimension that locates the weld in relation to the edge of the sheet shall not appear in the symbolization but on the drawing.

6.2.1 The absence of any indication following the symbol signifies that the weld is to be continuous over the whole length of the workpiece.

6.2.2 In the absence of any indication to the contrary, butt welds are to have complete penetration.

6.2.3 For the fillet welds there are two methods to indicate dimensions (see figure 7). Therefore, the letters *a* or *z* shall always be placed in front of the value of the corresponding dimension as follows:



To indicate deep penetration of fillet welds the throat thickness is *s*, see figure 8.

6.2.4 In the case of plug or slot welds with bevelled edges, it is the dimension at the bottom of the hole which shall be taken into consideration.

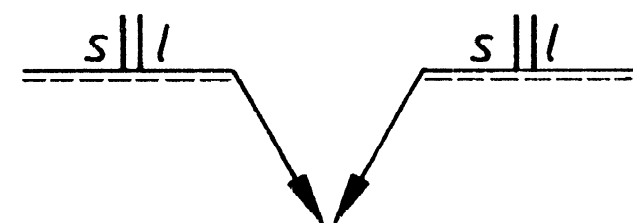


Figure 6 — Examples of the principle

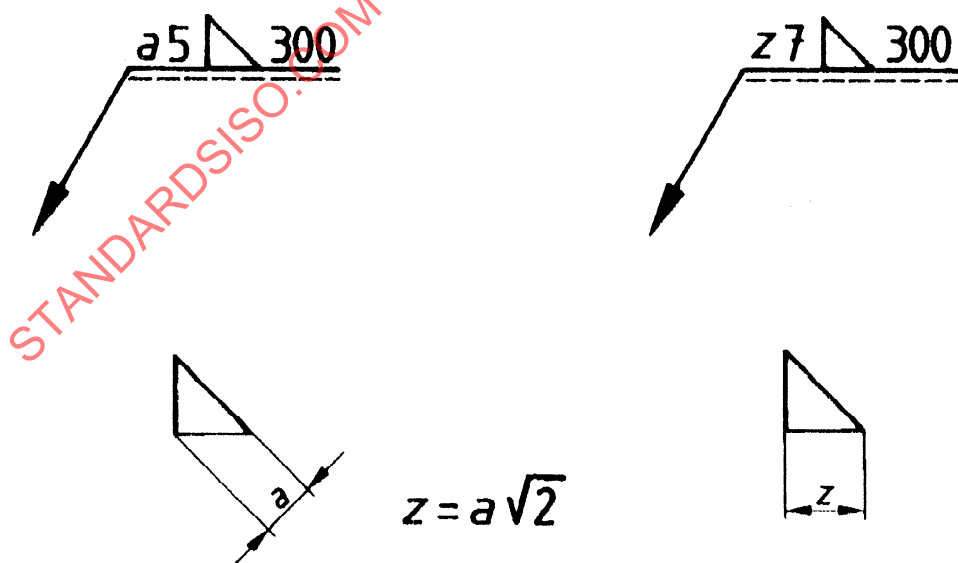
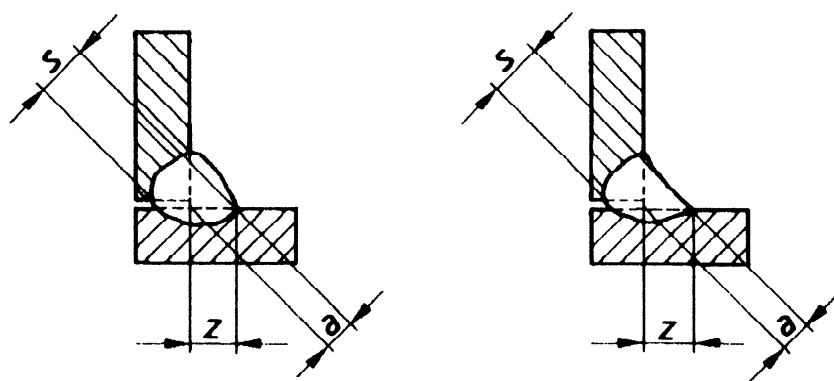


Figure 7 — Methods of indicating dimensions for fillet welds

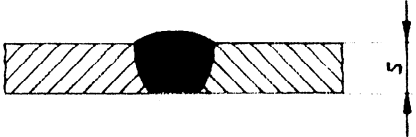
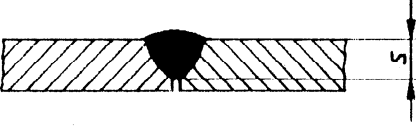
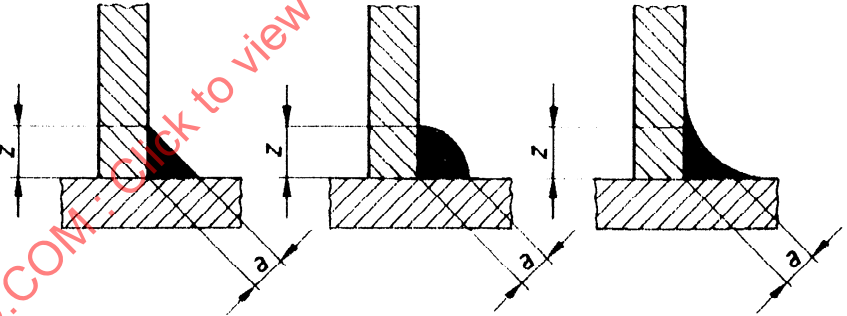
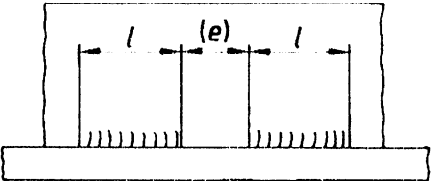


NOTE — For deep penetration of fillet welds, the dimensions are indicated as $s8a6 \Delta$, for example.

