

DE =	EN =	PT =	VN =
Welding symbols			

Welding processes Information 10 Welding Symbols 95_96

Composite symbols for symmetrical welds¹⁾ (examples) cf. DIN EN 22553 (1997-03)

Weld type	Symbol	Representation	Weld type	Symbol	Representation
Double-V-weld (X-weld)	X		Double HV-weld	K	
Double-bevel weld	K		Double-U-weld	Y	
Double-Y-weld	Y		¹⁾ The symbols are located symmetrical to the reference line. Example:		

Application examples for auxiliary symbols cf. DIN EN 22553 (1997-03)

Weld type	Symbol	Representation	Weld type	Symbol	Representation
Flat V-weld	▽		Flat reworked V-weld	▽	
Convex double V-weld	∞		Flat V-weld with flat backing run	K	
Y-weld with backing run	Y		Hollow fillet weld, weld transfer unnotched	K	

Dimensioning examples cf. DIN EN 22553 (1997-03)

Weld type	Representation and dimensioning graphical	Representation and dimensioning symbolic	Meaning of the symbolic dimension entry
I-weld (penetrating)			Butt weld, penetrating, weld seam thickness $s = 4$ mm
I-weld (non-penetrating)			Butt weld, non-penetrating, weld seam thickness $s = 3$ mm, running over the entire workpiece
Flare-V groove weld			Flare-V groove weld, not completely melted down, weld seam thickness $s = 2$ mm
V-weld (penetrating weld) with backing run			V-weld (penetrating weld) with backing run, fabricated by manual arc welding (code 111 accord. to DIN EN ISO 4063), required evaluation group C accord. to ISO 5817, flat welding position PA accord. to ISO 6947; electrode E 42 0 RR 12 accord. to DIN EN 499

¹⁾ Supplementary requirements can be entered in a tail at the end of a reference line.

Dimensioning examples (continued)

Weld type	Representation and dimensioning graphical	Representation and dimensioning symbolic	Meaning of the symbolic dimension entry
Fillet weld (continuous)			Fillet weld, weld leg thickness $a = 3$ mm (height of the isosceles triangle)
Fillet weld (continuous)			Fillet weld, weld leg thickness $z = 5$ mm (side length of the isosceles triangle)
Fillet weld (interrupted)			Fillet weld (interrupted), weld leg thickness $a = 5$ mm; 2 single welds each with $l = 20$ mm length; weld spacing $e = 10$ mm, end distance $v = 30$ mm
Double fillet weld (interrupted)			Double fillet weld (interrupted, symmetrical), weld leg thickness $a = 4$ mm; single weld length $l = 30$ mm, weld spacing $e = 10$ mm, without end distance
Double fillet weld (interrupted, staggered)			Double fillet weld (interrupted, staggered), weld leg thickness $z = 5$ mm; single weld length $l = 20$ mm, weld spacing $e = 30$ mm, end distance $v = 25$ mm

Symbolic representation of adhesive, folded and pressed joints (examples) cf. DIN EN ISO 15785 (2002-12)

Type of joint	Weld type/symbol	Meaning/drawing entry	Type of joint	Weld type/symbol	Meaning/drawing entry
Adhesive bonded seams	Surface seam ¹⁾		Folded seam	Folded seam	
	Slant seam ¹⁾			Pressed seam	

¹⁾ The adhesive media is not shown for adhesive seams.

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