FUSAMATIC™ MULTISEAL TAPPING TEE

STACKLOAD OR UNDERCLAMP
FOR GAS AND WATER

FUSAMATIC™ MULTISEAL TAPPING TEE
FOR GAS AND WATER

Fusion Group Limited pioneered polyethylene pipe jointing in the UK and across the globe.

Fusion designs and manufactures electrofusion fittings, creates polyethylene fabrications, and distributes electrofusion boxes and automatic butt fusion machines and tooling. Fusion also offers an extensive range of spigot fittings. Our products are used in a wide range of applications worldwide, from gas and water infrastructure, to mining, energy and agricultural projects. Our people are valued for their knowledge and experience of polyethylene and their passion to deliver innovation.

Fusion became a member of the AVK Group of Companies in 2017. This partnership has resulted in a broader product and service offer and has strengthened our manufacturing base.

Multiseal tapping tees deliver security, safety, simplicity and speed at the point of installation.

Sizes
Sizes range from d40 – 355mm with 20, 25, 32, 40, 50 and 63mm outlets.

Pressure ratings
All Multiseal tapping tees are manufactured in PE100 black polyethylene and pressure rated up to 16 bar for water applications and 10 bar for gas applications (for UK gas applications (GIS PL2 Part 4) the maximum operating pressure can be up to 5.5 bar (Class B) or 7 bar (Class C)).

Specifications
All Multiseal tapping tees are tested and have 3rd party approval against the following standards;

- EN 12201-3
- EN 1555-3
- GIS/PL2-4 (Certain sizes only - contact us for further details).

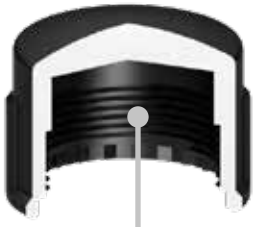
All Multiseal tapping tees are manufactured in the UK.

FEATURES AND BENEFITS

- Multiseal saddle and fusion mat have been designed to minimise joint cycle times.
- Thread profile on the Multiseal's internal cutting mechanism reduces the level of torque required to drive the cutter through the body of the main.
- Corrosion resistant brass terminal pins.
- Cutter blades manufactured from corrosion resistant stainless steel.
- To promote joint quality, all fusion elements are coated with enamel before being moulded into the fitting body.

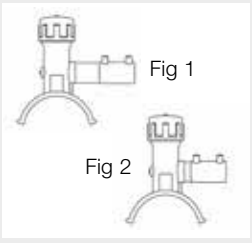
Optional Cutter Tube - Quality live connections

Optional cutter tube delivers quality live connections. The cutter tube locks into the integral cutter which allows for leak free cut through of the mains pipe. Important for live or medium pressure applications. The tube must be specified at the time of order, simply add 'T' to the fitting code e.g. MTBKHA63X32**T**.



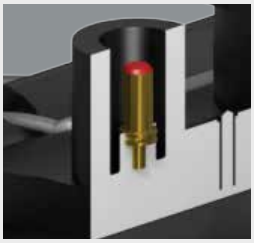
Security – LockCap
Multiseal has a tamper-proof Lockcap which ensures correct installation – it cannot be over-tightened – and won't vibrate loose.

Safety – O-ring Seals
Multiseal tapping tees incorporate two O-ring seals; an internal O-ring in the body of the fitting which seals on the cutter, and an external O-ring which seals against the tightened LockCap. Together these seals protect against leakage, and in conjunction with the optional cutter tube, deliver quality live connections.



Second Chance – Double Spigot Outlet
The outlet spigot on Multiseal tapping tees gives the installer a 'second chance' – if problems occur with the initial service connection (Fig 1) there is sufficient spigot length to cut off the coupler and fuse a second fitting (Fig 2).

Barcode / QR Code
Quality control is central to the success of Fusion's fittings. The unique barcode configuration, including QR code, provides full traceability of raw material for each individual fitting as well as providing welding information when used in conjunction with electrofusion boxes equipped with a barcode scanner.



Fusamatic Pin
Invented by Fusion, the Fusamatic pin provides a totally automatic method for ensuring the correct welding parameters are used. Within each Fusamatic pin is a resistor. When the electrofusion box is connected to the fitting, the Fusamatic pin enables it to automatically identify the correct fusion time required to make the joint. All the operator has to do is press go!