Figure 8 — Methods of indicating dimensions for deep penetration of fillet welds

STANDARDSISO.COM : Click to view the full PDF of ISO 2553:1992

Table 5 — Main dimensions

No.	Designation of welds	Illustration
1	Butt weld	
		
		
2	Butt weld between plates with raised edges	
3	Continuous fillet weld	
4	Intermittent fillet weld	

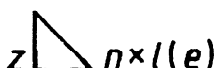
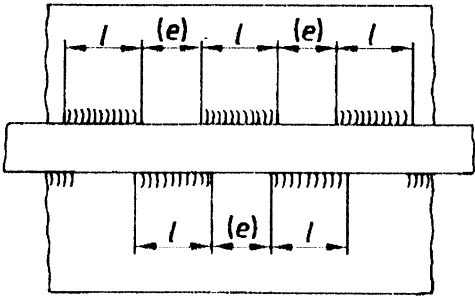
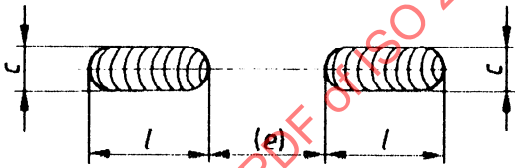
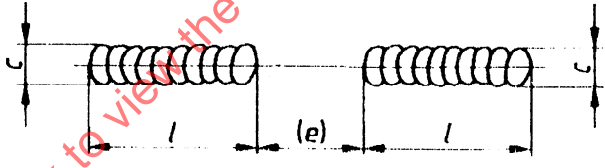
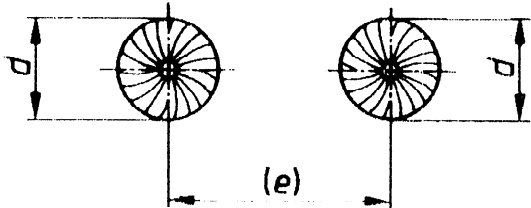
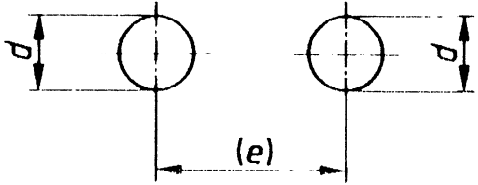
Definition	Inscription
s : minimum distance from the surface of the part to the bottom of the penetration, which cannot be greater than the thickness of the thinner part.	 (see 6.2.1 and 6.2.2)
	$s \parallel$ (see 6.2.1)
	$s Y$ (see 6.2.1)
s : minimum distance from the external surface of the weld to the bottom of the penetration.	$s \parallel$ [see 6.2.1 and footnote 1) to table 1]
a : height of the largest isosceles triangle that can be inscribed in the section. z : side of the largest isosceles triangle that can be inscribed in the section.	  (see 6.2.1 and 6.2.3)
l : length of weld (without end craters). (e) : distance between adjacent weld elements. n : number of weld elements. a : z : } (see No. 3)	  (see 6.2.3)

Table 5 — Main dimensions (concluded)

No.	Designation of welds	Illustration
5	Staggered intermittent fillet weld	
6	Plug or slot weld	
7	Seam weld	
8	Plug weld	
9	Spot weld	

Definition	Inscription
$\left. \begin{array}{l} l : \\ (e) : \\ n : \end{array} \right\} \quad \text{(see No. 4)}$ $\left. \begin{array}{l} a : \\ z : \end{array} \right\} \quad \text{(see No. 3)}$	$\frac{a}{a} \triangleright \frac{n \times l}{n \times l} \left[\begin{array}{l} (e) \\ (e) \end{array} \right]$ $\frac{z}{z} \triangleright \frac{n \times l}{n \times l} \left[\begin{array}{l} (e) \\ (e) \end{array} \right]$ (see 6.2.3)
$\left. \begin{array}{l} l : \\ (e) : \\ n : \end{array} \right\} \quad \text{(see No. 4)}$ $c :$ width of slot	$c \sqcap n \times l (e)$ (see 6.2.4)
$\left. \begin{array}{l} l : \\ (e) : \\ n : \end{array} \right\} \quad \text{(see No. 4)}$ $c :$ width of weld	$c \ominus n \times l (e)$
$n :$ (see No. 4) $(e) :$ spacing $d :$ diameter of hole	$d \sqcap n (e)$
$n :$ (see No. 4) $(e) :$ spacing $d :$ diameter of spot	$d \bigcirc n (e)$

7 Complementary indications

Complementary indications may be necessary in order to specify some other characteristics of welds. For example:

7.1 Peripheral welds

When the weld is to be made all around a part, the symbol is a circle, as shown in figure 9.

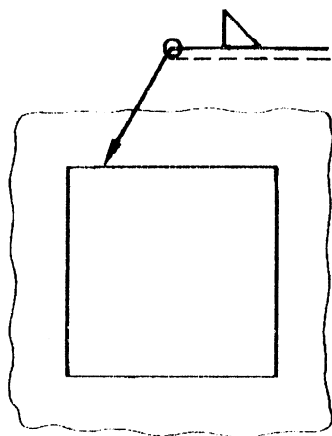


Figure 9 — Indication of peripheral weld

7.2 Field or site welds

A flag is to be used to indicate the field or site weld, as shown in figure 10.

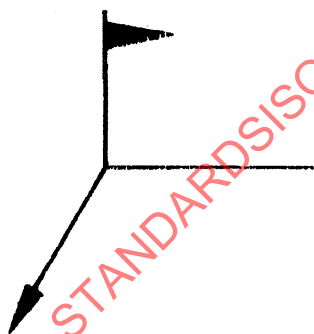


Figure 10 — Indication of field or site weld

7.3 Indication of the welding process

If required, the welding process is to be symbolized by a number written between the two branches of a

fork, at the end of the reference line remote from the reference line.

Figure 11 gives an example of its use.

The list giving the correspondance between the numbers and the process is given in ISO 4063.

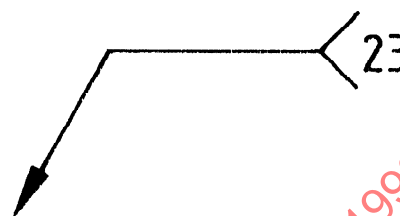


Figure 11 — Indication of welding process

7.4 Sequence of information in the tail of the reference mark

The information for joints and the dimensions can be supplemented by further information in the tail, in the following order:

- process (e.g. in accordance with ISO 4063);
- acceptance level (e.g. in accordance with ISO 5817 and ISO 10042);
- working position (e.g. in accordance with ISO 6947);
- filler materials (e.g. in accordance with ISO 544, ISO 2560, ISO 3581).

The individual items are to be separated by / (solidus).

In addition, a closed tail is possible which indicates specific instruction (e.g. procedure sheet) by a reference sign, see figure 12.

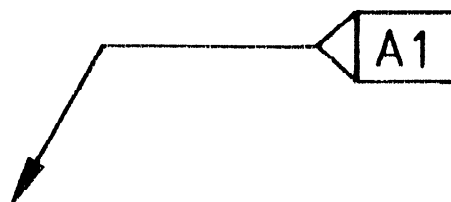


Figure 12 — Reference information

EXAMPLE

Single-V butt weld with backing run (see figure 13), produced by manual metal-arc welding (reference number 111 in accordance with ISO 4063), required acceptance level in accordance with ISO 5817, flat position PA in accordance with ISO 6947, covered electrode ISO 2560-E 51 2 RR 22.

8 Examples for application of spot and seam joints

In the case of seam and spot joints (welded, brazed or soldered), joints are made at the interface between the two lapped parts or by melt-through of one of the two parts (see figures 14 and 15).

