

Standard Welding Symbols

Typical Welding Symbols		
<p>Double-Fillet Welding Symbol</p> <p>Weld size $\frac{1}{8}$ Length 4 Omission indicates that weld extends between abrupt changes in direction or as dimensioned</p>	<p>Chain Intermittant Fillet Welding Symbol</p> <p>Pitch (distance between centers) of increments 2-5 Size (length of leg) $\frac{1}{8}$ Length of increments 3-4</p>	<p>Staggered Intermittant Fillet Welding Symbol</p> <p>Pitch (distance between centers) of increments 3-5 Size (length of leg) $\frac{1}{2}$ Length of increments 3-4</p>
<p>Plug Welding Symbol</p> <p>Include angle of countersink 30° Size (diameter of hole at root) $\frac{3}{4}$ Pitch (distance between centers) of welds 4 Depth of filling in inches (omission indicates filling is complete) 1</p>	<p>Back Welding Symbol</p> <p>Back weld 2nd operation or 1st operation</p>	<p>Pack Welding Symbol</p> <p>Back weld 2nd operation or 1st operation</p>
<p>Spot Welding Symbol</p> <p>Size or strength 0.75 Number of welds 15 Pitch 4 Process RSW Process RSW</p>	<p>Stud Welding Symbol</p> <p>Size $\frac{1}{2}$ Pitch 4 Number of studs 1</p>	<p>Beam Welding Symbol</p> <p>Size or strength 0.30 Increment length 3-1 Pitch 4 Process RSEW</p>
<p>Square-Groove Welding Symbol</p> <p>Weld size $\frac{1}{2}$ Root opening $\frac{1}{4}$</p>	<p>Single-V Groove Welding Symbol</p> <p>Depth of preparation $\frac{1}{2}$ Weld size $\frac{1}{2}$ Root opening $\frac{1}{4}$ Groove angle 60°</p>	<p>Double-Bevel-Groove Welding Symbol</p> <p>Weld size $\frac{1}{2}$ Weld size $\frac{1}{2}$ Arrow points toward member to be prepared</p>
<p>Symbol with Backgouging</p> <p>Depth of preparation $\frac{3}{8}$ Back gouge</p>	<p>Flare-V Groove Welding Symbol</p> <p>Weld size $\frac{1}{2}$</p>	<p>Flare-Bevel-Groove Welding Symbol</p> <p>Weld size $\frac{1}{2}$</p>
<p>Multiple Reference Lines</p> <p>1st operation on line nearest arrow 2nd operation 3rd operation</p>	<p>Complete Penetration</p> <p>Indicates complete penetration regardless of type of weld or joint preparation CJP</p>	<p>Edge Flange Welding Symbol</p> <p>Radius 200 = $\frac{1}{16}$ Weld size $\frac{1}{8}$ Height above point of tangency</p>
<p>Flash or Upset Welding Symbol</p> <p>Process reference FW</p>	<p>Melt-Thru Symbol</p> <p>$\frac{1}{2}$</p>	<p>Joint with Backing</p> <p>R</p>
<p>Joint with Spacer</p> <p>Double bevel groove</p>	<p>Flush Contour Symbol</p> <p>G</p>	<p>Convex Contour Symbol</p> <p>G</p>
<p>With modified groove weld symbol</p> <p>Double bevel groove</p>		