Simplicity – Stackload or Underclamp
Installers can buy Multiseal as a standard stackloading tee, or opt for the sacrificial toggle-clamp underpart. The toggle-clamp design snaps quickly in place, saves the installer time, avoids the need for specialist tooling, and provides proof of clamping during the fusion cycle.

THE GOOD GUIDE TO
ELECTROFUSION JOINTING

ELECTROFUSION DO'S

- Use a shelter and ground sheet in wet or dry conditions.
- Always use equipment that has been regularly maintained and calibrated.
- Ensure control box voltage compatible with fitting.
- Always use alignment/restraining clamps.
- Cut pipe ends square for electrofusion sockets.
- Scrape pipe and/or spigot surfaces fully.
- Keep scraped pipe and/or spigot surfaces and fittings clean.
- Ensure correct fusion and cooling times are adhered to.
- Assemble joint and fuse immediately after scraping pipe.
- Carry out quality checks before cutting through pipe.
- Mark the fused fitting with the joint number for traceability.

ELECTROFUSION DONT'S

- Do not start the joining process unless it can be completed in one go.
- Leave fittings out of protective bags.
- Use dirty fittings.
- Touch prepared pipe surfaces or fusion areas.
- Allow assemblies to get damp prior to joining.
- Touch fusion indicators during the welding cycle.
- Remove joint from clamps until the full cooling time has elapsed.
- Remove integral cutter from the saddle once the main has been drilled.
- Do not use control box in a trench with gaseous atmosphere.
- On no account should a fitting be fused for a second time.
- Failed joints should not be used. Cut out failed joint and fuse another fitting to the required specification on distance from failed fitting.
- Electrofusion joints should not be carried out on slotted or drilled pipe sections, only solid walled pipe sections.

SAFETY NOTES

Although we make every effort in the design of our products to ensure operator safety, please remember the following precautions:

- Never allow molten or semi-molten polyethylene to come into contact with the skin. However, if this does happen, flush the affected area with cold water and seek expert medical advice.

DO NOT UNDER ANY CIRCUMSTANCE ATTEMPT TO PULL THE MATERIAL FROM THE SKIN AS THIS COULD REMOVE THE SKIN AS WELL.

- Do not attempt to lift long lengths of pipe without assistance or mechanical aid.
- Normal precautions should be observed when handling electrical equipment although, for safety reasons, all 110v portable generator sets should be "Centre Tapped" for site use +55/0/-55 volts.
- To afford protection during jointing, it is advisable to wear protective workwear such as gloves, safety glasses and safety boots.
- Ensure that equipment is serviced on a regular basis as recommended by the equipment manufacturer.

ADDITIONAL INFORMATION

STANDARD DIMENSION RATIO (SDR)

The SDR is calculated by dividing the minimum (nominal) outside diameter (OD) by the minimum wall thickness (WT) i.e.

SDR =	OD	125	
	WT	11.4	= 11

From 25mm PE pipe and above the ratio between the outside diameter and the wall thickness remains constant for specific pressure ratings of the pipe.

TRANSITION FROM PE PIPE TO OTHER PIPE AND FITTINGS

Various transition fittings are available to connect to metallic valves, hydrants and pipework. One common method is the use of PE flanges.

It is important to follow manufacturers' recommendations for tightening the necessary bolts. Bolt torque details are supplied with the flanges. It is also important to support any equipment independently of all PE pipework (ie. valves to be mounted on concrete blocks).

This guide will provide basic information to enable the operative to:

- Understand the principles of electrofusion jointing.
- Carry out pre-jointing equipment checks.
- Identify pipe and compatible fittings.
- Inspect for, and identify acceptable quality joints.
- Make satisfactory electrofusion joints from compatible pipes and fittings.
- Site the equipment.

Safety Notice

To ensure operator safety and comply with Health and Safety regulations all electrofusion control boxes must be operated from an effectively earthed supply in accordance with the manufacturers' operating instructions.

