

GLOBAL PE PRODUCT OFFER AND GROSS PRICE LIST 2022

FOR GAS, WATER, MINING AND IRRIGATION APPLICATIONS

Fusion

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For more information visit our website www.fusiongroup.com

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Delivery Codes

Throughout the Global PE Product Offer products are categorised into 3 delivery codes which are based on our delivery commitments, these are as follows;

A = Available ex-stock, or up to 2 weeks
B = Up to 8 weeks
C = Upon enquiry

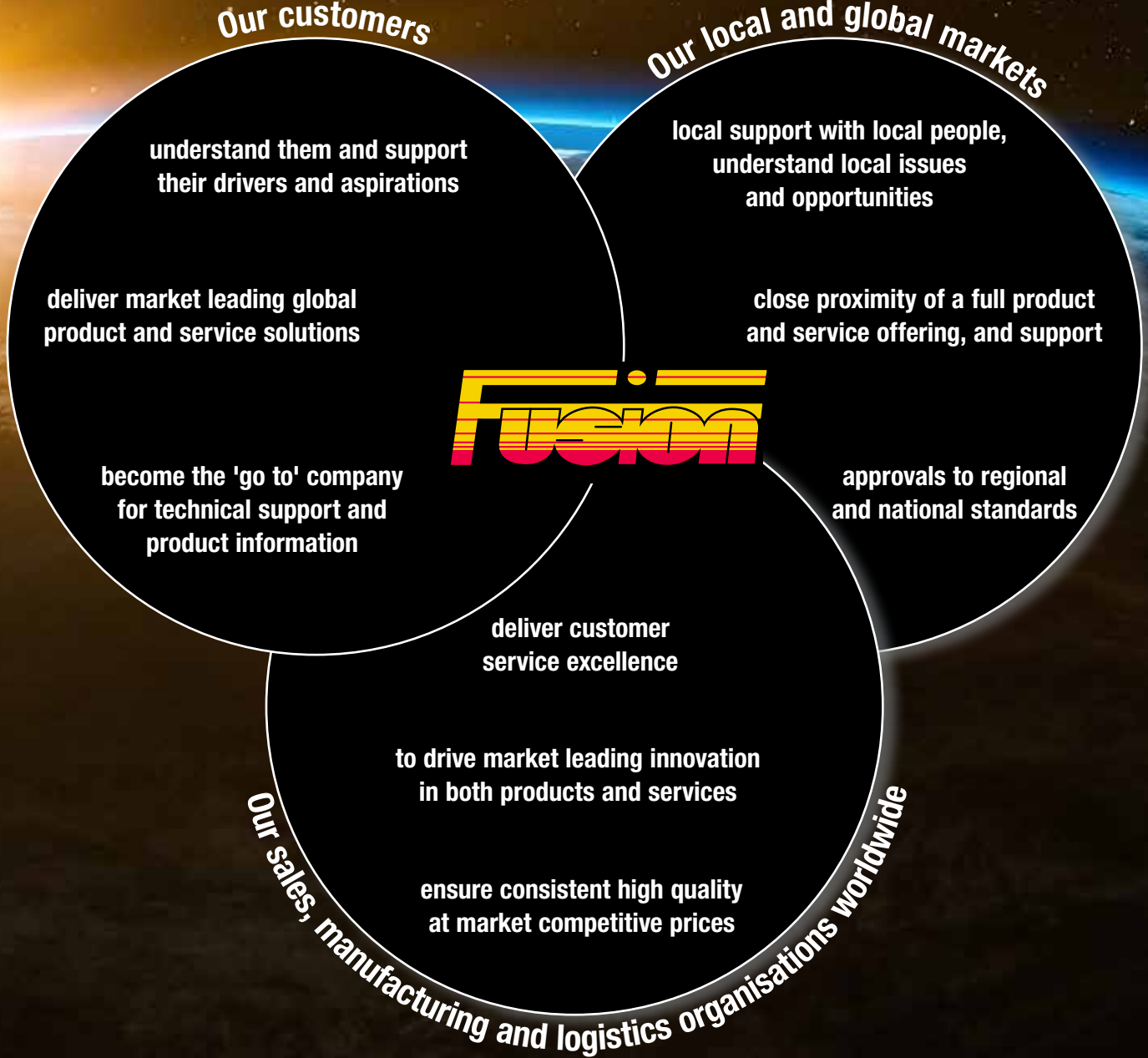
The above lead times are provided as an indication only and are manufacturing replenishment times in the event of a stock-out.

If your request is of an urgent nature, please email **sales@fusiongroup.com** or telephone **+44(0)1246 260111** for further details regarding delivery commitments.

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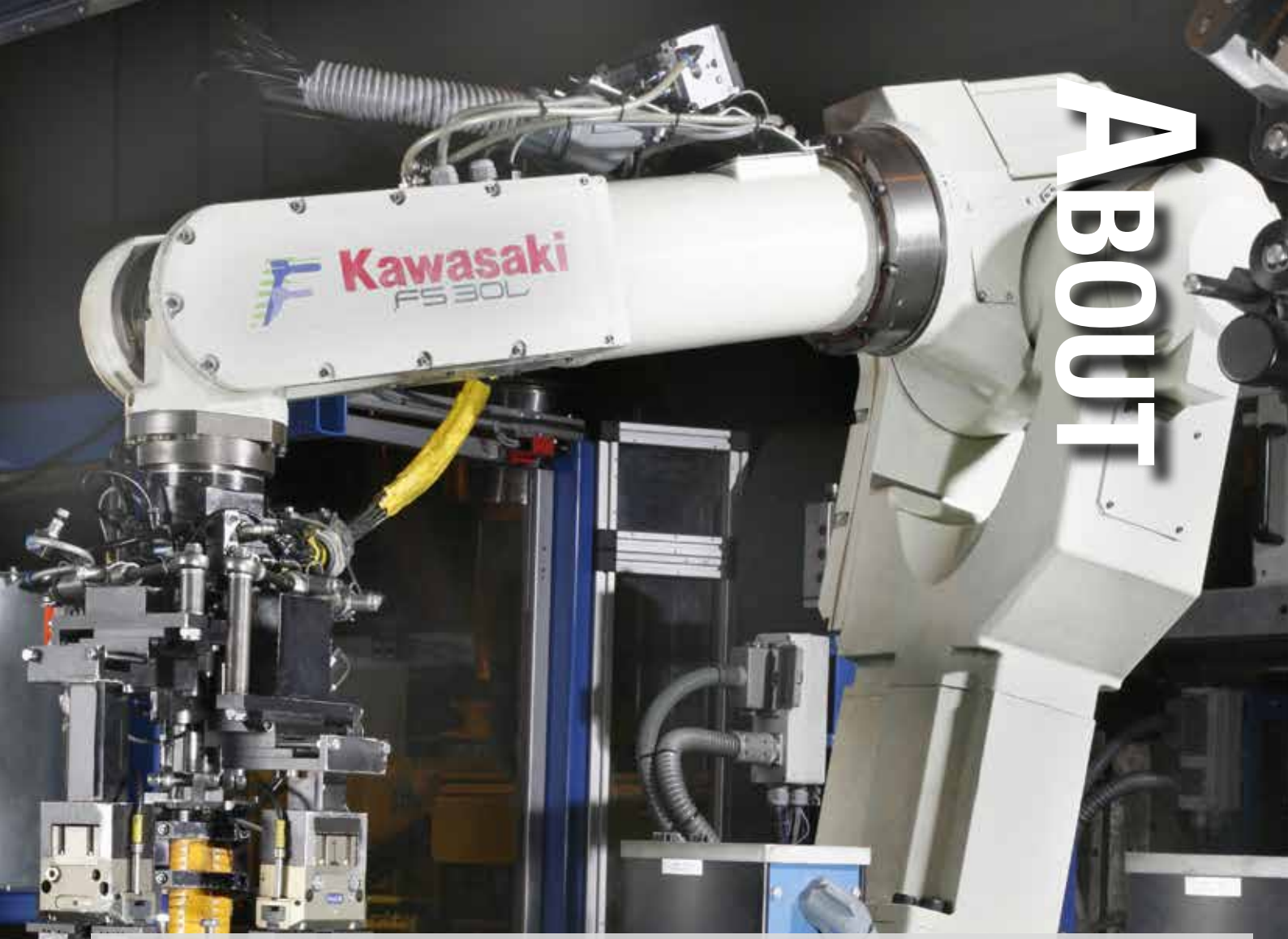
MISSION

"The Fusion Group Strategy is to become the customers' preferred partner as the leading innovator, manufacturer and supplier of products and services for gas and water polyethylene pipeline systems, worldwide…"



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ABOUT



Fusion Group pioneered polyethylene pipe jointing in the UK and across the globe, and continues to provide innovative solutions for multiple industries. In 2017, Fusion became a member of the AVK Group of Companies, a partnership that has resulted in a broader product and service offer, a strengthened manufacturing base, and an amalgamation of expertise and ideas.