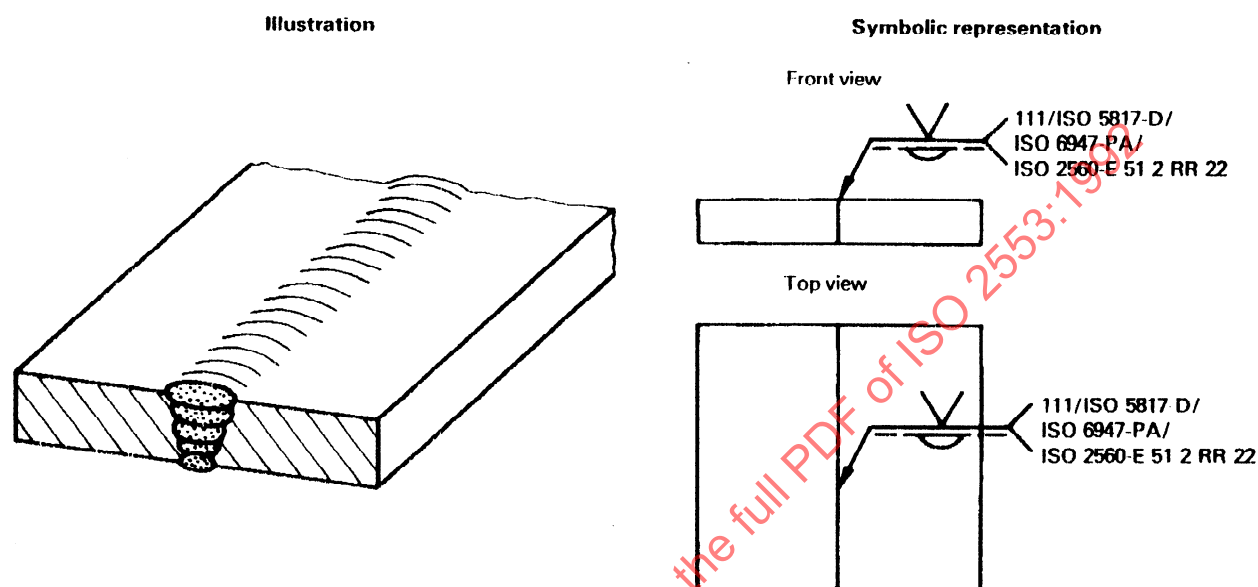


Figure 13 — Single-V butt weld with backing run

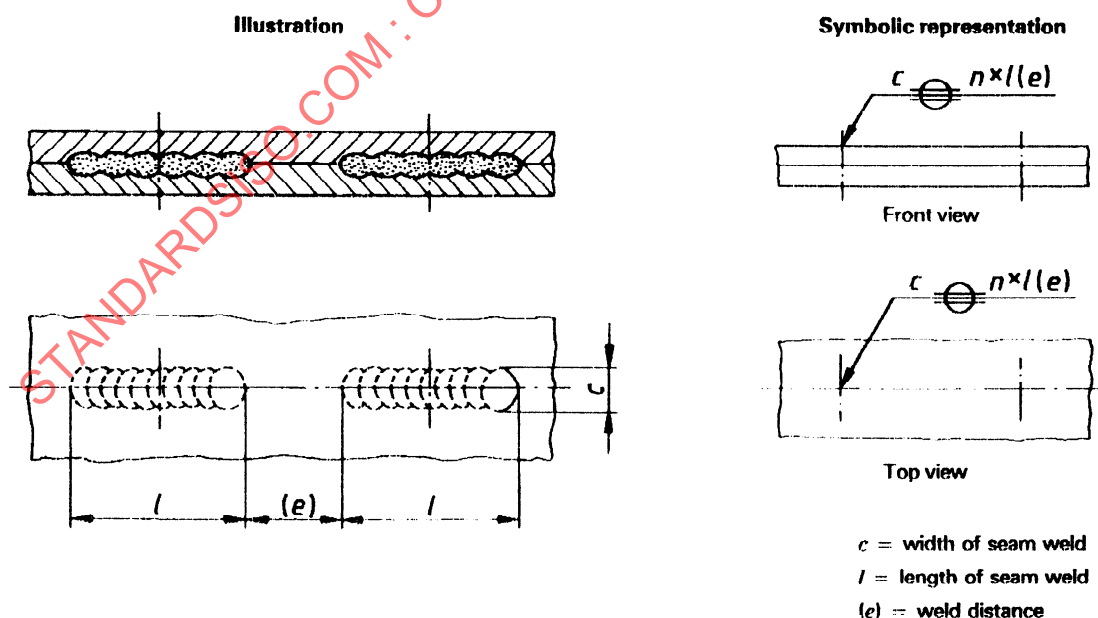


Figure 14 — Intermittent resistance seam welds

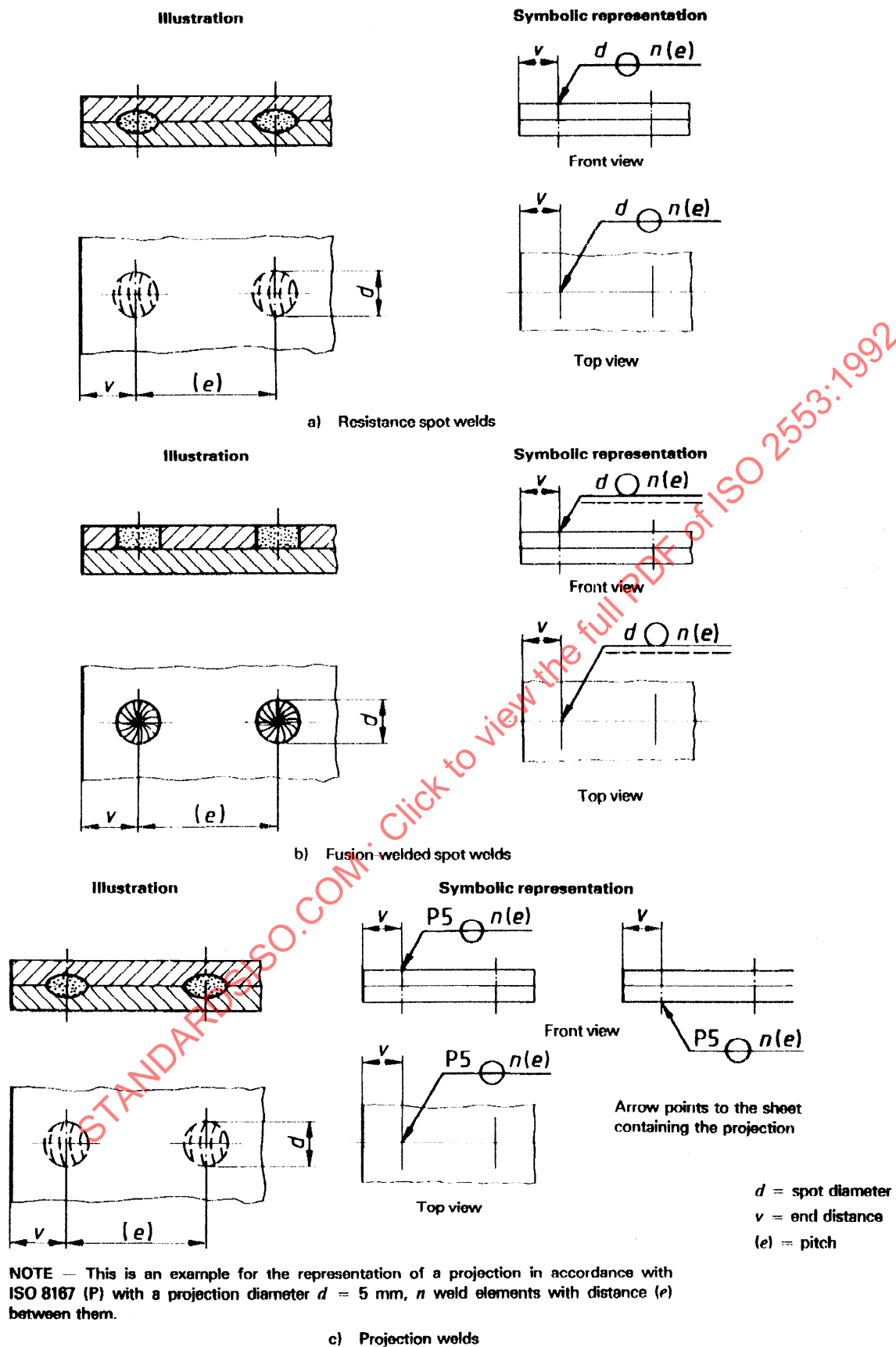


Figure 15 — Spot welds

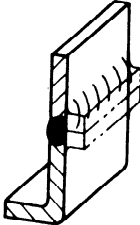
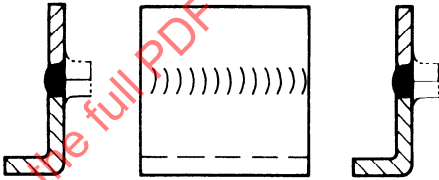
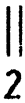
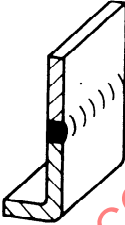
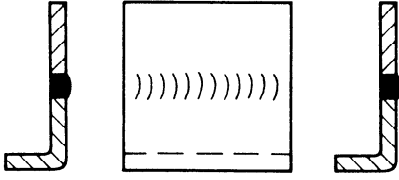
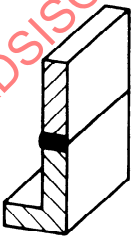
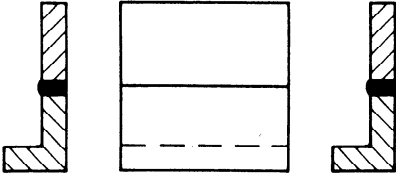
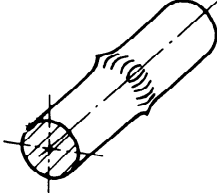
STANDARDSISO.COM : Click to view the full PDF of ISO 2553:1992

Annex A
(informative)

Examples of use of symbols

Tables A.1 to A.4 give some examples of the use of symbols. The representations shown are given simply for explanation.

Table A.1 — Examples of the use of elementary symbols

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
1	Butt weld be- tween plates with raised edges 		
2	Square butt weld 		
3			
4			

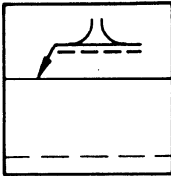
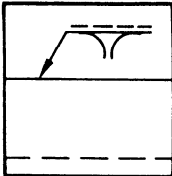
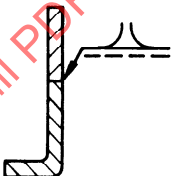
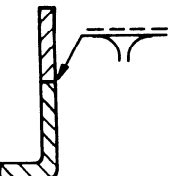
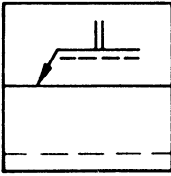
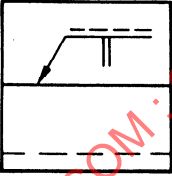
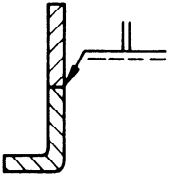
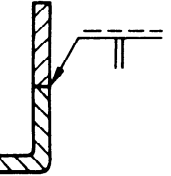
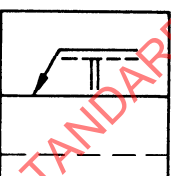
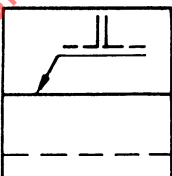
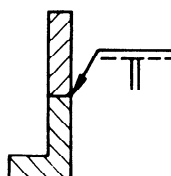
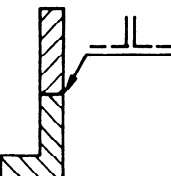
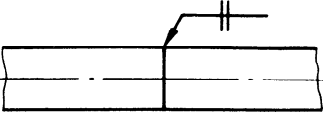
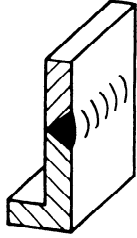
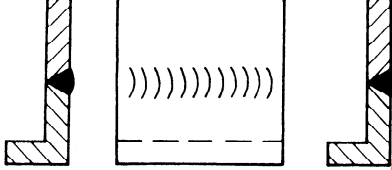
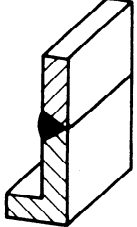
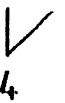
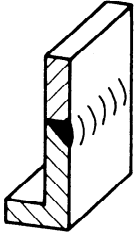
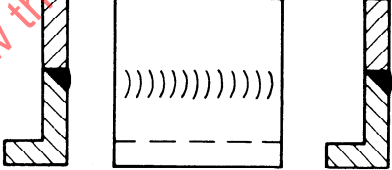