Equipment required:

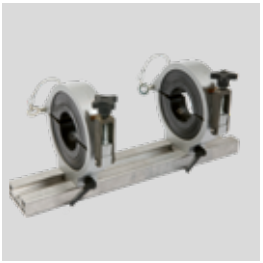
Generator of suitable size to power control box - refer to manufacturers' literature for power requirements

Welding tent/shelter and ground sheet

Indelible marker pen

Electrofusion control box with appropriate leads

Re-rounding clamp if pipe has become oval or has a flat spot



Restraining and alignment equipment

Scraping equipment

Pipe cutter

Multiseal test cap

Principles

Electrofusion is a method of joining PE pipes using fittings with integral heating elements. Sockets are used to join mains and service pipes and saddle fittings are used to connect services to mains.

The term "socket" covers couplers, elbows, reducers etc. The term "saddle" covers branch saddles and tapping tees.

The pipe to be joined must be prepared by removing the outer surface layer to a depth of around 0.2mm, then pipe and fitting are clamped together to prevent movement. A voltage is applied across the fitting terminals via a control box.

An electric current is passed through the wire which heats the wire and melts the polymer, fusing the fitting to the pipe. After welding, the joint is allowed to cool before removing the restraining clamps.

Pipe/Fitting Selection

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check PN and SDR rating marked on fitting and compare with that of the pipe. If in doubt, seek advice from the pipe or fitting manufacturer.

Fusamatic fittings are suitable for jointing in ambient temperatures between -10°C and +40°C and do not require any form of pre-heat or temperature compensation. For jointing outside these temperatures guidance should be sought from the manufacturer.

Siting Equipment

Wherever possible, the electrofusion equipment should be placed on a suitable clean, dry base board or ground sheet inside a tent/shelter to minimise contamination.

Ensure that the area where the weld is to be carried out has any surface water removed and that some form of groundsheet is used to isolate the jointing area from the trench floor.

THE GOOD GUIDE TO
ELECTROFUSION SADDLE JOINTING

ADDITIONAL EQUIPMENT REQUIRED:

- 12mm cutter key (min length 150mm) and drive
- For stackload versions an appropriate clamp will be required
- For underclamp saddles (other than Multiseal) an appropriate sized socket will be required

SADDLE JOINT ASSEMBLY PREPARATION

1. Expose pipe to which saddle is to be welded ensuring the pipe has no inclusions or gouges in the area where the fitting is to be fused.

2. Ensure enough clearance has been provided (in a trench environment) to carry out the installation.

3. Remove loose dirt from the pipe using a prescribed wipe, damp cloth or paper towel and ensure any risk of contamination from trench wall is minimized.

4. With the fitting still in its protective bag, place over required position on pipe. Mark pipe surface 10mm clear all around contact area and cross hatch the area using a marker pen.

5. Scrape the marked area, ensuring that each stroke of the scraper overlaps the preceding one, keeping hand clear of the scraped surface at all times.

6. For skinned pipe use the manufacturers' recommended tools to remove the skin. Some skinned pipe still requires a scraping operation but advice from the pipe manufacturer should be sought prior to commencement of the installation.

7. Immediately after pipe preparation remove fitting from bag and attach to pipe using suitable clamping equipment.

N.B. For Stackload fittings always bring the clamp to the located fitting, do not slide the fitting under the clamp.

Important Note: Do not touch either prepared pipe surface or the electrofusion surface of the saddle.

Making the weld

1. Follow the same procedure as per socket jointing.

2. Allow weld to cool for the full time stated on fitting before removing stack load clamp or carrying out any cutting or pressure testing operations.

Quality Checks

- Check for any error messages on the control box
- Check fusion indicator has risen on the fitting (saddle fittings only usually have one indicator).
- Check for signs of melt exudation around the saddle base.
- Check that the fitting is square to the main.

SADDLE OUTLET JOINT ASSEMBLY PREPARATION

1. Scrape outlet of tapping tee and service pipe following the procedure described previously for sockets, using an appropriate mechanical scraper

2. Align service pipe and fittings with restraining clamp and make the weld as before.

3. Carry out quality checks as detailed previously

PRESSURE TESTING OF JOINT

- Once the tapping tee has been fused to the pipe and connected to the service pipe, a pressure test can be carried out using a test cap in accordance with the appropriate industry guidelines. Please note it is not possible to use a universal test cap on a Multiseal Tapping Tee

- It is recommended that a pressure no greater than 1.5x the working pressure be used to test the joint integrity.