Polyethylene Solutions for over 50 years
Fusion is built around the knowledge and expertise of our people and their passion to deliver innovation. For over 50 years we have been supporting you with a complete polyethylene solutions package for your gas and water infrastructure, mining, energy and agricultural projects.

Our specialist teams are able to work with you throughout every step of your customer journey - from advice on site specification and product selection, all the way to providing installer training to your teams. When you work with Fusion, our promise to you is that you can expect quality throughout every step of the process and can trust that we will always be here for you.

World-Class Manufacturing
Fusion boasts world class manufacturing, testing, and inspection facilities, with lean principles of continuous improvement integrated into our manufacturing culture.

We pride ourselves on our products being fully traceable, right down to the core components.

High Standards
Fusion and AVK believe in much more than simply supplying a finished product to a customer. In order to assure you of our continued excellence, we have achieved ISO 9001 and ISO/TS 29001 certification.

We also hold many 3rd party product approvals and are regularly audited by organisations such as Bureau Veritas, AMI, BSI, DVGW, INSTA-CERT and others to ensure our products meet – and often exceed – the highest standards of safety and durability.

This Global PE product offer brochure for gas and water features our extensive product range; PE ball and butterfly valves, electrofusion, spigot and transition fittings, access systems and associated equipment and ancillaries.

For further information on the Fusion Group product range visit our website - **www.fusiongroup.com**

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CUSTOMER PROMISES



Our unique selling propositions enable us to give eight important promises to our customers:

SOLUTIONS, NOT ONLY PRODUCTS

GLOBAL LEADERSHIP AND LOCAL COMMITMENT

QUALITY IN EVERY STEP

PROMPT RESPONSE

LASTING INNOVATIONS

TOTAL SAVINGS

A LONG-TERM PARTNERSHIP

TO BE EFFECTIVE AND EASY

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FUSION ASSIST



...Assist

FUSION GROUP HAS A REPUTATION FOR BEING A LEADING INNOVATOR AND SOLUTIONS PROVIDER IN THE GLOBAL GAS, WATER AND INDUSTRIAL SECTORS. FUSION ASSIST IS THE LATEST INNOVATION THAT DRIVES THIS REPUTATION.

By building relationships with our partners, through listening and responding to both their key strategies and to their daily operational challenges, we are able to develop solution led products and services which help deliver and resolve.

Network management and asset mapping are 2 key subjects highlighted in the majority of utility strategies as ongoing issues, the **FUSION ASSIST** mobile app can make a major contribution on the journey to a resolution of the issues.

FUSION ASSIST is a free app aimed at utility and industrial, gas and water network engineers. The app is made up of 4 key elements which will help specify, select and then record the installation quality and GPS location of an asset.

The **FUSION ASSIST** APP is available to download for free;

Download on the App Store

GET IT ON Google Play

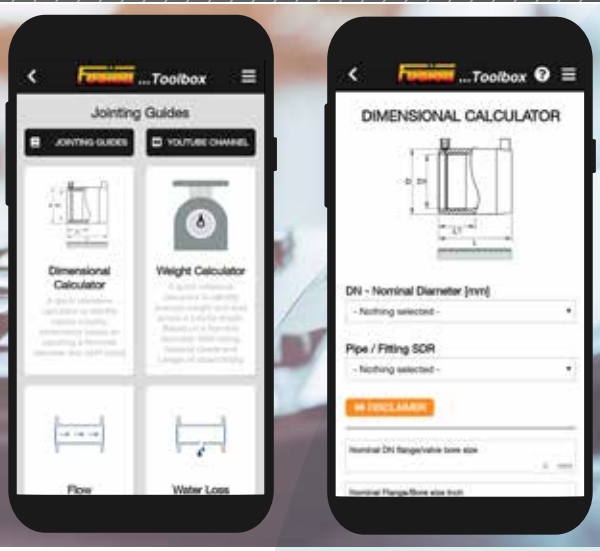


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FUSION TOOLBOX

Provides a central area to access practical tips, tools and reference guides which support installation, training and design of piping systems.



FUSION AR

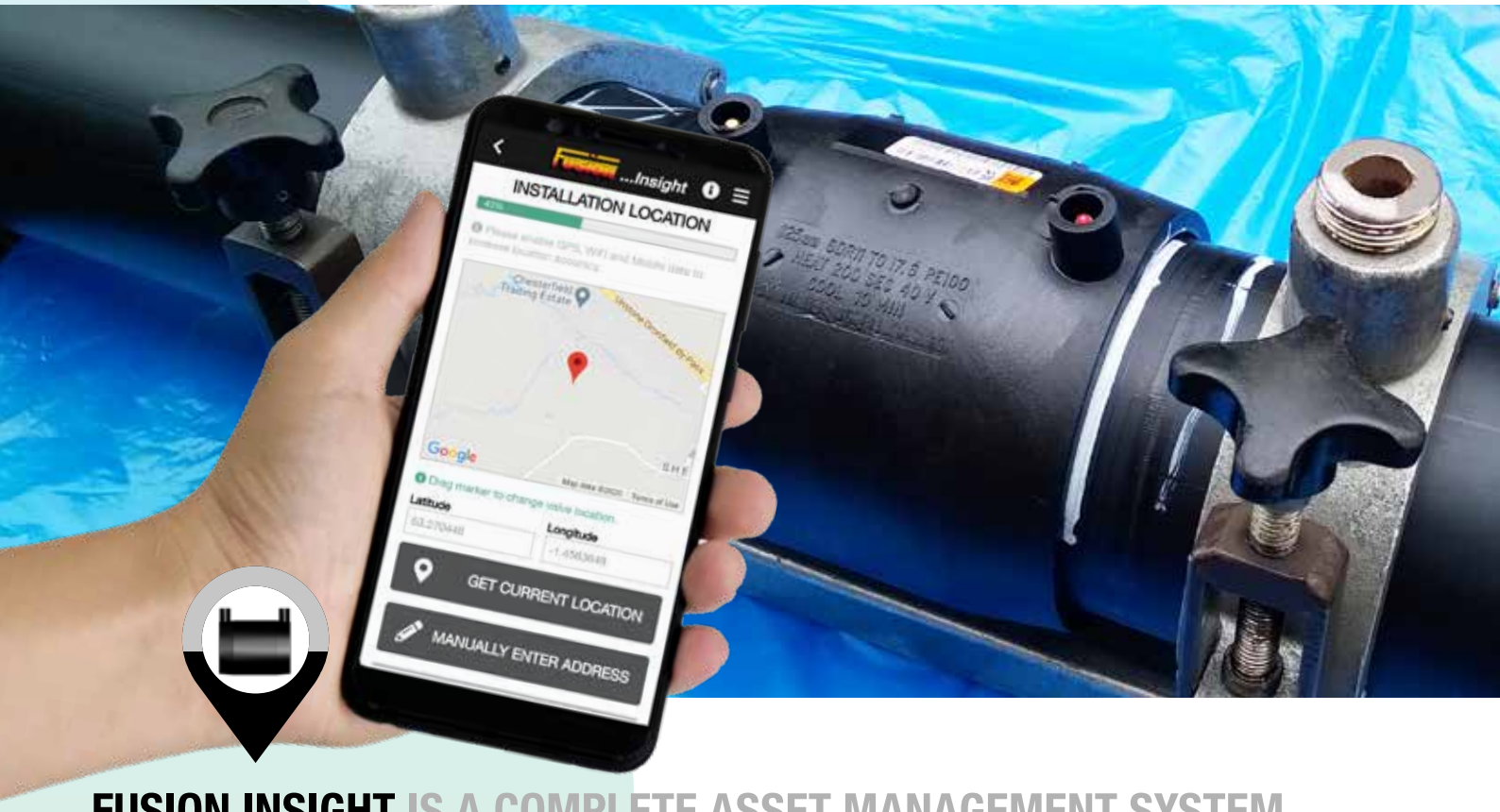
Use augmented reality to get inside our product offer.

