



# American Welding Society Welding Symbol Chart

A2.1:1998  
Second Printing

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 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 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				
Backing Spacer (Rectangular)	Contour						
Backing Spacer	Flush	Convex	Concave				
Basic Joints							
Identification of Arrow Side and Other Side Joint							
Butt Joint		Corner Joint					
T-Joint		Lap Joint					
Edge Joint		Process Abbreviations					
Where process abbreviations are to be included in the tail of the welding symbol, reference is made to Table 1, Designation of Welding and Allied Processes by Letters, of ANSI/AWS A2.4-98.							
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Typical Welding Symbols		
<b>Double-Fillet Welding Symbol</b>  Omission of Length Indicates that Weld Extends Between Abrupt Changes in Direction or as Dimensioned	<b>Chain Intermittent Fillet Welding Symbol</b> 	<b>Staggered Intermittent Fillet Welding Symbol</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> 	<b>Joint with Backing</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> 	<b>Joint with Backing</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> 	<b>Joint with Backing</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> 	<b>Joint with Backing</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> Indicates Complete Joint Penetration Regardless of Type of Weld or Joint Geometry	<b>Joint with Backing</b> 
<b>Flash or Upset Welding Symbol</b> 	<b>Melt-Thru Symbol</b> 	<b>Joint with Backing</b> 
<b>Joint with Spacer</b> 	<b>Flush Contour Symbol</b> 	<b>Convex Contour Symbol</b> 

It should be understood that these charts are intended only as shop aids. The only complete and official presentation of the standard welding symbols is in AWS A2.4, Standard Symbols for Welding, Brazing, and Nondestructive Examinations.