QUALITY CHECKS

- Check fusion indicator has risen on the fitting.
- Check that no melted material or wire has extruded from the fitting.
- Check for cleanliness around joint area.
- Check for evidence of scraping.

FAILURE OF PRESSURE TEST AND QUALITY CHECK

If the weld fails any of the above checks then:
a) for sockets - cut out the joint and replace.
b) for saddles - do not tap the main and cut off the stack so it cannot be used. Carry out a repeat weld using a new fitting at least one pipe diameter away from the failed joint (this may differ depending on utility requirements).

CUTTING THROUGH MAIN

The Multiseal Tapping Tee offers two cutting options for 'dead' and 'live' mains situations:

OPTION 1 - DEAD OR LOW PRESSURE

1. Unscrew cap and insert cutter key into integral cutter.

2. Turn the cutter key clockwise until the cutter has cut through the main.

3. Retract cutter until top is flush with stack and refit cap.

*** Note: with this option a small amount of leakage will occur until the cutter is fully retracted.**

OPTION 2 - LIVE OR MEDIUM PRESSURE

1. Retract the cutter until its top surface is level with the top of the tapping tee stack.

2. Insert the tube into the cutter by pushing and twisting around 1/4 of a turn. There should be no gap between the cutter and the step on the tube.

3. Insert the 12mm cutter key ensuring it is located at the bottom of the cutter drive.

4. Turn the cutter key clockwise until the cutter has cut through the wall of the main, then retract the cutter until top of the cutter is level with the top of the tapping tee stack.

DO NOT REMOVE THE CUTTER KEY FROM THE TUBE UNTIL THE CUTTER HAS FULLY RETRACTED.

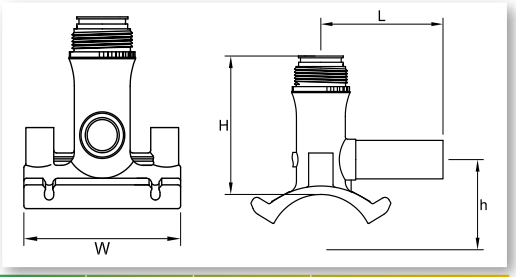
Once the cutter is in the fully retracted position, remove the cutter key and then remove the tube. The cap can then be hand tightened on the tapping tee. Please note that once the cap has been fully tightened down it cannot be removed.

Multiseal Tapping Tee - Stackload

20 - 32mm Outlet

- PE100
- Water PN16
- Gas 10 Bar
- For UK Gas applications:
  - Gas 5.5 bar (Class B)
  - Gas 7 bar (Class C)
- d63x20 - 355x32

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHA63X32T. The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.