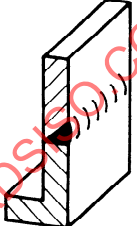
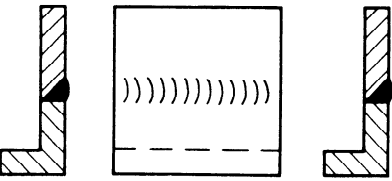
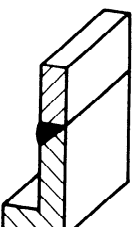
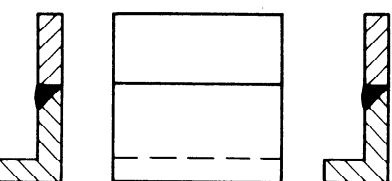
Symbolization	
either	or
 	 
 	 
 	 
	

Table A.1 — Examples of the use of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
			
5	Single-V butt weld 		
6			
7	Single-bevel butt weld 		
8			
9			

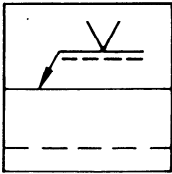
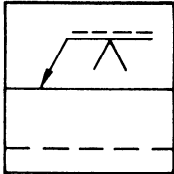
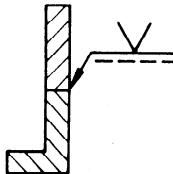
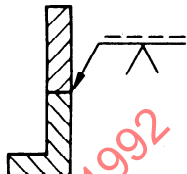
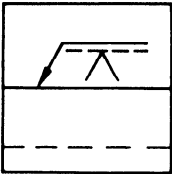
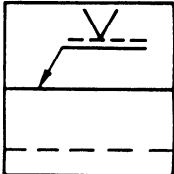
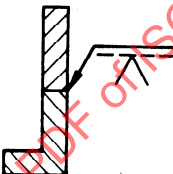
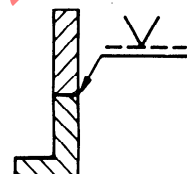
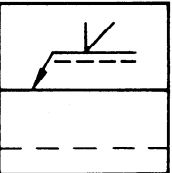
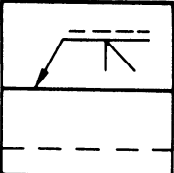
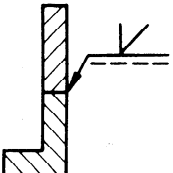
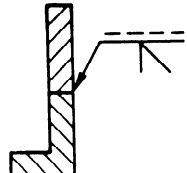
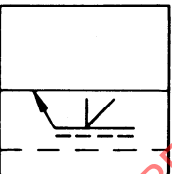
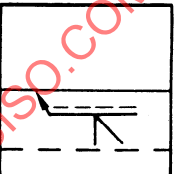
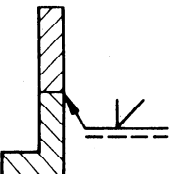
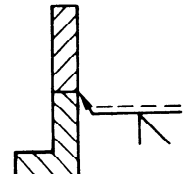
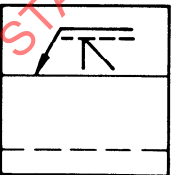
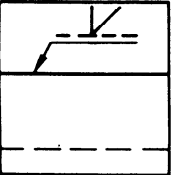
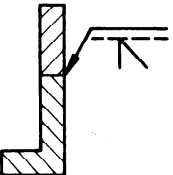
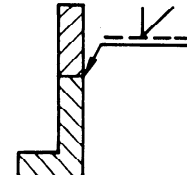
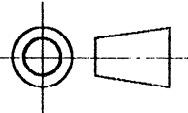
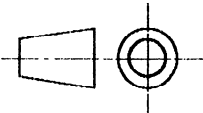
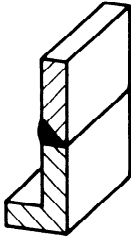
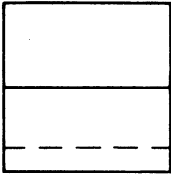
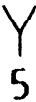
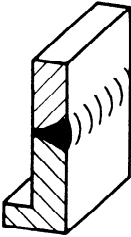
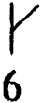
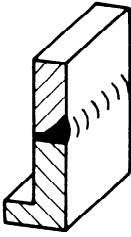
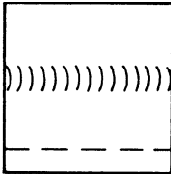
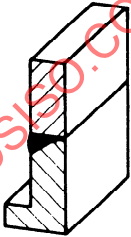
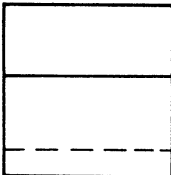
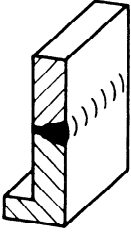
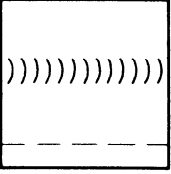
Symbolization	
either	or
 	 
