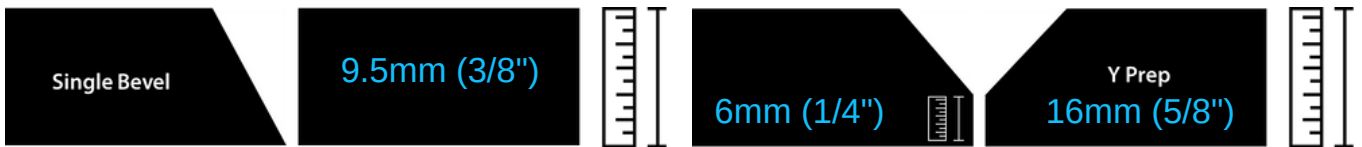


Carbon Steels

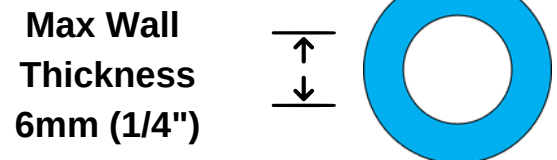
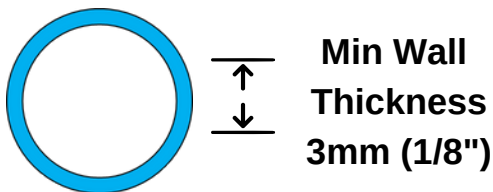
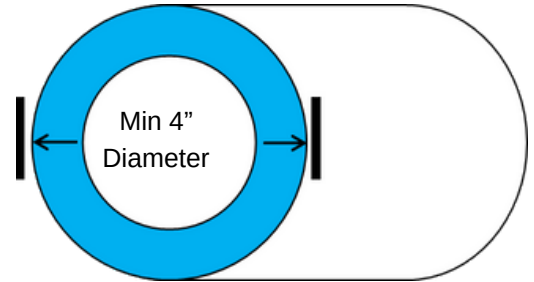
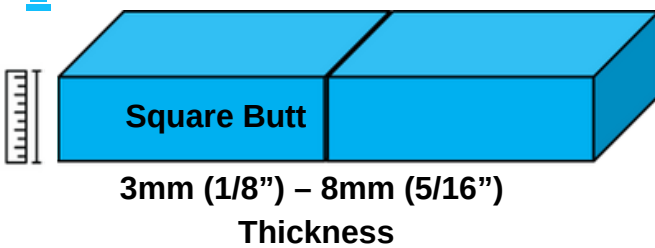
The K-TIG Welding System uses conventional weld forces with a higher current (amps) to create a stable keyhole TIG weld.



Thickness Ranges Maximum 25mm (1")



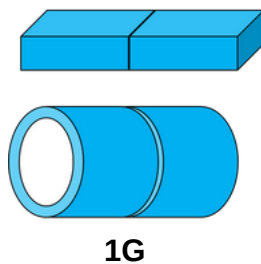
Capabilities



Sulphur Tolerances

Square Butt - 3mm - 0.005% / 6mm - 0.1% / 8mm - 0.003%

Single Bevel - 6.5mm - 7.1mm - 0.009% / 9.3mm - 0.007%



Weld Position



Torch Gas Mix

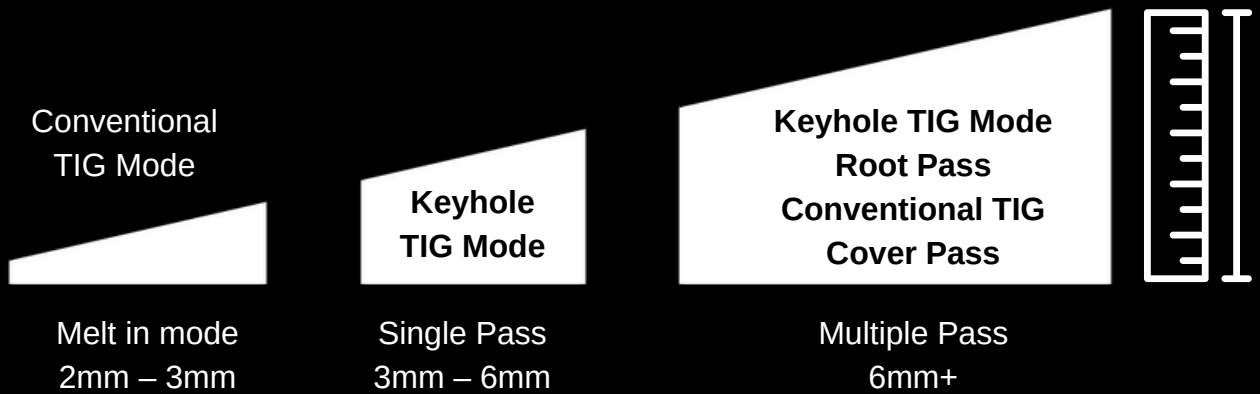
Gas is material dependant

Material Information Guide

Carbon Steels

Carbon steel is a type of steel that contains primarily carbon as the main alloying element, with small amounts of other elements like manganese, silicon, and copper. The amount of carbon present in carbon steel determines its hardness and strength.

Welding Modes



Guide to Average Travel Speeds

200mm (8") per minute	300mm (12") per minute
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Depending on material thickness and joint preparation

Average Heat Inputs

Full Penetration Keyhole Pass

0.8 Kj/mm (20400 Kj/inch)	2.2Kj/mm (56600 Kj/Inch)
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Cover passes/fill passes approx. 1 Kj/mm (26700 Kj/inch)



The values and ranges expressed within this document are intended as guide ranges only and should not be considered absolute values, as materials, equipment, applications and specific environment may impact individual performance