ABOUT FUSION

An insight into the history of Fusion Group and helps the user to understand our business drivers and strategies.

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...Insight



FUSION INSIGHT IS A COMPLETE ASSET MANAGEMENT SYSTEM

Fusion Insight uses a QR/barcode 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 installation.

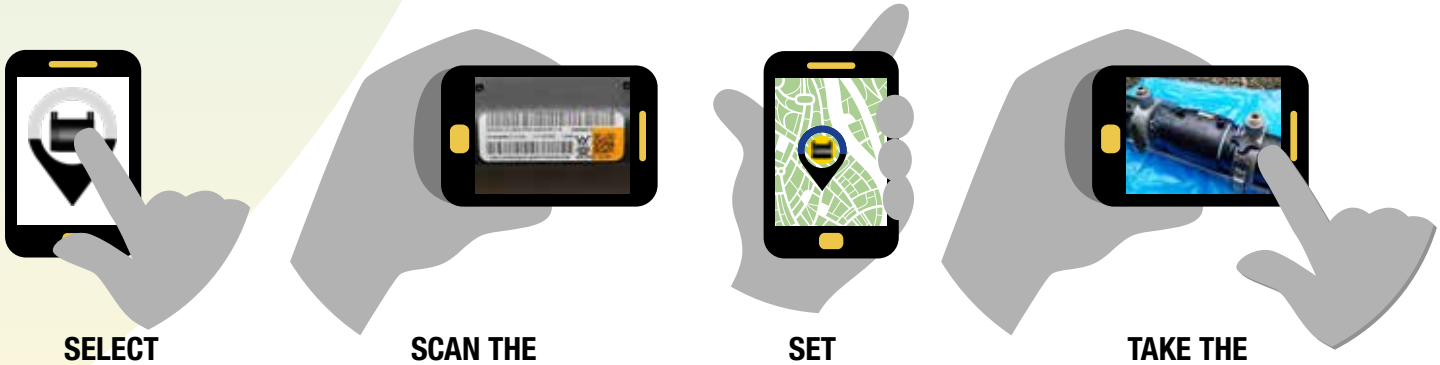
This, combined with a unique GPS pin location and a picture of each installation ensures that you have a complete, accurate and auditable record of every installation. Furthermore, all the data recorded can be exported into standard data formats for integration into existing mapping systems.

FULL TRACEABILITY IN A FEW SIMPLE STEPS...

QR/barcodes are critical tools to increase traceability of assets both above and below ground. Fusion Insight is a growing development to capture such barcodes and wider traceability data about an electrofusion fitting, AVK valve or other assets being installed.

Fusion Insight can specifically capture traceability data for an electrofusion asset by scanning the ISO 12176-4 standard barcode system. In addition the app will also record asset location via GPS, core installation parameters and reference images for that asset within one central record.

When a Fusamatic fitting is scanned, the app will even prompt the user to record Fusion's unique QR code which contains an individual fitting number providing enhanced traceability right down to the raw materials used to manufacture the fittings.



SELECT FUSION INSIGHT*

SCAN THE QR/BARCODE

SET LOCATION

TAKE THE INSTALLATION PICTURES

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FUSION INSIGHT IN CONJUNCTION WITH OUR NEW 4MM FUSAMATIC AUTOMATIC PIN ELECTROFUSION FITTINGS DRIVES CONSISTENCY AND CONTROL, FROM RAW MATERIAL TO INSTALLING YOUR ASSETS IN THE GROUND.



By providing all markets with the option to weld Fusamatic electrofusion fittings automatically, coupled with the use of Fusion Insight gives you the perfect solution towards end-to-end control over the welding process.



FUSION INSIGHT IS THE PERFECT SOLUTION TO MANAGE FUTURE TRACEABILITY

Access to the recorded data collected from the Fusion Assist App is via a user friendly web portal* which provides at-a-glance accurate records.

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

THE WEB PORTAL*

Note: To access Fusion Insight and the dedicated web portal an account needs to be created by our technical team. For new account requests please email **tech@fusiongroup.com to set up your FREE Fusion Insight account.*





Secure Customer log in



Asset location on map (colours represent different assets)

