

Welding Symbol Chart

Basic Welding Symbols and Their Location Significance								
Location Significance	Fillet	Plug or Slot	Spot or Projection	Stud	Seam	Back or Backing	Surfacing	Edge
Arrow Side								
Other Side				Not Used			Not Used	
Both Sides		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	
No Arrow Side or Other Side Significance	Not Used	Not Used		Not Used		Not Used	Not Used	Not Used

Location Significance	Groove							Scarf for Brazed Joint
	Square	V	Bevel	U	J	Flare-V	Flare-Bevel	
Arrow Side								
Other Side								
Both Sides								
No Arrow Side or Other Side Significance		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used

Supplementary Symbols				Location of Elements of a Welding Symbol			
Weld-All-Around	Field Weld	Melt-Thru	Consumable Insert	Finishing Symbol	Contour Symbol	Groove Weld Size	Groove Angle; Included Angle of Countersink for Plug Welds
Backing/Spacer (Rectangular)	Contour			Depth of Bevel; Size or Strength for Certain Welds	Root Opening; Depth of Filling for Plug and Slot Welds	Length of Weld Segment	Pitch (Center-to-Center Spacing) of Weld Segments
	Flush or Flat	Convex	Concave	Specification, Process, or Other Reference	Field Weld Symbol	Weld-All-Around Symbol	Weld Symbols Shall Be Contained Within the Length of the Reference Line
				T	S(E)	L-P	Arrow Connecting Reference Line to Arrow Side Member of Joint or Arrow Side of Joint
Basic Joints Identification of Arrow Side and Other Side Joint				Letter Designations			
Butt Joint	Corner Joint			Where letter designations are to be included in the tail of the welding symbol, reference is made to Table 1, Letter Designations of Welding and Allied Processes and Their Variations, of AWS A2.4-98.			
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T-Joint	Lap Joint						
Edge Joint							

Typical Welding Symbols		
Double-Fillet Welding Symbol	Chain Intermittent Fillet Welding Symbol	Staggered Intermittent Fillet Welding Symbol
Plug Welding Symbol	Back Welding Symbol	Backing Welding Symbol
Spot Welding Symbol	Stud Welding Symbol	Seam Welding Symbol
Square-Groove Welding Symbol	V-Groove Welding Symbol	Double-Bevel-Groove Welding Symbol
Symbol with Backgouging	Flare-V-Groove Welding Symbol	Flare-Bevel-Groove Welding Symbol
Multiple Reference Lines	Complete Joint Penetration	Edge Welding Symbol
Flash or Upset Welding Symbol	Melt-Thru Symbol	Joint with Backing
Joint with Spacer	Flush Contour Symbol	Convex Contour Symbol