 	 
 	 
 	 
 	 

Table A.1 — Examples of the use of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation	
				
10	Single-bevel butt weld 			
11	Single-V butt weld with broad root face 			
12	Single-bevel butt weld with broad root face 			
13				
14	Single-U butt weld 			

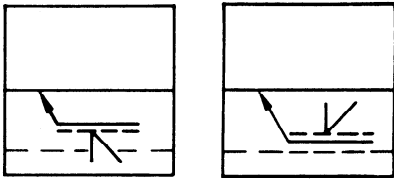
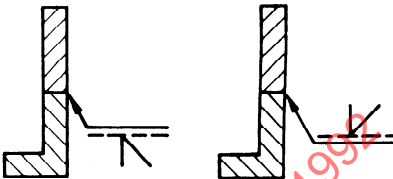
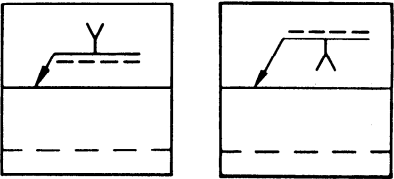
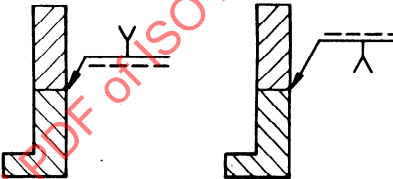
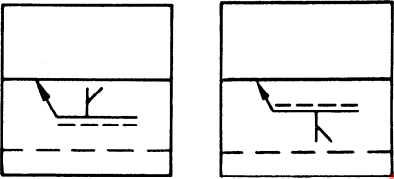
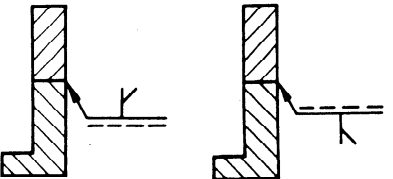
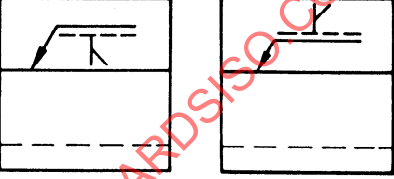
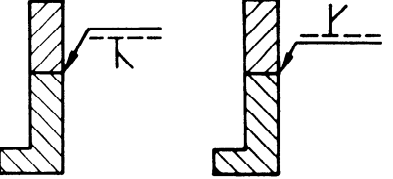
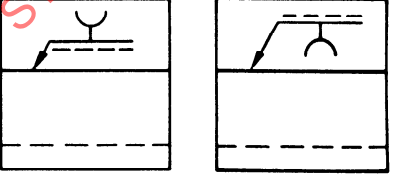
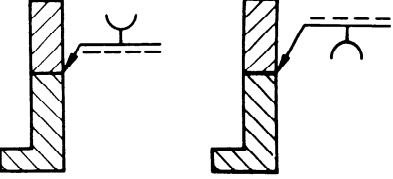
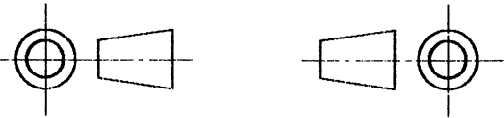
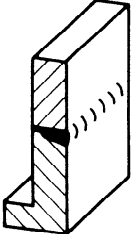
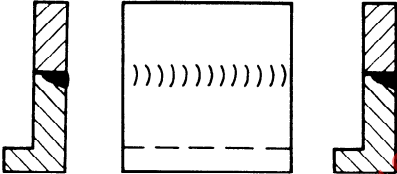
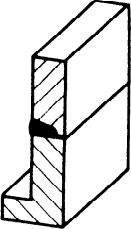
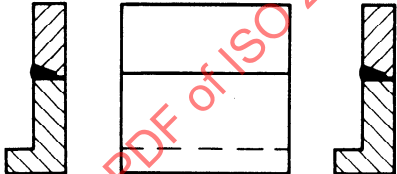
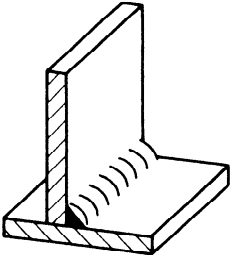
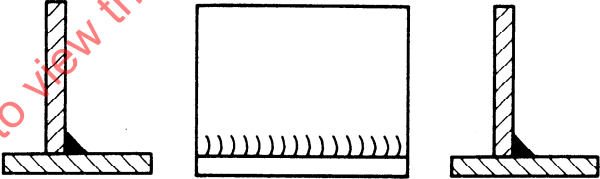
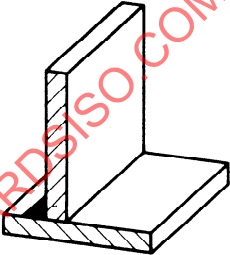
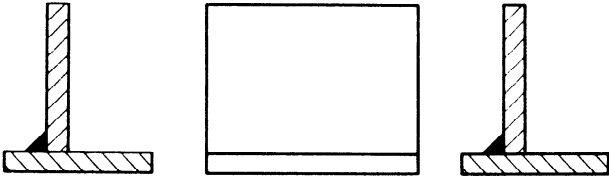
Symbolization	
either	or
	
	
	
	
	

Table A.1 — Examples of the use of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
			