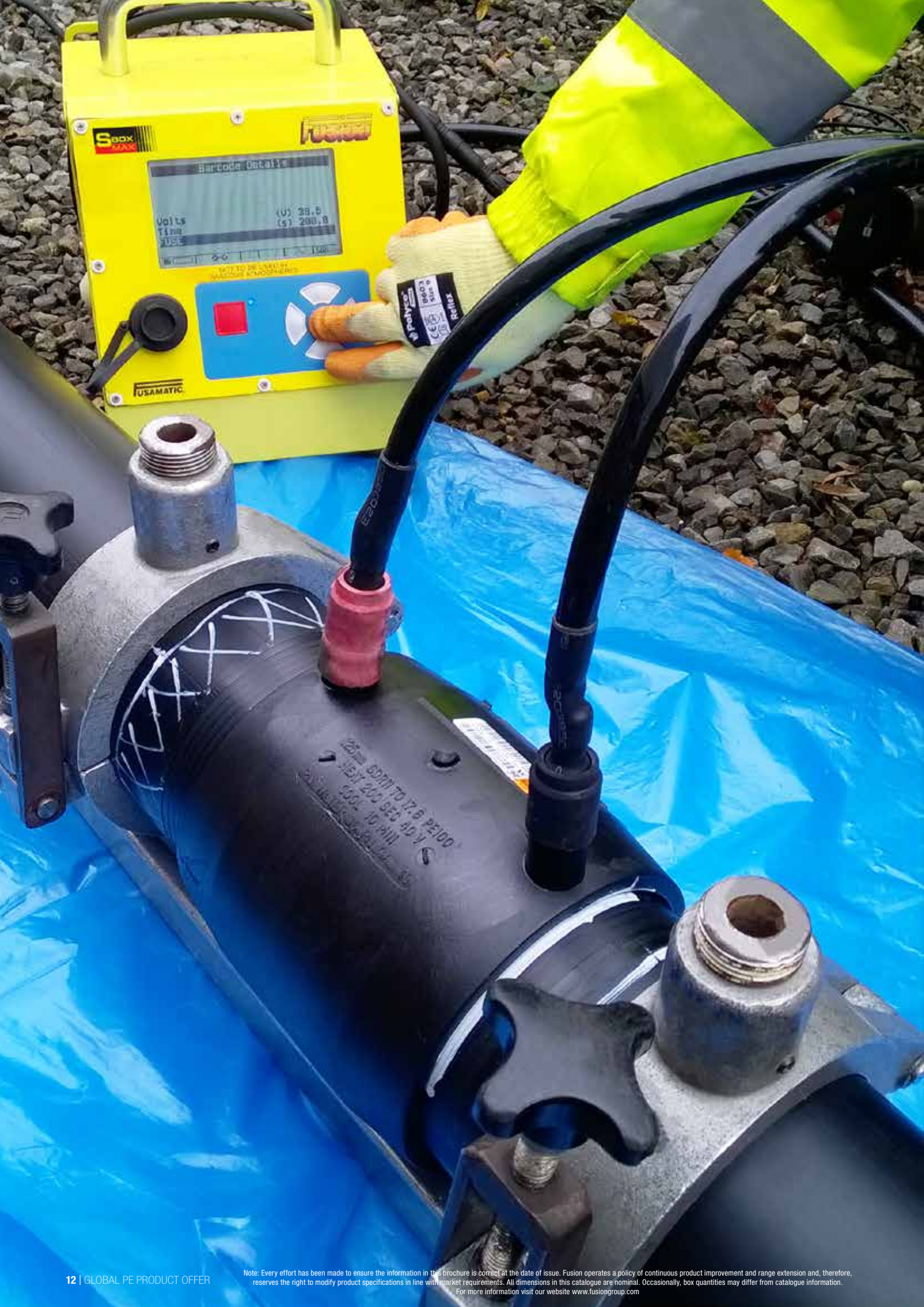


Verify pictorial record



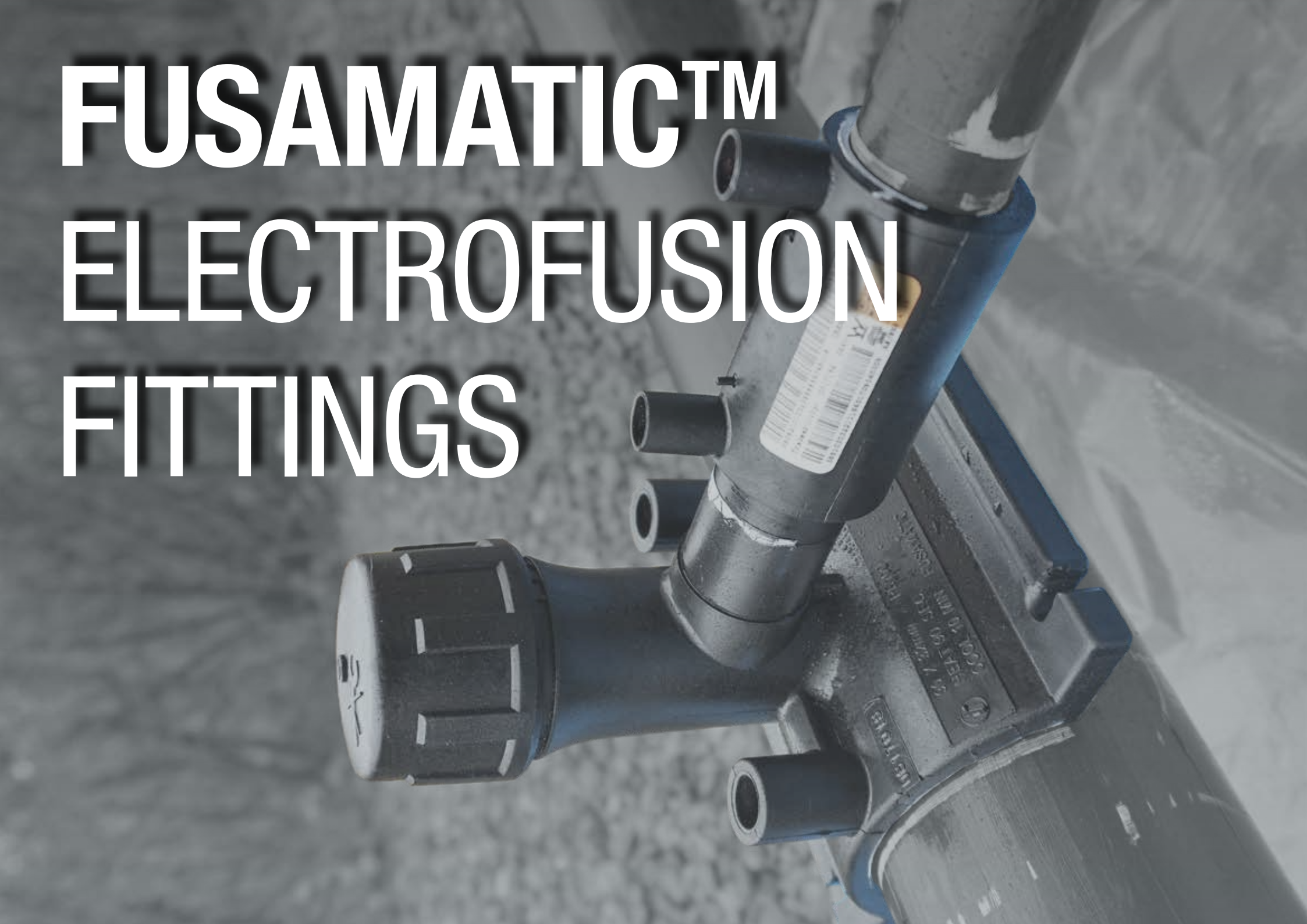
Data record includes: asset type, materials, size, pressure and who installed the asset

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FUSAMATIC™ ELECTROFUSION FITTINGS



FUSAMATIC™ ELECTROFUSION FITTINGS
FOR GAS AND WATER



Fusion Group is a world-leader in the manufacture of electrofusion fittings. All Fusion's electrofusion fittings are individually inspected using a computerised monitoring system that utilises advanced barcode technology. The barcode provides full individual fitting traceability right down to the polymer batch.

Together, electrofusion fittings and polyethylene pipes enable utilities, designers and contractors to create fully welded pipe networks. The production quality, reliability and flexibility of Fusion's electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.

Sizes
Sizes range from d20 to 630+,
d710 to 1200 available on request

Pressure Ratings
All fittings are manufactured in virgin PE100 black polyethylene and pressure rated up to 10 bar for gas applications and 16 bar for water applications, unless stated otherwise.

NOTE: For UK gas applications (GIS PL2 Part 4) the maximum operating pressure can be either 5.5 bar or 7 bar dependant on the Class rating. For more detailed information contact us.

SDR Ratings
The appropriate pipe SDR rating for electrofusion fittings is in accordance with:

FITTING SIZES BELOW 63mm - Pipe SDR11
- Coupler
- Elbow
- Reducer
- Equal tee
- Tapping tee
- Branch saddle
- Transition fittings

FITTING SIZES 63mm AND ABOVE - Pipe SDR11 to 17.6
- Coupler
- Elbow
- Reducer
- Equal tee
- Tapping tee*
- Branch saddle
- Hydrant products
- Transition fittings

* Tapping tees for 63mm mains only are not suitable for SDR17 pressurised pipe applications.

Testing can be carried out on SDR rated pipe outside the stated ranges if required.
Please contact Fusion's sales team on +44 (0)1246 260111 for details.

Testing
Fusamatic branded electrofusion fittings are tested, accredited and approved against many international performance standards* including:
- Kitemark GIS/PL2-4
- Kitemark GIS/PL2-6
- AS/NZS 4129, Watermark and ISO Type 5 Licence
- EN 1555-3
- UNI EN 1555-3
- INSTA SBC EN 1555-3
- EN 12201-3
- UNI EN 12201-3
- INSTA SBC EN 12201-3
- EN ISO 15494
- UNI EN ISO 15494
- WRAS
- ACS
- DVGW GW 335-B2-B1
- KIWA BRL-K17105

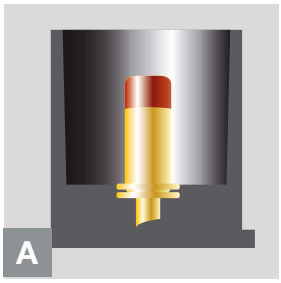
*Due to size and fitting type regulations across standards, some items listed in this brochure may not be certified under the standards listed above.

Please contact Fusion's sales team on +44 (0)1246 260111 before placing your order.

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FUSAMATIC













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!

Indicators

Pressure, created by the expanding molten plastic in the jointing area (inside the fitting) during the electrofusion process, will force out the indicator lugs. This is a visible sign that the necessary jointing pressure has been achieved.

Moulded-in welding parameters

Manual welding parameters are moulded into the body of all Fusion's fittings. Information provided includes fitting size, material (PE100), applicable pipe SDRs, weld parameters, and pressure ratings for gas and water applications.

Permanently marked batch number

The injection moulded batch number is just one of numerous quality control identifiers on each Fusamatic fitting.
It is replicated on the fitting's barcode.

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 and welding information when used in conjunction with electrofusion boxes equipped with a barcode scanner.

