

WELDING INSTRUCTIONS AND INFORMATION

The welding of the block to a structure or item should only be performed by a fully trained and authorised welder according to EN287 or AWS Standards.

Welding procedures:

1. Root welding must begin in the centre of the weld block.
2. The root must be cleaned thoroughly before beginning the top weld run.
3. The welding once commenced should not be interrupted as this may cause the weld block to lose temperature.
4. The butt joint (HV) must always be reinforced using a fillet weld.
5. **IMPORTANT NOTE:** Do not weld or arc at the load lug, as this could damage or compromise the heat treated ring and powder coated enamel.

Product Code	WLL tonnes	Weld Size	Weld Length	Weld Volume
BTAV015	1.5	HV 5+a3	2 x 33mm	ca. 1,2cm ³
BTAV025	2.5	HV 7+a3	2 x 40mm	ca. 2,6cm ³
BTAV040	4	HV 8+a3	2 x 40mm	ca. 3,2cm ³
BTAV067	6.7	HV12+a4	2 x 60mm	ca. 8.7cm ³
BTAV100	10	HV16+a4	2 x 60mm	ca.15,5cm ³
BTAV160	16	HV25+a6	2 x 90mm	ca. 56cm ³

Welding procedure & Welding filler metals:

WELD TYPE	Australia	Europe (BRD, GB, F)	USA Canada
	Mild steel, Low alloyed steel		
MAG / MIG Welding Gas Shielded Wire Welding	WIA-Hobart XLS25 Fluxofil 14 or equivalent	EN 440 G4Si1 z.B. Castolin 45250	AWS: A 5.18 ER 70 S-6 z.B. Eutectic MIG-Tec Tic A88
Manual Electric Welding E-Hand DC Stick Electrode	WIA-Austarc 16TC Weldwell PH77 or equivalent	EN 499 E 426 B32 H5 z.B. Castolin 6666* 6666N*	AWS: A 5.5 E 8018-G E7016 z.B. Eutectic 666/35066CP*
Manual Electric Welding E-Hand AC Stick Electrode	WIA-Austarc 16TC Weldwell PH77 or equivalent	EN 499 E 380 RR12 z.B. Castolin 35086 CP 6600	AWS: A 5.1 E 6013 z.B. Eutectic Beauty Weld II
TIG Tungsten Arc Welding	AWS: A 5.18 ER70 S-6	DIN 8559/EN 1668: WSG2 / W3Si1 z.B. Castolin 45255 W	AWS: A 5.18 ER70 S-6 z.B. Eutectic TIG-Tec-Tic: A 88

*Stick dry weld

The specific processing informations of the welding fillers must always be checked before welding.

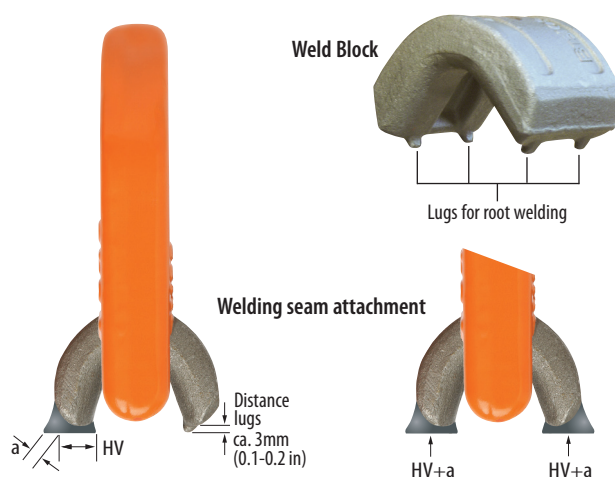


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Important points to remember

- The type of material that the lug and weld block is to be attached to should be of a suitable strength to withstand the lifting and the load placed upon it.
- All weld points should be cleaned first and be free of rust, grease, paint or metal scale before commencing to weld.
- If the structure or item requires pre-heating this must be done in accordance with Australian Standard AS1554.
- The distance lugs are to provide the correct root weld height (3mm) these lugs should not be removed under any circumstance.
- If there is a possibility of corrosion on the structure or if the item is exposed to outdoor environments for a length of time the weld must always be a continuous fillet weld. To ensure this, the HV weld at the BTAV has a complete connection with the entire cross section of the material.
- If the rings are to be used for lashing purposes only the WLL can be doubled. eg. Lashing Capacity (LC) is twice the Working Load Limit (WLL) for lifting.
- Annealing of the unit can be performed several times up to <600°C (1100°F) without significantly reducing safety.
- Prior to use all relevant standards and statutory regulations should be consulted and strictly adhered to at all times.
- All inspections must only be performed by those qualified to do so.
- Consideration must be given before attaching lifting points. These points should be in such a position that they can be easily accessed for inspection and to attach or disconnect slings.
- Lifting points must be inspected before each use for any cracks to the weld, corrosion, deformation or excessive wear.



CAUTION

Care should always be taken to calculate the correct Working Load Limit (WLL) when using weld-on lugs with multi-leg sling assemblies. With a deration by forces in multiple directions to reduction in the (WLL) for these type of assemblies should be confirmed with the relevant Australian Standard AS3775-2004 - Chain slings - Gr t(8).