15	Single-J butt weld P 8		
16			
17	Fillet weld △ 10		
18			

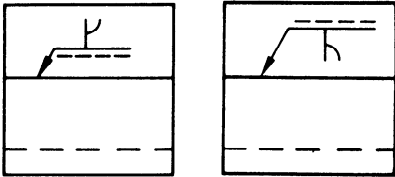
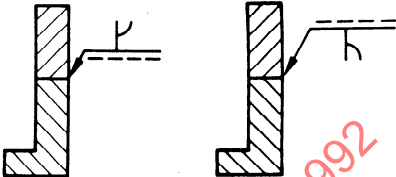
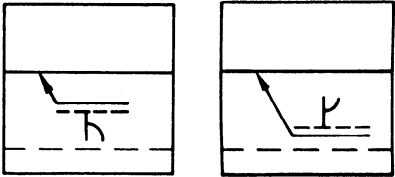
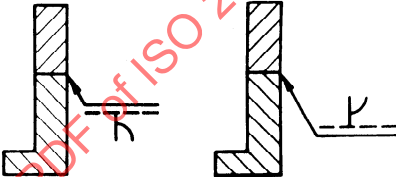
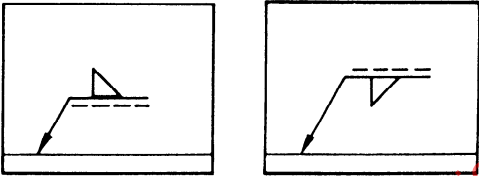
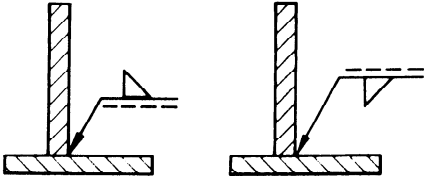
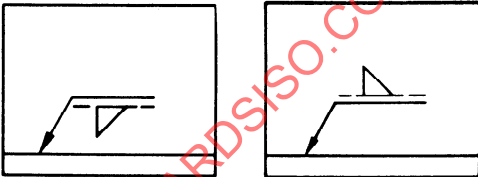
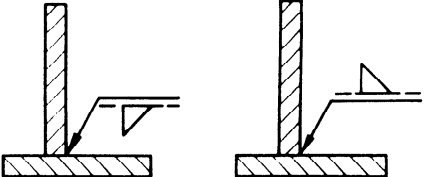
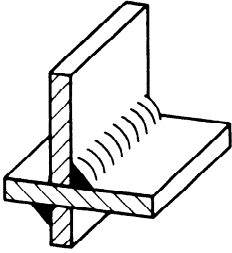
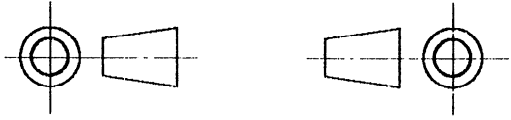
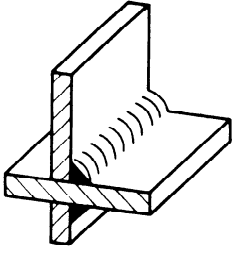
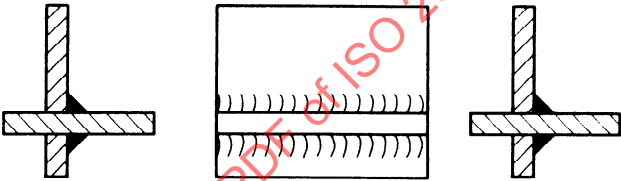
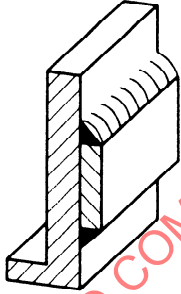
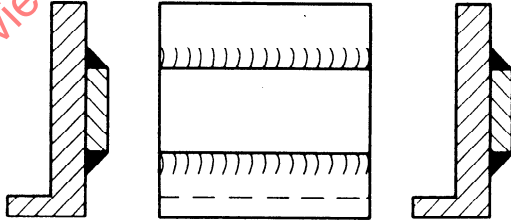
Symbolization	
either	or
	
	
	
	

Table A.1 — Examples of the use of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation	
19	Fillet weld 			
20				
21				

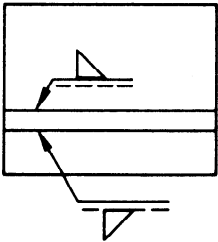
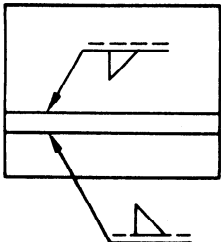
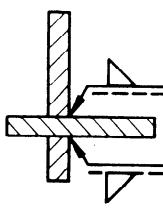
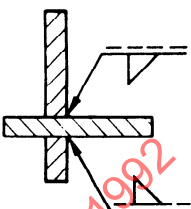
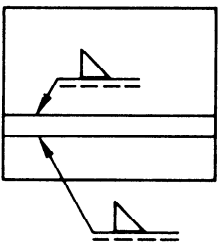
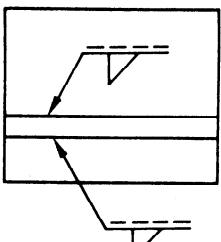
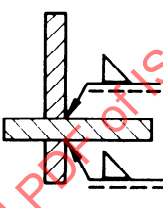
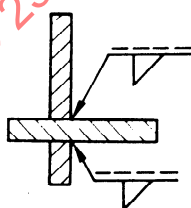
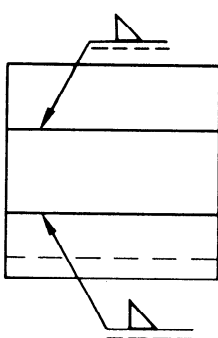
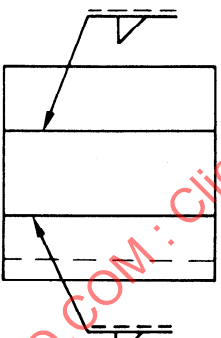
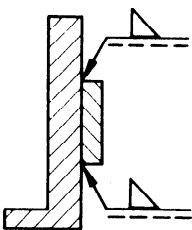
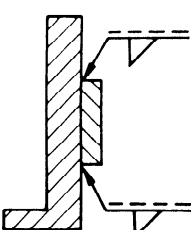
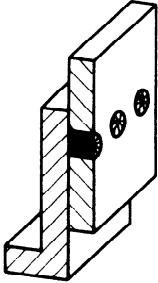
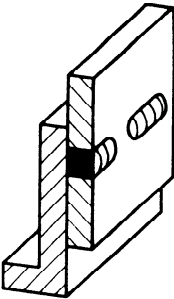
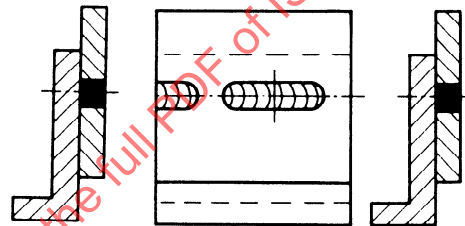
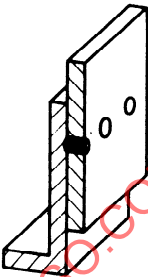
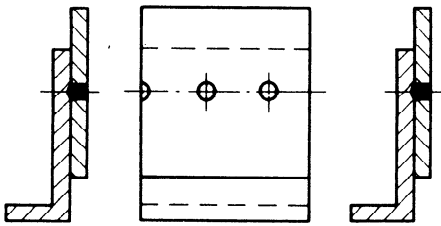
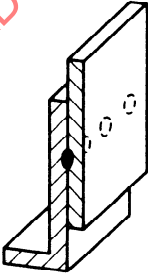
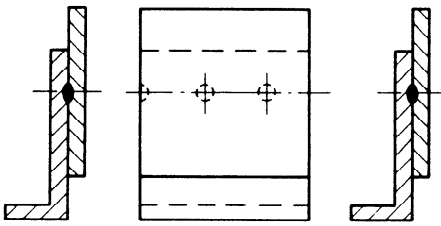
Symbolization	
either	or
 	 