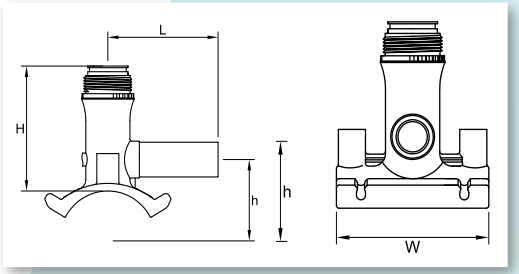
4mm Pin Fitting Code	4.7mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)
		mm	mm	mm	mm	mm	secs	mins	Kg		mm
MTBKHFM63X20	MTBKHA63X20	63 x 20	105	119	62	120	80	10	0.34	15	295 X 485 X 333
MTBKHFM63X25	MTBKHA63X25	63 x 25	105	119	62	120	80	10	0.38	15	295 X 485 X 333
MTBKHFM63X32	MTBKHA63X32	63 x 32	105	119	62	120	80	10	0.38	15	295 X 485 X 333
MTBKHFM75X20	MTBKHA75X20	75 x 20	105	110	77	120	90	10	0.35	15	295 X 485 X 333
MTBKHFM75X25	MTBKHA75X25	75 x 25	105	110	77	120	90	10	0.35	15	295 X 485 X 333
MTBKHFM75X32	MTBKHA75X32	75 x 32	105	110	77	120	90	10	0.35	15	295 X 485 X 333
MTBKHFM90X20	MTBKHA90X20	90 x 20	105	110	77	120	90	10	0.40	15	295 X 485 X 333
MTBKHFM90X25	MTBKHA90X25	90 x 25	105	110	77	120	90	10	0.40	15	295 X 485 X 333
MTBKHFM90X32	MTBKHA90X32	90 x 32	105	110	77	120	90	10	0.40	15	295 X 485 X 333
MTBKHFM110X20	MTBKHA110X20	110 x 20	105	117	87	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM110X25	MTBKHA110X25	110 x 25	105	117	87	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM110X32	MTBKHA110X32	110 x 32	105	117	87	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM125X20	MTBKHA125X20	125 x 20	105	117	95	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM125X25	MTBKHA125X25	125 x 25	105	117	95	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM125X32	MTBKHA125X32	125 x 32	105	117	95	120	80	10	0.39	15	295 X 485 X 333
MTBKHFM160X20	MTBKHA160X20	160 x 20	105	122	112	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM160X25	MTBKHA160X25	160 x 25	105	122	112	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM160X32	MTBKHA160X32	160 x 32	105	122	112	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM180X20	MTBKHA180X20	180 x 20	105	122	122	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM180X25	MTBKHA180X25	180 x 25	105	122	122	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM180X32	MTBKHA180X32	180 x 32	105	122	122	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM200X20	MTBKHA200X20	200 x 20	105	122	132	120	100	10	0.38	15	295 X 485 X 333
MTBKHFM200X25	MTBKHA200X25	200 x 25	105	122	132	120	100	10	0.38	15	295 X 485 X 333
MTBKHFM200X32	MTBKHA200X32	200 x 32	105	122	132	120	100	10	0.38	15	295 X 485 X 333
MTBKHFM225X20	MTBKHA225X20	225 x 20	105	122	145	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM225X25	MTBKHA225X25	225 x 25	105	122	145	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM225X32	MTBKHA225X32	225 x 32	105	122	145	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM250X20	MTBKHA250X20	250 x 20	105	122	158	120	100	10	0.37	15	295 X 485 X 333
MTBKHFM250X25	MTBKHA250X25	250 x 25	105	122	158	120	100	10	0.37	15	295 X 485 X 333
MTBKHFM250X32	MTBKHA250X32	250 x 32	105	122	158	120	100	10	0.37	15	295 X 485 X 333
MTBKHFM280X20	MTBKHA280X20	280 x 20	105	122	176	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM280X25	MTBKHA280X25	280 x 25	105	122	176	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM280X32	MTBKHA280X32	280 x 32	105	122	176	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM315X20	MTBKHA315X20	315 x 20	105	122	194	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM315X25	MTBKHA315X25	315 x 25	105	122	194	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM315X32	MTBKHA315X32	315 x 32	105	122	194	120	100	10	0.41	15	295 X 485 X 333
MTBKHFM355X20	MTBKHA355X20	355 x 20	105	122	214	120	100	10	0.40	15	295 X 485 X 333
MTBKHFM355X25	MTBKHA355X25	355 x 25	105	122	214	120	100	10	0.40	15	295 X 485 X 333
MTBKHFM355X32	MTBKHA355X32	355 x 32	105	122	214	120	100	10	0.40	15	295 X 485 X 333

Multiseal Tapping Tee - Stackload

63mm Outlet

- PE100
- Water PN16
- Gas 10 Bar
- For UK Gas applications:
  - Gas 5.5 bar (Class B)
  - Gas 7 bar (Class C)
- d250x63 - 355x63
- 40 and 50mm outlet available on request

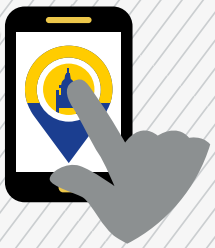
To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHA250X63T. The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.