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FUSAMATIC™ ELECTROFUSION FITTINGS
PRODUCT CODE GUIDE



MTBKHFA63X20U

Example	
MT	Multiseal Tapping Tee
BKH	Black PE100
FA	4mm Automatic Pin
63X20	63mm x 20mm
U	Underpart

1. Type of product	
C	Coupler
EC	End Cap
R	Reducer
E	Elbow
ET	Equal Tee
RT	Reducing Tee
FT	Flanged Tee
MT	Multiseal Tapping Tee
FLT	Flextee Tapping Tee
MB	Branch Saddle
B	Branch Saddle
FB	Flanged Branch Saddle - Fastcut/Flowstop
ZC	Male Transition Coupler
XC	Female Transition Coupler
ZE	Male Transition Elbow
XE	Female Transition Elbow
XB	Balloon Saddle / Transition Saddle
PES	PE – Steel Transition Piece
DFB	Duckfoot Bend Kit / Duckfoot bend
HBSH	Hydrant Branch Saddle Kit

2. Colour of fitting	
BKH	Black PE100

3. Welding method guide	
FA	4mm automatic pin
FM	4mm manual pin
M	4.7mm manual pin

4. Size guide example	
40X20	40mm x 20mm
63X20	63mm x 20mm

5. Extras	
U	Underpart
UT	Underpart and Tube
T	Tube
DP	Dual Purpose
ALH	For use with flow stop equipment
W	Weldable
KR	Kit with Rilsan Backing Ring
LP	Low Pressure

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FUSAMATIC™ MULTISEAL TAPPING TEE
FOR GAS AND WATER



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

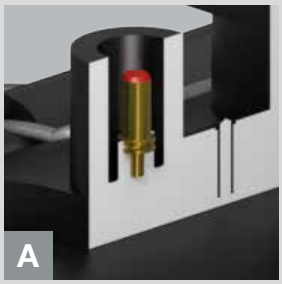


Multiseal Tapping Tees deliver security, safety, simplicity and speed at the point of installation and offer a solution to providing a direct connection from a live or dead main.

Sizes
Sizes range from d40 – 400/450mm 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)).

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.



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.

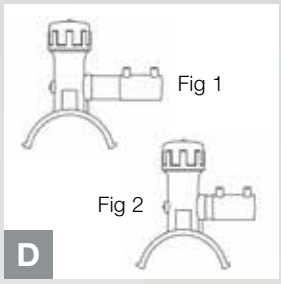
All the operator has to do is press go!



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.



Optional Cutter Tube
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. MTBKHA63X32T



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).



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, provides proof of clamping during the fusion cycle and applies the right amount of force every time for a quality joint.



Barcode / QR Code
Quality control is central to the success of Fusion's fittings. The unique barcode configuration (compliant with ISO 13950 welding and ISO 12176-4 traceability), including QR code, provides full traceability of raw material for each individual fitting and welding information when used in conjunction with electrofusion boxes equipped with a barcode scanner.

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THE GOOD GUIDE TO
ELECTROFUSION JOINTING



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



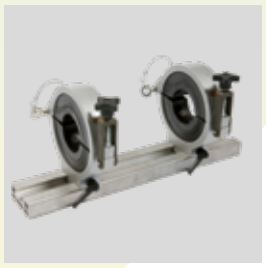
Indelible marker pen



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

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Principles

Electrofusion is a method of joining PE pipes using fittings with integral heating elements. Socket fittings 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.

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THE GOOD GUIDE TO
ELECTROFUSION SOCKET JOINTING

Pre-Jointing Checks

- Accept only equipment which has been regularly serviced and is in good condition.
- Check that clamps and liners are correct and clean. Advice on appropriate clamps and scrapers is available from all fitting manufacturers.
- Check that the scrapers are clean and the blade is not damaged and is in good condition.
- Check that the fitting is still in its original packaging and that the bag is not damaged or contains any condensation or dust.

Pipe preparation - controlling ovality

- Ovality in PE pipe can occur as a result of coiling, storage and transportation.
- Fusamatic Electrofusion fittings have been designed to allow for a small degree of ovality (1 – 2%), but excessive gaps should be avoided by using alignment clamps with a re-rounding ability.
- In order to correct the effects of pipe ovality prior to the electrofusion process it is recommended that re-rounding clamps and/or tools be used as appropriate. This is particularly important where coiled or thin walled pipe is being used as ovality in these cases can be extreme.
- Use the appropriate re-rounding clamp as per manufacturers' instructions.

SOCKET JOINT ASSEMBLY PREPARATION

1. Check that the pipe ends are cut square and are free from surface damage and swarf.

2. Wipe loose dirt from the area of pipe to be clamped and fused with a prescribed wipe, damp cloth or paper towel. (Wipe any contaminates from the inside of the pipe).



3. Mark the insertion depth on the pipe by holding the bagged fitting against the pipe.



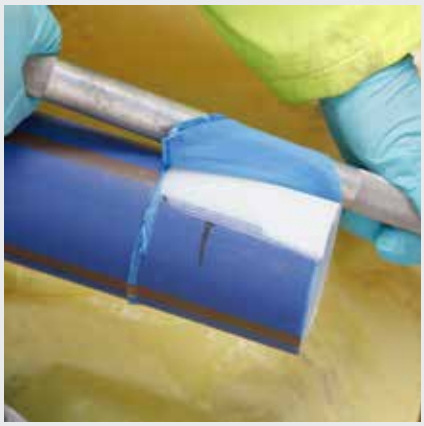
4. Cross hatch the area to be scraped plus an additional 20-50mm using the indelible marker pen.



5. Scrape one pipe end using a prescribed tool, for the length of the insertion depth plus 10-20mm. Ensure the whole surface area has been scraped.



6. For skinned pipe use the manufacturers' recommended tools to remove the skin. Some skinned pipe still requires a scraping operation but seek advice from the pipe manufacturer before preparing to join the pipe.



7. Open fitting bag, check the fitting is clean and immediately place over pipe end and push up to centre stops, or for fittings without centre stops insert the pipe to half the overall fitting length (mark this distance on the pipe prior to insertion). Leave bag over fitting for temporary protection.



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8. Prepare the second pipe in the same way as the first, as previously described.

9. Remove the bag and push the second pipe into the fitting. Mark the penetration depth on the pipe and tighten the restraining clamp.

10. Check fitting penetration - using previously marked lines on pipe. Visually check pipe alignment in all planes. Rotate the fitting to ensure no excessive forces are present.



N.B. Spigot fittings i.e. saddle outlets, spigot outlet on tees, stub flanges should be scraped and restrained as with pipes.

Important Note: It is imperative that both the pipe and fitting jointing surfaces are kept clean and dry during the assembly and welding process. This is best achieved by preparing the pipe and then immediately assembling.

In certain circumstances it is accepted procedure to use alcohol wipes to clean any contamination from the joint surfaces, however we recommend that this practice be only used where absolutely necessary.

Making the weld

1. Check generator has sufficient fuel.

2. Start the generator and then plug the control box input lead into the generator output socket. Connect the control box output leads to the fitting terminals - if automatic fittings and control box are being used, connect the red lead to the fitting terminal with the red pin, connect black lead to plain pin.



3. Check that the weld time marked on the fitting is displayed on the control box display. For manual fittings, check the weld time marked on the fitting and enter this figure into the control box. For 'barcode' fittings weld parameters are selected by scanning the barcode with the barcode scanner.

4. Respond to prompts from the box. Press 'START' and hold down until display begins countdown. The weld cycle is complete when the timer reaches zero and the control box 'CYCLE FINISH' indicator shows.



5. Allow weld to cool for the full time stated on fitting before removing clamps and moving the assembly.

Quality Checks

- Check for any error messages on the control box.
- Check fusion indicators have risen on both sides of the fitting.
- Check for signs of melt exudation from the ends of the fitting.
- Check that the pipe has not moved by looking at the insertion depth marks.

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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
- Some clamps which use hexagonal location pins will require a G tool adaptor to correctly centralise the Multiseal Tapping Tee.
- For underclamp saddles with bolted underpart (other than Multiseal with sacrificial underclamp) 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 seek advice from the pipe manufacturer 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.

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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.

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.