 	 
 	 

Table A.1 — Examples of the use of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
22	Plug weld 11		
23			
24	Spot weld 12		
25			

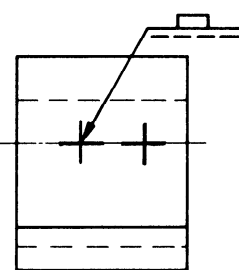
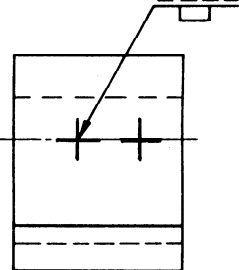
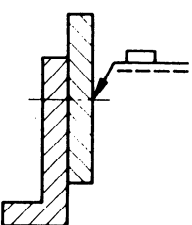
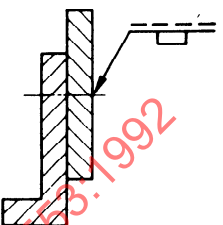
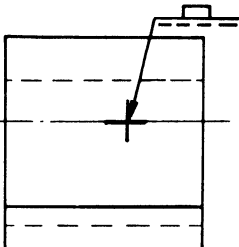
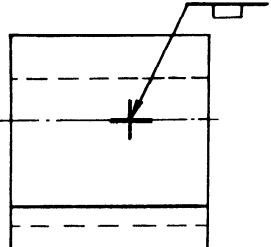
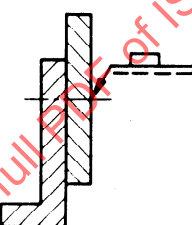
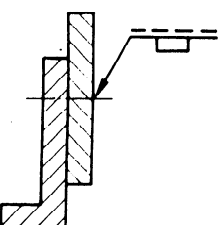
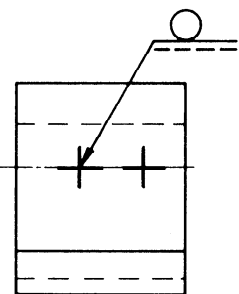
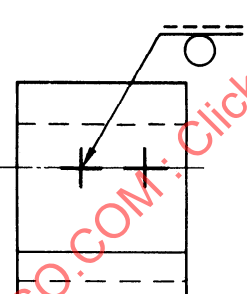
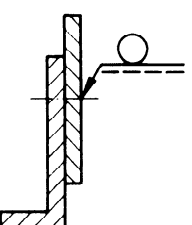
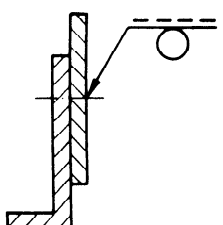
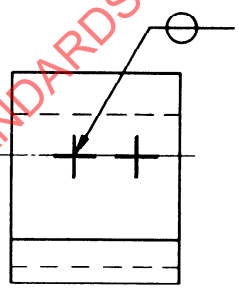
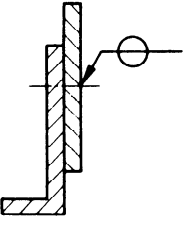
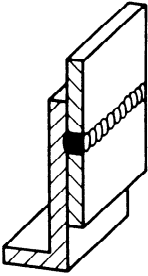
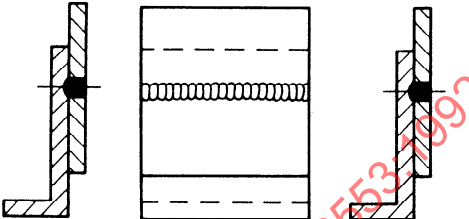
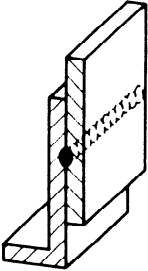
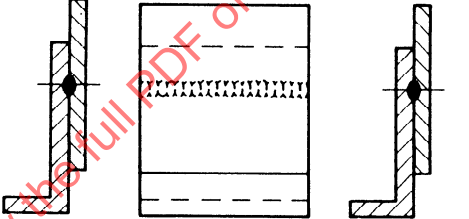
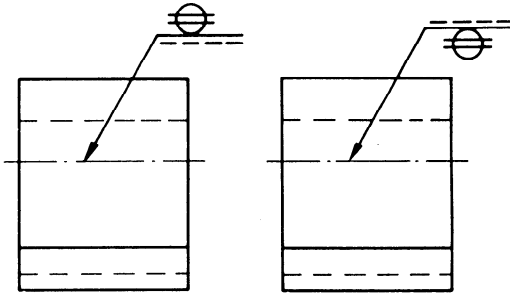
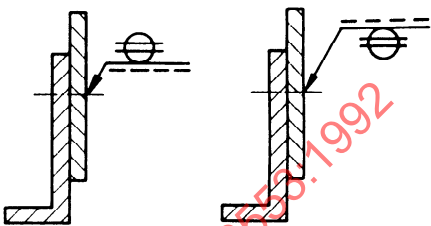
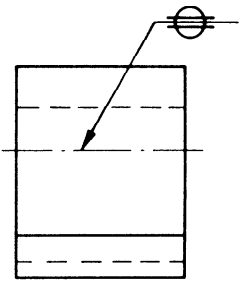
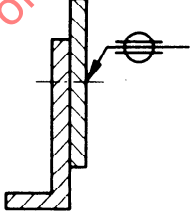
Symbolization	
either	or
 	 
 	 
 	 
	

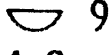
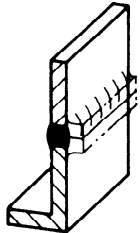
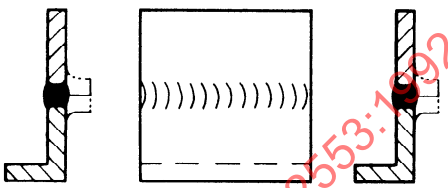
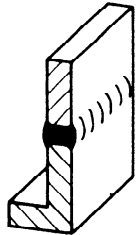
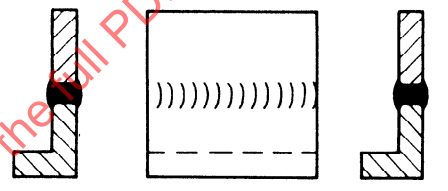
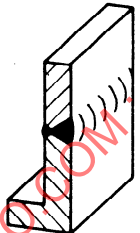
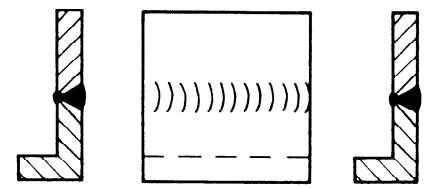
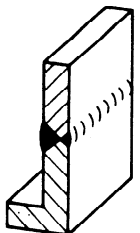
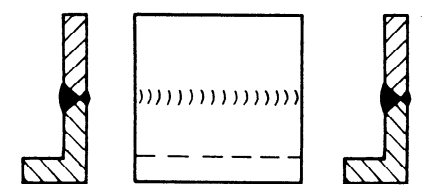
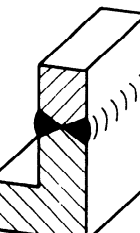
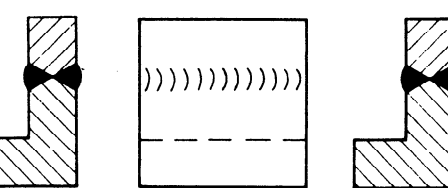
Table A.1 — Examples of the use of elementary symbols (concluded)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
26	Seam weld  13		
27			

