




Jointmaster Clamp

63-180mm

Product Codes: 01-09-003, 01-09-004, 01-09-006

Operating Instructions

REVISION: 01



Helping you make the right connections.

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01. Introduction

General Description

The Jointmaster clamping solution is designed to clamp and hold pipe to provide stability and prevent movement primarily for electrofusion purposes with any polyethylene pipe material (new, weathered or previously installed) in accordance with Gas Industry Standards GIS/PL2-5 Part 5 Electrofusion Ancillary Tools.

This product (Jointmaster Clamps) has been manufactured, inspected and tested in accordance with the ISO9001 quality control systems and procedures in place at Caldervale Technology Ltd, Dewsbury.

Before using

It is important to ensure all component parts are present and in serviceable condition.



Important!

This tool should be used in accordance with the pipe manufacturers' recommendations and in line with local codes of practice.

This manual outlines the operation of the pipe clamping tool for PE pipe and forms a part of the product to which it relates. It should be kept for the life of the product. Any amendments issued by Caldervale Technology Ltd should be incorporated in the text. The manual should be passed to any subsequent holder or user of this product.

02. Safety Instructions

1. Read and understand the whole booklet before using the tool.
2. It is imperative that all possible precautions are made to avoid unexpected movement of the tool and pipe during use.
3. Never attempt to operate on pipes that are not within the specified dimensions.
4. Operatives should wear eye protection, gloves, safety headwear & footwear when using the equipment.
5. The tool can be disassembled for ease of transportation.

03. Bases

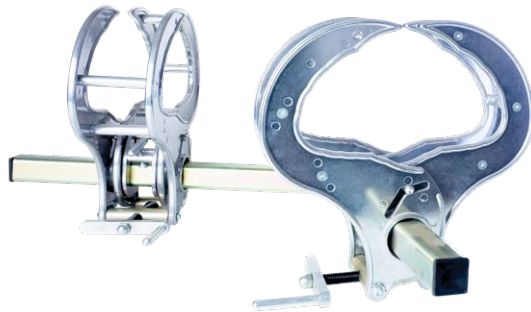
There are different bases available for the Jointmaster clamping solution, allowing for more flexibility and correct clamping of many pipes and fittings.

A standard straight base will allow two or more clamps to hold the pipe in line with each other.

An angle maker base will allow for bends in the pipe and couplers such as 90-degree couplers to be held correctly.

The 3 way adapter will attach to either the straight or angle maker base and allow for a perpendicular base where more clamps can be used for example when welding a T-piece.

For more information or please contact us at www.caldertech.com



Jointmaster Angle Maker

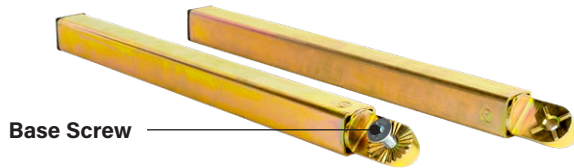


3 Way Adapter

04. Operation

Prior to setting up the clamps the appropriate box section base should be selected.

Instructions for Angle Maker Base

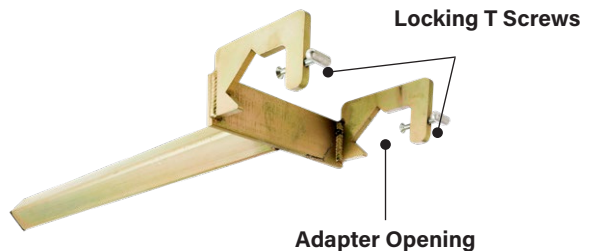


If an angled fitting is required an angle maker base should be used, and for a tee joint a three-way base adapter is available.

The angle maker base should be set up by:

1. First unscrewing the base screw with the provided Allen key.
2. Mate the notches on the ends of the bases at the appropriate angle and replace the Base screw and tighten it until the base pieces do not move separately.

Instructions for 3 Way Adapter



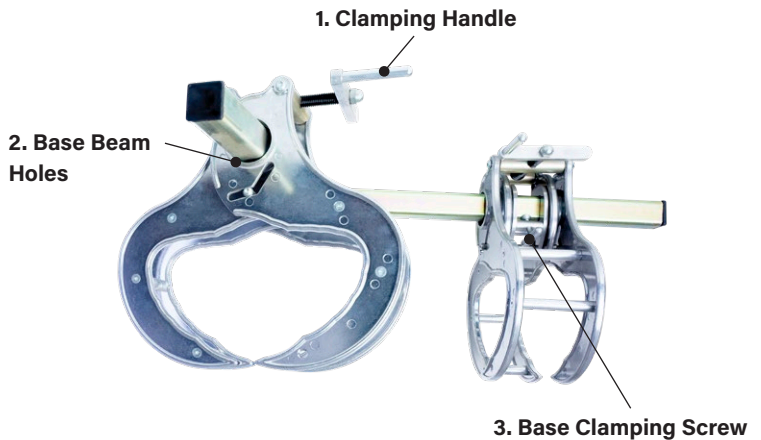
The 3 way adapter is an attachment that can be used in conjunction with any other base and is designed to attach to another base to give an extra base perpendicular to the base which it is attached.