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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, serviced and calibrated as recommended by the equipment manufacturer.
- Ensure control box voltage is 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.
- Do not leave fittings out of protective bags.
- Do not use dirty fittings.
- Do not touch prepared pipe surfaces or fusion areas.
- Do not allow assemblies to get damp prior to joining.
- Do not touch fusion indicators during the welding cycle.
- Do not remove joint from clamps until the full cooling time has elapsed.
- Do not remove integral cutter from the saddle once the main has been drilled.
- Do not use control box in a trench with gaseous atmosphere.
- Never fuse a fitting 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.

DISCLAIMER
THE DATA PROVIDED IN THIS DOCUMENT IS NOT BINDING AND MAY BE SUBJECT TO MODIFICATIONS.
THIS DOCUMENT IS SUPPLIED AS A GUIDANCE ONLY. THE WELDING OPERATOR IS RESPONSIBLE FOR ENSURING ALL WORK IS PERFORMED EXCLUSIVELY BY TRAINED AND COMPETENT PERSONNEL AND IN COMPLIANCE WITH BOTH NATIONAL AND INTERNATIONAL RULES AND GUIDELINES FOR ELECTROFUSION INSTALLATION.

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. If this happens, 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.

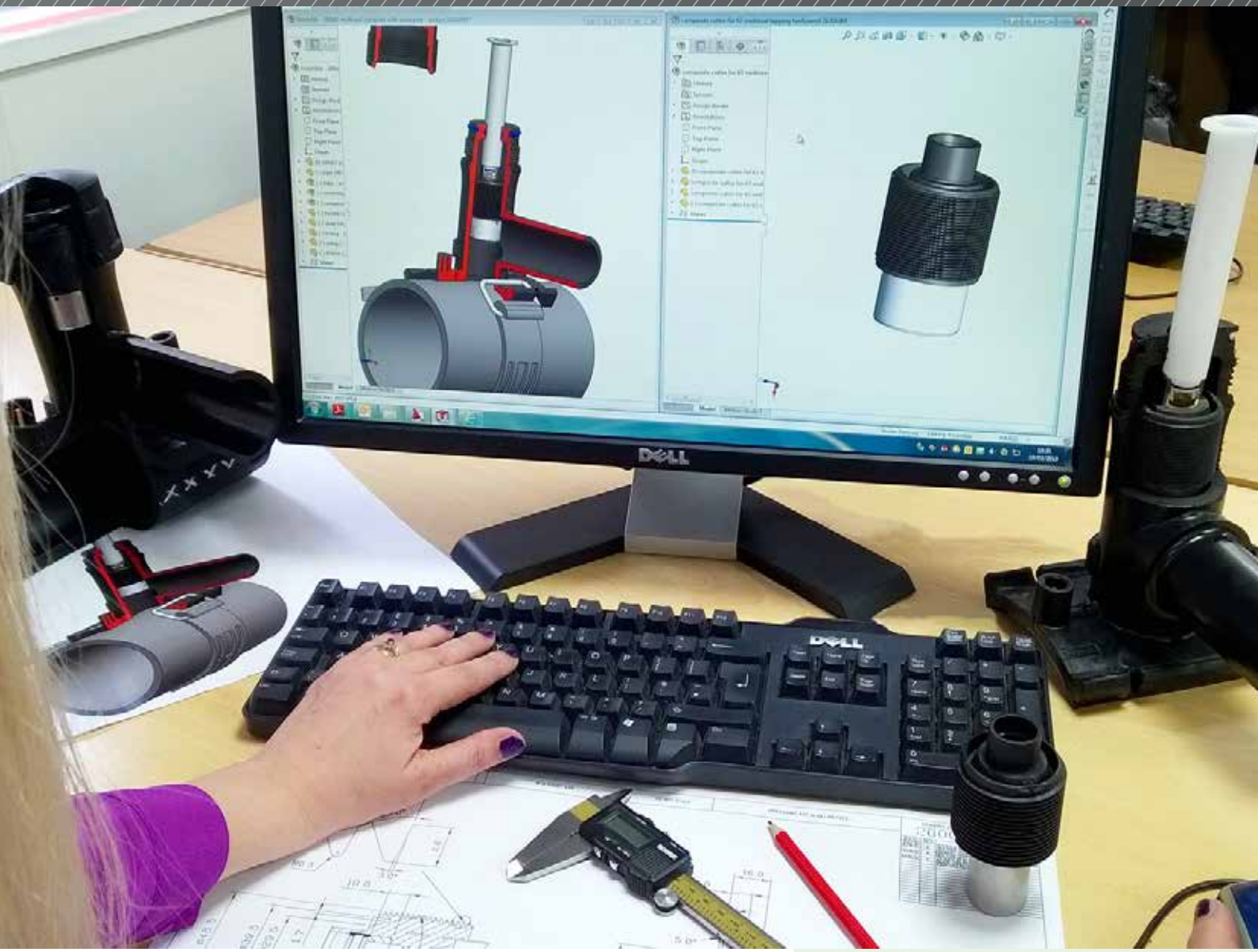
TRANSITION FROM PE PIPE TO OTHER PIPE AND FITTINGS

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).

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BIM AND CAD MODELS
2D AND 3D DRAWING DATA



Direct access to Fusion's BIM and CAD models at www.fusiongroup.com

Visit the Fusion Group website - **www.fusiongroup.com** for direct access to Fusion's BIM and CAD models, in .dxf, .igs and .step file formats. BIM and CAD models are available on Fusamatic electrofusion and spigot fittings range.

The models provide customers with the ability to transfer 2D and 3D drawing data between a variety of CAD and BIM infrastructure design systems.

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TYPICAL APPLICATION SCHEMATIC
EXAMPLE OF SOLUTIONS PACKAGE

New
Extended range of electrofusion elbows and tees

A



A NEW range of large diameter electrofusion elbows and equal tees
Sizes 200, 225 and 250mm | Elbows available in 90º and 45º
Pages 30 - 32

B



C



Electrofusion coupler
Sizes 20 - 630mm
Page 28

D



Large diameter branch saddle (LDBS)
Simple, safe and cost-effective live connections on water and gas networks
Sizes 250 - 630mm | 150, 200 and 250 NP16 outlet size
Page 42

E



Stub flange adaptor
Sizes 20 - 1200mm
Pages 107 - 115

F

Multiseal tapping tee
Delivering security, safety and speed at the point of installation
Stackload or underclamp
Sizes range from 40 – 400/450mm
20, 25, 32, 40, 50 and 63mm outlets
Pages 34 - 37

F

Flextee tapping tee
Provides a solution to the jointing of tapping tees to oval and coiled pipe
Understrap
Sizes 40 - 180mm
20, 25, and 32mm outlets
Page 38



Fusion Group are here to support you with a complete polyethylene solutions package for your gas and water infrastructure project.
For the full range visit
www.fusiongroup.com

G



Series 158 under pressure drilling valve - GAS
Clear bore construction valve for use in drilling operations on under pressure gas distribution systems.

G



Series 555 cast iron gate valve - GAS
Flanged gate valve for the isolation of natural and manufactured gas.

G



Series 21 resilient seated gate valve - WATER
Resilient seat, wedge gate valve for isolation purposes in water and sewage networks.

Product G: Compatible with Fusion's large diameter branch saddle (LDBS) range to facilitate underpressure drilling installations.