Symbolization	
either	or
	
	

STANDARDSISO.COM : Click to view the full PDF of ISO 2553:1992

Table A.2 — Examples of combinations of elementary symbols

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
1	Butt weld between plates with raised edges  1 and backing run  9 1-9		
2	Square butt weld  2 welded from both sides 2-2		
3	Single-V butt weld  3 and backing run		
4	 9 3-9		
5	Double-V butt weld  3 (X weld) 3-3		

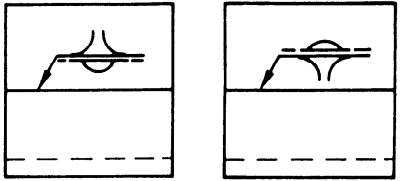
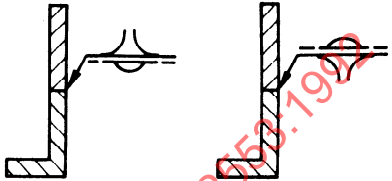
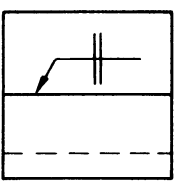
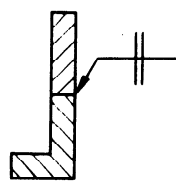
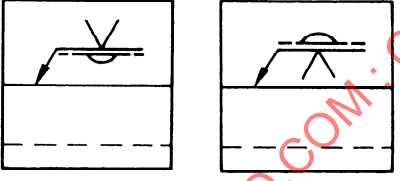
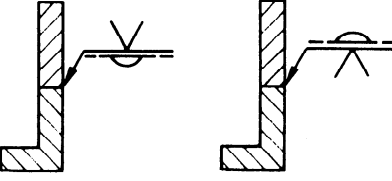
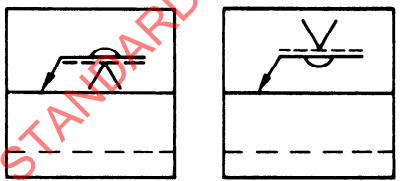
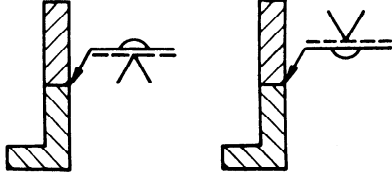
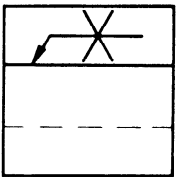
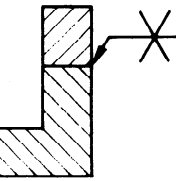
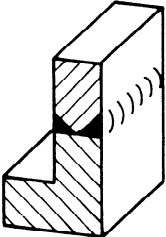
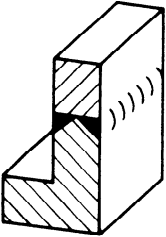
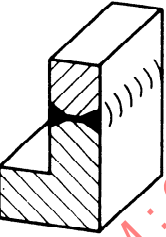
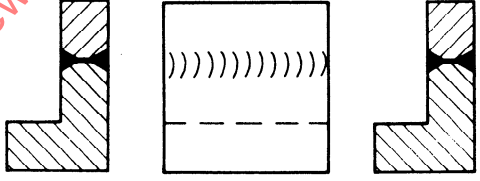
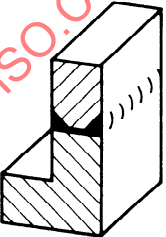
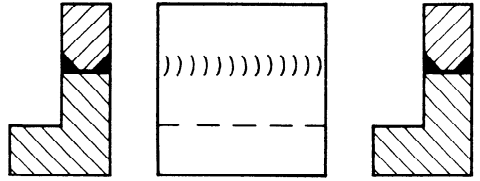
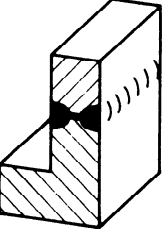
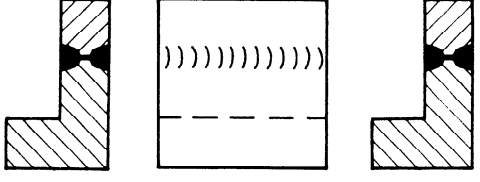
Symbolization	
either	or
	
	
	
	
	

Table A.2 — Examples of combinations of elementary symbols (continued)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
6	Double bevel butt weld  (K weld)		
7	4-4 		
8	Double V butt weld with broad root face  5-5		
9	Double bevel butt weld with broad root face  6-6		
10	Double U butt weld  7-7		

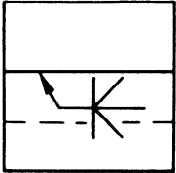
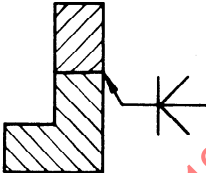
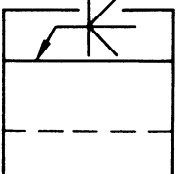
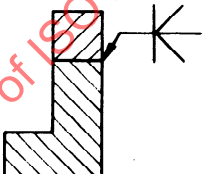
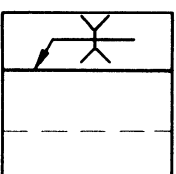
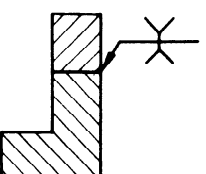
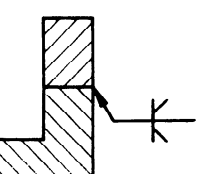
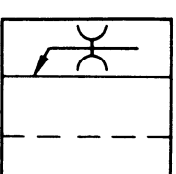
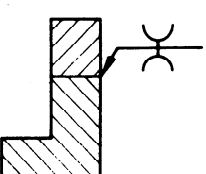
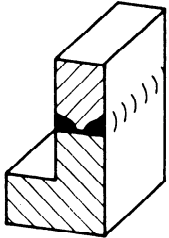
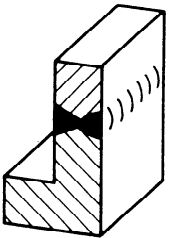
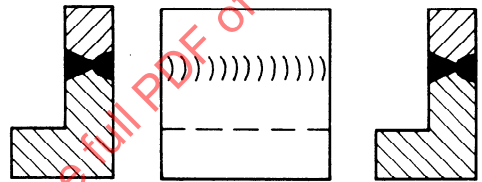
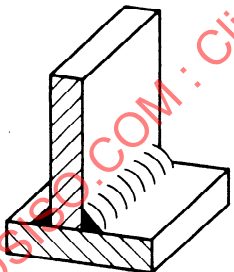
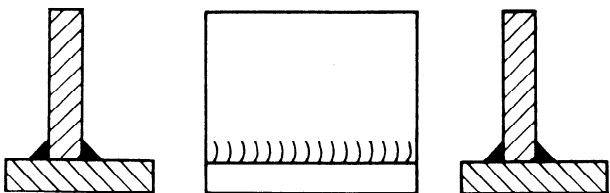
Symbolization	
either	or
	
	
	
	
	

Table A.2 — Examples of combinations of elementary symbols (concluded)

No.	Designation Symbol (Numbers refer to table 1)	Illustration	Representation
11	Double J butt weld P 8 8-8		
12	Single V butt weld V 3 and single U butt weld Y 7 3-7		
13	Fillet weld 10 and fillet weld		
14	10 10-10	