4mm Pin Fitting Code	4.7mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)
		mm	mm	mm	mm	mm	secs	mins	Kg		mm
MTBKHFM250X63	MTBKHA250X63	250 x 63	165	183	182	146	110	10	0.87	10	295 X 485 X 333
MTBKHFM280X63	MTBKHA280X63	280 x 63	165	184	196	146	120	10	0.88	10	295 X 485 X 333
MTBKHFM315X63	MTBKHA315X63	315 x 63	165	187	217	146	120	10	0.89	10	295 X 485 X 333
MTBKHFM355X63	MTBKHA355X63	355 x 63	165	187	238	146	120	10	0.91	10	295 X 485 X 333

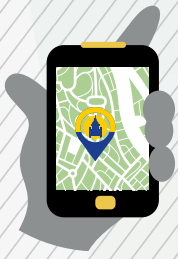
AVK INSTALLATION TRACKER IS THE ASSET MANAGEMENT SYSTEM* FOR VALVES, FITTINGS AND ASSOCIATED PRODUCTS. UTILISING A NEW, PURPOSE BUILT, USER FRIENDLY MOBILE APP AND WEB PORTAL.

AVK installation tracker uses a QR code platform, designed to give full traceability of your assets providing the data on each installed asset, and gives the opportunity to review the quality of the joints and the installation. This, combined with a unique GPS pin location and a picture of each installation, ensures that you have a complete, accurate and auditable record of every installation. Furthermore, all the data recorded can be exported into standard data formats for integration into the clients existing mapping system. * Patent pending.



DOWNLOAD THE APP

SCAN THE QR CODE



SET LOCATION

TAKE THE INSTALLATION PICTURE

AVK INSTALLATION TRACKER HAS ALL YOU NEED TO MANAGE FUTURE TRACEABILITY

Access to the recorded data, collected from the app is via a user friendly web portal providing at a glance accurate records.

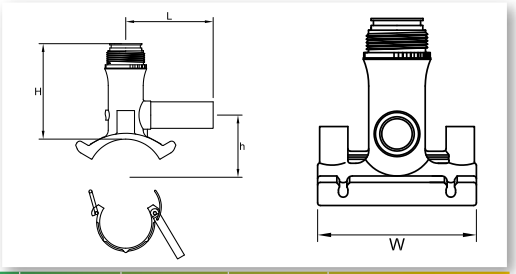
- INCREASED ASSET TRACEABILITY
- VISUALLY AUDIT THE INSTALLATION QUALITY
- RECORD INDIVIDUAL ASSET INSTALLATIONS
- EXPORTABLE DATA INTO STANDARD FORMATS
- ACCURATE GPS PIN LOCATION
- PERIODIC INSTALLATION AUDIT REPORT AVAILABLE

Multiseal Tapping Tee - Underclamp

20 - 32mm Outlet

- PE100
- Water PN16
- Gas 10 Bar
- For UK Gas applications:
  - Gas 5.5 bar (Class B)
  - Gas 7 bar (Class C)
- d40x20 - 225x32

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHA63X32UT. The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.