F

C

E

G

D



SBOX Max - Electrofusion
The SBOX Max electrofusion welding machine gives you functionality, reliability and is capable of welding electrofusion fittings for gas, water and other pressure pipe applications from 20 - 630mm
Pages 174 - 176



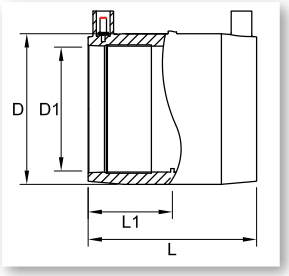
Gator - Automatic Butt Fusion
The Gator range of automatic butt fusion machines have been designed and developed to be used on gas and water pressure polyethylene pipes for distribution networks
Various options available to weld pipe in the size range 63 - 400mm
Pages 162 - 164

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Coupler

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d20-400





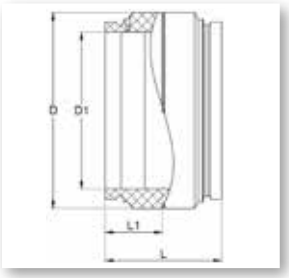
4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
CBKHFA20	20	77	37.5	29	20	35	3	0.04	100	295 X 485 X 199	A	6.77
CBKHFA25	25	77	37.5	33.5	25	30	3	0.04	100	295 X 485 X 199	A	6.70
CBKHFA32	32	77	37.5	43	32	45	3	0.06	80	295 X 485 X 199	A	7.60
CBKHFA40	40	91	44	51.5	40	40	5	0.09	100	295 X 485 X 333	A	8.57
CBKHFA50	50	91	44	61.5	50	90	5	0.10	70	295 X 485 X 333	A	9.09
CBKHFA63	63	102	50	78	63	35	3	0.16	30	295 X 485 X 199	A	9.73
CBKHFA75	75	122	59.5	92.5	75	50	5	0.27	45	295 X 485 X 424	A	11.54
CBKHFA90	90	122	60	109.5	90	90	10	0.36	30	295 X 485 X 424	A	18.75
CBKHFA110	110	144	70	133	110	160	10	0.57	14	295 X 485 X 333	A	23.39
CBKHFA125	125	154	75	151	125	200	10	0.79	12	295 X 485 X 333	A	27.13
CBKHFA140	140	181	89	176	140	160	10	1.12	6	290 X 480 X 324	A	41.76
CBKHFA160	160	175	86	195	160	300	20	1.41	4	232 X 453 X 387	A	43.44
CBKHFA180	180	187	92	219	180	360	20	1.92	4	232 X 453 X 387	A	52.91
CBKHFA200	200	187	92	242	200	440	20	2.31	4	295 X 485 X 424	B	63.22
CBKHFA225	225	222	108	270	225	600	30	3.65	2	300 X 595 X 235	A	125.36
CBKHFA250	250	222	108	300	250	900	30	4.64	2	305 X 610 X 240	A	148.09
CBKHFA280	280	260	130	345	280	900	30	8.93	1	285 X 395 X 400	A	227.90
CBKHFM315	315	260	130	385	315	1140	30	11.00	1	285 X 395 X 400	A	268.27
CBKHFM355	355	265	132.5	432	355	1200	30	13.80	1	290 X 470 X 435	A	329.13
CBKHFM400	400	290	145	486	400	1680	30	17.00	1	300 X 500 X 500	A	415.28

Large Diameter Coupler

Specification

- PE100
- FSN - SDR 11 - 26 - Water PN16 / Gas 10 Bar
- FSV - SDR 17 - 26 - Water PN10 / Gas 6 Bar
- d450-630 (d710-1200 available on request)

* Couplers greater than 500mm in diameter require two electrofusion cycles (dual shot), one for each end of the fitting.





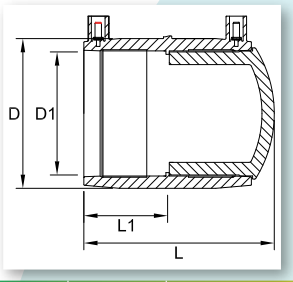
4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
CBKHFM450FSN	450	320	160	560	450	1380	30	21.00	1	570 X 570 X 335	C	1,154.66
CBKHFM450FSV	450	320	160	521	450	1380	30	15.00	1	530 X 530 X 335	C	909.44
CBKHFM500FSN	500	360	180	621	500	1800	30	33.00	1	635 X 635 X 375	C	1,469.10
CBKHFM500FSV	500	360	180	579	500	1800	30	20.00	1	590 X 590 X 370	C	1,063.64
CBKHFM560FSN	560	390	195	695	560	960 *	45	39.00	1	705 X 705 X 405	C	1,888.87
CBKHFM560FSV	560	390	195	639	560	960 *	45	26.00	1	655 X 655 X 405	C	1,594.77
CBKHFM630FSN	630	430	215	780	630	1620 *	45	53.00	1	790 X 790 X 445	C	2,644.18
CBKHFM630FSV	630	430	215	723	630	1380 *	45	35.00	1	735 X 735 X 445	C	2,113.06

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End Cap

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d20-250





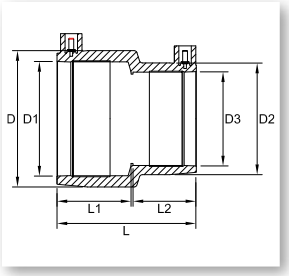
4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
ECBKHFA20	20	82	37.5	29	20	35	3	0.05	100	295 X 485 X 199	A	11.45
ECBKHFA25	25	82	37.5	33.5	25	30	3	0.05	100	295 X 485 X 199	A	11.83
ECBKHFA32	32	84	37.5	43	32	45	3	0.08	80	295 X 485 X 199	A	13.53
ECBKHFA40	40	97	44	51.5	40	40	5	0.118	100	295 X 485 X 333	C	15.47
ECBKHFA50	50	101	44	61.5	50	90	5	0.14	70	295 X 485 X 333	A	19.57
ECBKHFA63	63	115	50	78	63	35	3	0.24	30	295 X 485 X 199	A	15.16
ECBKHFA75	75	133	59.5	92.5	75	50	5	0.39	20	295 X 485 X 199	A	32.33
ECBKHFA90	90	138	60	109.5	90	90	10	0.54	24	295 X 485 X 333	A	38.36
ECBKHFA110	110	164	70	133	110	160	10	0.89	14	295 X 485 X 333	A	54.98
ECBKHFA125	125	175	75	151	125	200	10	1.22	10	295 X 485 X 333	A	60.55
ECBKHFA140	140	236	89	176	140	160	10	1.85	4	295 X 485 X 333	C	168.66
ECBKHFA160	160	202	86	195	160	300	20	2.24	4	232 X 453 X 387	A	107.49
ECBKHFA180	180	214	92	219	180	360	20	3.13	4	295 X 485 X 424	A	127.14
ECBKHFA200	200	215	92	242	200	440	20	4.02	4	295 X 485 X 424	A	161.16
ECBKHFA225	225	251.7	111	270	225	600	30	6.00	2	285 X 560 X 265	A	234.71
ECBKHFA250	250	259.5	111	303	250	900	30	7.73	2	305 X 610 X 285	A	250.64

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Reducer

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d25x20 - 180x125



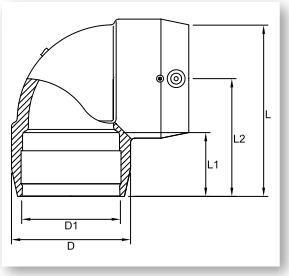


4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	L2	D2	D3	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
RBKHFA25X20	25 x 20	77	38.5	34	25	36.5	29	20	35	3	0.04	100	295 X 485 X 199	A	8.89
RBKHFA32X20	32 x 20	77	38.5	43	32	36.5	29	20	40	3	0.05	100	295 X 485 X 199	A	10.21
RBKHFA32X25	32 x 25	77	38.5	43	32	36.5	34	25	30	3	0.06	80	295 X 485 X 199	A	9.51
RBKHFA40X32	40 x 32	91	46	52	40	41	43	32	50	5	0.08	100	295 X 485 X 333	A	11.68
RBKHFA50X32	50 x 32	91	46.5	62	50	41	43	32	60	5	0.09	80	295 X 485 X 333	C	11.99
RBKHFA50X40	50 x 40	91	46.5	62	50	41	52	40	60	5	0.10	80	295 X 485 X 333	A	12.30
RBKHFA63X32	63 x 32	102	52	77	63	41	43	32	90	5	0.14	60	295 X 485 X 333	A	12.99
RBKHFA63X40	63 x 40	102	52	77	63	43	52	40	70	5	0.14	60	295 X 485 X 333	A	13.07
RBKHFA63X50	63 x 50	102	52	77	63	45.5	62	50	120	10	0.15	60	295 X 485 X 333	A	13.46
RBKHFA75X63	75 x 63	126	63	97	75	58.5	82	63	80	8	0.31	24	290 X 480 X 324	A	30.39
RBKHFA90X63	90 x 63	122.5	62	109.5	90	53	77	63	80	5	0.31	35	295 X 485 X 424	A	18.79
RBKHFA110X63	110 x 63	136.5	75	140	110	54	82	63	120	8	0.59	18	290 X 480 X 424	A	42.92
RBKHFA110X90	110 x 90	137.0	70	134	110	62	109.5	90	120	10	0.55	20	295 X 485 X 424	A	39.59
RBKHFA125X90	125 x 90	145	76	152	125	62	109.5	90	160	10	0.70	12	295 X 485 X 333	A	45.32
RBKHFA160X90	160 x 90	175	90	200	160	67	116	90	300	20	1.51	6	290 X 480 X 424	C	84.06
RBKHFA160X110	160 x 110	186	90	200	160	78	140	110	320	20	1.61	6	290 X 480 X 424	A	90.63
RBKHFA180X125	180 x 125	221	101	216	180	83	157	125	220	10	2.14	4	232 X 453 X 387	A	173.30