This is attached to any other base as follows:

1. Ensure the 3 way adapters locking T screws are turned anticlockwise fully.
2. The opening of the adapter should then be placed over the base to which it will be attached.
3. The locking T screws should be tightened by turning clockwise until they are both tight on the other base.

The 3 way adapter is now ready to accept clamps.

Instructions for Clamps



1. Ensure that the base clamping screw (3) is retracted in each clamp being used.
2. Align the base beam holes (2) and slide the clamp onto the base beam and position it near the fitting.
3. Tighten the base clamping screw (3) to stop the clamp moving during operation.
4. Turning the clamping handle (1) anticlockwise open the jaws of the clamp and place clamp over the pipe to be restrained.

5. Turn the clamping handle (1) clockwise to tighten the clamp onto the pipe. Do not over tighten as this may cause the pipe to be out of shape.

Removal

1. On completion of the jointing and cooling cycle, the clamp may be removed by turning the clamping handles, opening the clamp jaws and lifting free.
2. Turn base clamping screws anti-clockwise to release clamp from the base.



Storage

IMPORTANT! When not in use always:

1. Store the tool in the carry case provided.
2. Ensure the tool is clean and dry before storage.

Routine Maintenance

1. Check for correct movement and operation and lubricate moving parts at regular intervals before using.
2. It is important to ensure all component parts are present and in serviceable condition and that there is no damage to any component. Parts that are damaged or bent could cause problems clamping the pipe.
3. If in doubt contact www.caldertech.com for spares and service.

05. Specifications

Materials:	Die Cast Aluminium / Stainless Steel / Mild Steel
Finish:	Natural / Zinc passivate to mild steel parts
Min Pipe Diameter:	63mm
Max Pipe Diameter:	180mm
SDR:	All SDR Ratings

Product Code	Description	Dimensions	Weight
01-09-003	Jointmaster straight connection	710 x 340 x 390mm	9.2kg
01-09-004	Jointmaster angle maker	740 x 370 x 390mm	12.4kg
01-09-006	Jointmaster 3 way	940 x 370 x 390mm	20kg

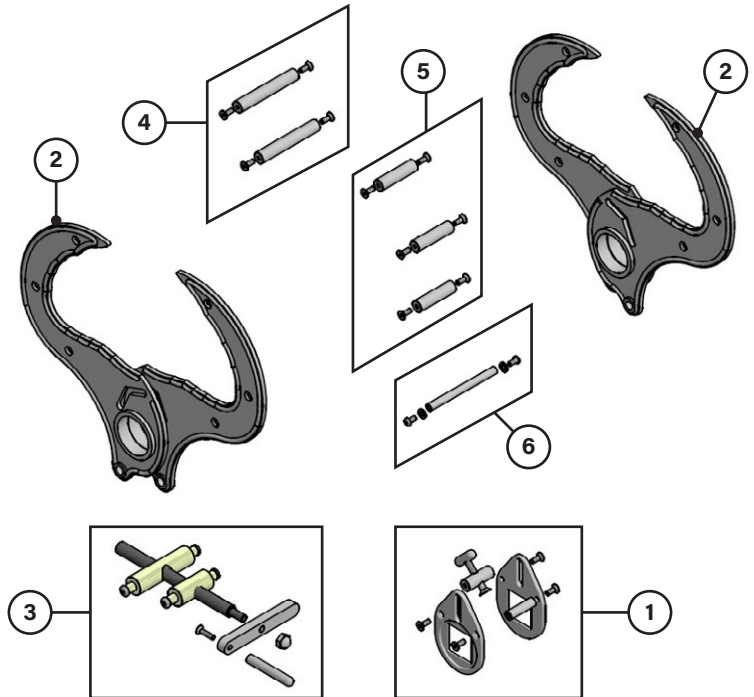
All measurements above are approximate and do not account for any packaging, bags or boxes.

This unit is designed and manufactured to meet the requirements of National Grid Gas Industry Standards GIS/PL2-5 Part 5 Electrofusion and Ancillary Tooling.

Caldervale Technology Ltd has a policy of continuous improvement in product quality and design. Caldervale Technology Ltd therefore reserves the right to change the specification of its models at any time, without prior notice.

It is the responsibility of the operator to ensure that the PE pipe is suitable for this clamping system if in doubt contact the PE pipe manufacturer for confirmation.