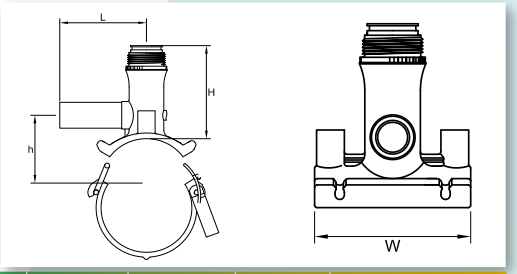
4mm Pin Fitting Code	4.7mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)
		mm	mm	mm	mm	mm	secs	mins	Kg		mm
MTBKHFM40X20U	MTBKHA40X20U	40 x 20	105	110	50	120	40	3	0.38	10	295 X 485 X 199
MTBKHFM40X25U	MTBKHA40X25U	40 x 25	105	110	50	120	40	3	0.38	10	295 X 485 X 199
MTBKHFM40X32U	MTBKHA40X32U	40 x 32	105	110	50	120	40	3	0.38	10	295 X 485 X 199
MTBKHFM50X20U	MTBKHA50X20U	50 x 20	105	110	50	120	40	3	0.40	10	295 X 485 X 199
MTBKHFM50X25U	MTBKHA50X25U	50 x 25	105	110	50	120	40	3	0.40	10	295 X 485 X 199
MTBKHFM50X32U	MTBKHA50X32U	50 x 32	105	110	50	120	40	3	0.40	10	295 X 485 X 199
MTBKHFM63X20U	MTBKHA63X20U	63 x 20	105	119	62	120	80	10	0.53	10	295 X 485 X 199
MTBKHFM63X25U	MTBKHA63X25U	63 x 25	105	119	62	120	80	10	0.53	10	295 X 485 X 199
MTBKHFM63X32U	MTBKHA63X32U	63 x 32	105	119	62	120	80	10	0.53	10	295 X 485 X 199
MTBKHFM75X20U	MTBKHA75X20U	75 x 20	105	110	77	120	90	10	0.67	10	295 X 485 X 333
MTBKHFM75X25U	MTBKHA75X25U	75 x 25	105	110	77	120	90	10	0.67	10	295 X 485 X 333
MTBKHFM75X32U	MTBKHA75X32U	75 x 32	105	110	77	120	90	10	0.67	10	295 X 485 X 333
MTBKHFM90X20U	MTBKHA90X20U	90 x 20	105	110	77	120	90	10	0.61	10	295 X 485 X 333
MTBKHFM90X25U	MTBKHA90X25U	90 x 25	105	110	77	120	90	10	0.61	10	295 X 485 X 333
MTBKHFM90X32U	MTBKHA90X32U	90 x 32	105	110	77	120	90	10	0.61	10	295 X 485 X 333
MTBKHFM110X20U	MTBKHA110X20U	110 x 20	105	117	87	120	80	10	0.65	10	295 X 485 X 333
MTBKHFM110X25U	MTBKHA110X25U	110 x 25	105	117	87	120	80	10	0.65	10	295 X 485 X 333
MTBKHFM110X32U	MTBKHA110X32U	110 x 32	105	117	87	120	80	10	0.65	10	295 X 485 X 333
MTBKHFM125X20U	MTBKHA125X20U	125 x 20	105	117	95	120	80	10	0.66	10	295 X 485 X 333
MTBKHFM125X25U	MTBKHA125X25U	125 x 25	105	117	95	120	80	10	0.66	10	295 X 485 X 333
MTBKHFM125X32U	MTBKHA125X32U	125 x 32	105	117	95	120	80	10	0.67	10	295 X 485 X 333
MTBKHFM160X20U	MTBKHA160X20U	160 x 20	105	122	112	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM160X25U	MTBKHA160X25U	160 x 25	105	122	112	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM160X32U	MTBKHA160X32U	160 x 32	105	122	112	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM180X20U	MTBKHA180X20U	180 x 20	105	122	122	120	100	10	0.75	10	295 X 485 X 333
MTBKHFM180X25U	MTBKHA180X25U	180 x 25	105	122	122	120	100	10	0.75	10	295 X 485 X 333
MTBKHFM180X32U	MTBKHA180X32U	180 x 32	105	122	122	120	100	10	0.75	10	295 X 485 X 333
MTBKHFM200X20U	MTBKHA200X20U	200 x 20	105	122	132	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM200X25U	MTBKHA200X25U	200 x 25	105	122	132	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM200X32U	MTBKHA200X32U	200 x 32	105	122	132	120	100	10	0.73	10	295 X 485 X 333
MTBKHFM225X20U	MTBKHA225X20U	225 x 20	105	122	145	120	100	10	0.78	10	295 X 485 X 424
MTBKHFM225X25U	MTBKHA225X25U	225 x 25	105	122	145	120	100	10	0.78	10	295 X 485 X 424
MTBKHFM225X32U	MTBKHA225X32U	225 x 32	105	122	145	120	100	10	0.78	10	295 X 485 X 424

Multiseal Tapping Tee - Underclamp

40 - 63mm Outlet

- PE100
- Water PN16
- Gas 10 Bar
- For UK Gas applications:
  - Gas 5.5 bar (Class B)
  - Gas 7 bar (Class C)
- d63x40 - 225x63

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHA225X40UT. The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.



