

DE =	EN =	PT =	VN =
Welding symbols			

## Welding processes Information 09 Welding Symbols 93\_94

### Positioning of symbols for welding and soldering in drawings

cf. DIN EN 22553 (1997-03)

#### Basic terms

	<p><b>Reference line.</b> This consists of the solid reference line and the dashed reference line. The dashed reference line runs parallel to the solid reference line and above or below it. The dashed reference line is omitted for symmetrical welds.</p> <p><b>Arrow line.</b> It connects the solid reference line with the joint.</p> <p><b>Tail.</b> Additional entries can be given here as needed for:</p> <ul style="list-style-type: none"> <li>• method, process</li> <li>• evaluation group</li> <li>• working position</li> <li>• additional material</li> </ul> <p><b>Joint.</b> Orientation of the parts to be joined to each other.</p>
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#### Weld information

<p><b>graphical</b></p> <p><b>symbolic</b></p>	<p><b>Symbol.</b> The symbol identifies the form of the weld. It is preferably placed normal to the solid reference line, or if necessary on the dashed reference line.</p> <p><b>Arrangement of the weld symbol</b></p> <table border="1"> <tr> <td>position of the weld symbol</td><td>position of the weld (weld surface)</td></tr> <tr> <td>solid reference line</td><td>"arrow side"</td></tr> <tr> <td>dashed reference line</td><td>"other side"</td></tr> </table> <p>For welds represented in section or view, the position of the symbol must agree with the weld cross section.</p> <p><b>Arrow side.</b> The arrow side is that side of the joint to which the arrow line refers.</p> <p><b>Other side.</b> The other side of the joint that is opposite the arrow side.</p>	position of the weld symbol	position of the weld (weld surface)	solid reference line	"arrow side"	dashed reference line	"other side"
position of the weld symbol	position of the weld (weld surface)						
solid reference line	"arrow side"						
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#### Supplemental and auxiliary symbols

cf. DIN EN 22553 (1997-03)

	Weld all around		Weld surface hollow (concave)
	Field weld (weld is made on the construction site)		Weld surface flat (planar)
	Entry of the welding process in the tail		Weld surface curved (convex)
			Weld surface notch free

#### Representation in drawings (basic symbols)

cf. DIN EN 22553 (1997-03)

Weld type/ symbol	graphical	Representation symbolic	Weld type/ symbol	graphical	Representation symbolic
Butt weld 			V groove weld V		

### Representation in drawings (basic symbols)

cf. DIN EN 22553 (1997-03)

Weld type/ symbol	graphical	Representation symbolic	Weld type/ symbol	graphical	Representation symbolic
Flare-V groove weld 			Bevel groove weld V		
Square groove weld 			Y-butt weld Y		
Frontal flush weld 			HY-weld Y		
Steep-flanked weld V			U-groove weld Y		
Build-up weld 			J-groove weld Y		
Fold weld 			Spot weld O		
Weld all around 			Line weld 		
Fillet weld 			Surface weld =		
Field weld with 3 mm seam thickness 					

gezeichnet:	hpw	Datum:		education project	Schweißsymbole	translate/en_ds/p_ct/vn_ro	origin: MT, S. 93-94
Aenderung:	an	Datum:	08.04.2013	WIAP KFKOK	Welding Symbols	r4a	datei_Wi_8_f_18_d8_r4a_Wel
Aenderung:	control 2	Data:		Safenwil Schweiz	spear 2	<a href="http://www.wiap.ch">www.wiap.ch</a>	idee of / from HPW