06. Parts Diagram



Part	Product Code	Description
1	TBC	Spare base clamping egg
2	TBC	Spare clamp arms (2 pcs per unit)
3	TBC	Spare clamping handle
4	TBC	Spare outer spacer bars
5	TBC	Spare inner spacer bars
6	TBC	Spare guide rod

07. Warranty Information

1. Extent of Warranty

- a) Subject to clauses 2 and 3, Caldervale Technology Ltd warrants to the end-user customer that its products will be free from defects in materials and workmanship, for six months after the date of purchase by the end-user customer, subject to providing proof of purchase.
- b) If Caldervale Technology Ltd receives, during the warranty period, notice of a defect in product which is covered by this warranty; Caldervale Technology Ltd shall either repair or replace the product, at its option. Any replacement product may be either new or like-new, provided that it has functionality at least equal to that of the product being replaced.
- c) All warranty work will be carried out by Caldervale Technology Ltd unless otherwise agreed. On-site warranty and repair or replacement services are available from authorised Caldervale Technology Ltd service facilities world-wide.
- d) Customers shall prepay shipping charges for products returned to Caldervale Technology Ltd for warranty service, and Caldervale Technology Ltd will charge for return of the products back to the customer.
- e) This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from country to country in the world.

2. Pre-conditions for Warranty Application

Caldervale Technology Ltd's warranty covers only those defects which arise as a result of normal use of the product, and this warranty shall only apply in the following circumstances:

- a) All the instructions contained in the operating manual have been complied with; and
- b) None of the following apply:
 - i) Improper or inadequate maintenance;
 - ii) Physical abuse;
 - iii) Unauthorised modification, misuse or any use not in accordance with the operating manual and good industry practice;

- iv) Operation outside the products specifications;
- v) Improper site preparation or maintenance;
- vi) Faulty pipes.

3. Limitations of Warranty

- a) Caldervale Technology Ltd does not warrant the operation of any product to be uninterrupted or error free.
- b) Caldervale Technology Ltd makes no other warranty of any kind, whether express or implied, with respect to its products. Caldervale Technology Ltd specifically disclaims the implied warranties of satisfactory quality and fitness for a particular purpose.
- c) To the extent that this warranty statement is inconsistent with the law of the locality where the customer uses the product, this warranty statement shall be deemed modified by the minimum necessary to be consistent with such local law.
- d) To the extent allowed by local law, the remedies provided in this warranty statement are the customer's sole and exclusive remedies.
- e) This tool has been designed for the range of pipes available at the time of its design and development. Caldervale Technology Ltd can accept NO liability for the unit's ability or otherwise to work with new or different pipes that subsequently appear in the market place.

Please complete this information and keep it safely with your proof of purchase receipt. You will require it for any warranty claim.

Where purchased: _____

Date of purchase: _____

Name of purchaser: _____

Address of purchaser: _____

Type of tool: _____

Serial number: _____

08. Service and Repair

This product has no specific calibration period, however periodic safety inspections should be carried out by the operator as specified in this manual, if in any doubt please contact the manufacturer for further information.

INTERNATIONAL

Caldervale Technology Ltd

Bretfield Court, Dewsbury,
West Yorkshire WF12 9BG, UK

T. +44 (0)1924 469571

E. sales@caldertech.com

W. caldertech.com

AUSTRALIA / NZ

Caldertech Australia Pty Ltd

Unit 3/30 Juna Drive,
Malaga WA 6090, Australia

T. +61 (0)8 9209 1132

E. sales@caldertech.com.au

W. caldertech.com.au

09. Decommissioning and Disposal

These give the instructions for decommissioning and disposal of the equipment and confirm how it is to be taken out of service safely, in respect of the Essential Environmental, Health and Safety Requirements.

- If a Caldertech Jointmaster Clamp has reached the end of its useful working life and cannot be refurbished it must be sent to a licensed recycling facility for treatment. That will ensure the waste hierarchy requirements are met.
- End of life treatment is the responsibility of the Customer. This can also be achieved by returning the product back to the manufacturer if required.



Certificate of Conformity

This document certifies that the product detailed below fully conforms to the following standard without derogation.

GIS/PL2-5:2018 Electrofusion Ancillary Tools

Product: Jointmaster Clamps

MARCH 2019



I. Smith
Managing Director



Caldervale Technology Ltd
Bretfield Court, Dewsbury, West Yorkshire WF12 9BG, UK
CRN 2769288 | ISO 9001:2015 Certified FM 30989

INTERNATIONAL

Caldervale Technology Ltd

Bretfield Court, Dewsbury,
West Yorkshire WF12 9BG, UK

T. +44 (0)1924 469571

E. sales@caldertech.com

W. caldertech.com

AUSTRALIA / NZ

Caldertech Australia Pty Ltd

Unit 3/30 Juna Drive,
Malaga WA 6090, Australia

T. +61 (0)8 9209 1132

E. sales@caldertech.com.au

W. caldertech.com.au



Caldertech
.com