4mm Pin Fitting Code	4.7mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)
		mm	mm	mm	mm	mm	secs	mins	Kg		mm
MTBKHFM63X40U	MTBKHA63X40U	63 x 40	165	155	59.5	146	100	10	0.95	5	295 X 485 X 333
MTBKHFM63X50U	MTBKHA63X50U	63 x 50	165	155	59.5	146	100	10	0.96	5	295 X 485 X 333
MTBKHFM63X63U	MTBKHA63X63U	63 x 63	165	155	59.5	146	100	10	1.01	5	295 X 485 X 333
MTBKHFM75X40U	MTBKHA75X40U	75 x 40	165	152	57	146	120	10	1.10	5	295 X 485 X 333
MTBKHFM75X50U	MTBKHA75X50U	75 x 50	165	152	57	146	120	10	1.10	5	295 X 485 X 333
MTBKHFM75X63U	MTBKHA75X63U	75 x 63	165	152	57	146	120	10	1.15	5	295 X 485 X 333
MTBKHFM90X40U	MTBKHA90X40U	90 x 40	165	152	57	146	100	10	1.06	5	295 X 485 X 333
MTBKHFM90X50U	MTBKHA90X50U	90 x 50	165	152	57	146	100	10	1.10	5	295 X 485 X 333
MTBKHFM90X63U	MTBKHA90X63U	90 x 63	165	152	57	146	100	10	1.12	5	295 X 485 X 333
MTBKHFM110X40U	MTBKHA110X40U	110 x 40	165	176	105	146	100	10	1.09	5	295 X 485 X 333
MTBKHFM110X50U	MTBKHA110X50U	110 x 50	165	176	105	146	100	10	1.10	5	295 X 485 X 333
MTBKHFM110X63U	MTBKHA110X63U	110 x 63	165	176	105	146	100	10	1.15	5	295 X 485 X 333
MTBKHFM125X40U	MTBKHA125X40U	125 x 40	165	178	112	146	100	10	1.10	5	295 X 485 X 333
MTBKHFM125X50U	MTBKHA125X50U	125 x 50	165	178	112	146	100	10	1.15	5	295 X 485 X 333
MTBKHFM125X63U	MTBKHA125X63U	125 x 63	165	178	112	146	100	10	1.20	5	295 X 485 X 333
MTBKHFM160X40U	MTBKHA160X40U	160 x 40	165	182	137	146	100	10	1.13	5	295 X 485 X 333
MTBKHFM160X50U	MTBKHA160X50U	160 x 50	165	182	137	146	100	10	1.14	5	295 X 485 X 333
MTBKHFM160X63U	MTBKHA160X63U	160 x 63	165	182	137	146	100	10	1.19	5	295 X 485 X 333
MTBKHFM180X40U	MTBKHA180X40U	180 x 40	165	183	147	146	100	10	1.15	5	295 X 485 X 333
MTBKHFM180X50U	MTBKHA180X50U	180 x 50	165	183	147	146	100	10	1.17	5	295 X 485 X 333
MTBKHFM180X63U	MTBKHA180X63U	180 x 63	165	183	147	146	100	10	1.22	5	295 X 485 X 333
MTBKHFM200X40U	MTBKHA200X40U	200 x 40	165	183	157	146	100	10	1.15	5	295 X 485 X 333
MTBKHFM200X50U	MTBKHA200X50U	200 x 50	165	183	157	146	100	10	1.17	5	295 X 485 X 333
MTBKHFM200X63U	MTBKHA200X63U	200 x 63	165	183	157	146	100	10	1.21	5	295 X 485 X 333
MTBKHFM225X40U	MTBKHA225X40U	225 x 40	165	183	169	146	100	10	1.15	5	295 X 485 X 333
MTBKHFM225X50U	MTBKHA225X50U	225 x 50	165	183	169	146	100	10	1.17	5	295 X 485 X 333
MTBKHFM225X63U	MTBKHA225X63U	225 x 63	165	183	169	146	100	10	1.22	5	295 X 485 X 333

Fusion Group Limited
Chesterfield
Derbyshire
S41 9PZ
England, UK

T: +44 (0) 1246 268666
E: sales@fusiongroup.com
www.fusiongroup.com

Member of the AVK group.