90º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d20-250





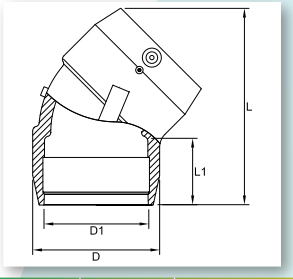
4mm Pin Fitting Code	Fitting Size	L	L1	L2	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
EBKHFA20X90	20 x 90deg	77	40	62	30	20	25	3	0.06	60	465 X 276 X 190	C	14.46
EBKHFA25X90	25 x 90deg	76	41	60	35	25	30	5	0.06	100	295 X 485 X 333	A	15.23
EBKHFA32X90	32 x 90deg	84	40	62	44	32	60	5	0.10	80	295 X 485 X 333	A	16.63
EBKHFA40X90	40 x 90deg	91	42	65	52	40	50	5	0.12	65	295 X 485 X 333	A	16.63
EBKHFA50X90	50 x 90deg	103	45	72	63	50	90	5	0.17	50	295 X 485 X 333	A	18.02
EBKHFA63X90	63 x 90deg	123	50	84	80	63	35	5	0.31	25	295 X 485 X 333	A	20.18
EBKHFA75X90	75 x 90deg	141	53	92	95	75	70	5	0.44	20	295 X 485 X 333	A	31.78
EBKHFA90X90	90 x 90deg	165	60	109	113	90	90	10	0.68	15	295 X 485 X 424	A	40.83
EBKHFA110X90	110 x 90deg	204	73	135	137	110	160	15	1.15	6	295 X 485 X 333	A	64.81
EBKHFA125X90	125 x 90deg	228	75	152	154	125	200	15	1.64	6	295 X 485 X 424	A	68.05
EBKHFA160X90	160 x 90deg	305	87	205	201	160	360	20	4.22	2	438 X 338 X 338	A	135.41
EBKHFA180X90	180 x 90deg	308	90	197	222	180	360	16	4.65	2	310 X 570 X 320	A	145.85
EBKHFA200X90	200 x 90deg	335	90	213	243	200	440	20	5.2	2	370 x 560 x 340	A	324.10
EBKHFA225X90	225 x 90deg	376	100	239	274	225	600	30	7.4	2	400 x 600 x 390	A	385.04
EBKHFA250X90	250x 90deg	409	115	257	304	250	900	30	9.7	1	440 x 340 x 460	A	441.11

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For more information visit our website www.fusiongroup.com

45º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d32-250



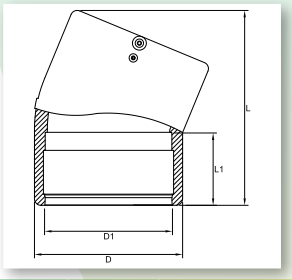


4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
EBKHFA32X45	32 x 45deg	99	39	44	32	45	5	0.08	100	295 X 485 X 333	A	16.47
EBKHFA40X45	40 x 45deg	108	41.5	53	40	50	5	0.10	70	295 X 485 X 333	A	16.47
EBKHFA50X45	50 x 45deg	124	44.5	64	50	90	5	0.14	50	295 X 485 X 333	A	17.25
EBKHFA63X45	63 x 45deg	137	50	78.5	63	35	5	0.23	30	295 X 485 X 333	A	18.25
EBKHFA75X45	75 x 45deg	165	54	94	75	70	5	0.35	20	295 X 485 X 333	A	28.61
EBKHFA90X45	90 x 45deg	177	60	117	90	110	10	0.55	18	295 X 485 X 424	A	39.90
EBKHFA110X45	110 x 45deg	213	75	137	110	140	10	0.93	10	295 X 485 X 424	A	45.47
EBKHFA125X45	125 x 45deg	240	81	154	125	140	10	1.25	6	295 X 485 X 424	A	57.30
EBKHFA160X45	160 x 45deg	283	89	201	160	360	20	2.64	4	290 X 480 X 424	A	100.22
EBKHFA180X45	180 x 45deg	299	90	222	180	360	16	3.25	2	290 X 470 X 305	A	116.15
EBKHFA200X45	200 x 45deg	350	90	243	200	440	20	4.1	2	370 x 560 x 340	A	303.61
EBKHFA225X45	225 x 45deg	377	100	274	225	600	30	5.6	2	400 x 600 x 390	A	358.44
EBKHFA250X45	250 x 45deg	421	115	304	250	900	30	7.1	1	440 x 340 x 460	A	400.05

22.5º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d180





4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
EBKHFA180X22.5	180 x 22.5deg	278	105	213	180	220	20	2.89	2	295 X 485 X 333	A	250.71

New Extended range of electrofusion elbows

NEW range of large diameter electrofusion elbows

Sizes 200, 225 and 250mm
Elbows available in 90º and 45º



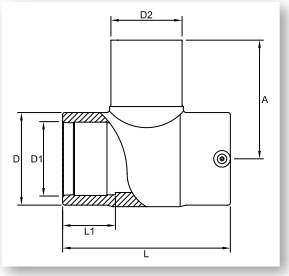


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For more information visit our website www.fusiongroup.com

Equal Tee

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d20 - 250





4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	D2	A	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
ETBKHFA20	20 x 20 x 20	98	30	30	20	20	86	25	3	0.06	40	465 X 276 X 190	C	11.67
ETBKHFA25	25 x 25 x 25	98	30	35	25	25	88.5	25	3	0.13	35	465 X 276 X 190	B	12.15
ETBKHFA32	32 x 32 x 32	98	30	44	32	32	93	50	3	0.11	30	465 X 276 X 190	A	13.24
ETBKHFA40	40 x 40 x 40	131	44	52	40	40	91	50	5	0.16	18	465 X 276 X 190	A	16.04
ETBKHFA50	50 x 50 x 50	141	43	63	50	50	104	90	5	0.23	25	290 X 480 X 324	A	19.65
ETBKHFA63	63 x 63 x 63	156	50	82	63	63	114	40	5	0.45	20	290 X 480 X 424	A	19.38
ETBKHFA75	75 x 75 x 75	174	55	100	75	75	134	50	6	0.65	12	290 X 480 X 424	C	31.12
ETBKHFA90	90 x 90 x 90	206.5	64	115	90	90	143	110	8	0.97	10	290 X 480 X 424	A	32.55
ETBKHFA110	110 x 110 x 110	239	73	139	110	110	157	140	10	1.68	6	290 X 480 X 424	A	57.73
ETBKHFA125	125 x 125 x 125	264	80	156	125	125	182	200	15	2.31	4	310 X 570 X 320	C	71.65
ETBKHFA160	160 x 160 x 160	313	89	200	160	160	211	360	20	4.06	2	330 X 430 X 330	A	118.66
ETBKHFA180	180 x 180 x 180	334	90	222	180	180	232	360	20	5.35	2	330 X 430 X 360	C	137.36
ETBKHFA200	200 x 200 x 200	358	90	242	200	200	260	440	20	7.3	1	400 x 280 x 400	A	347.03
ETBKHFA225	225 x 225 x 225	406	105	271	225	225	285	600	30	9.4	1	420 x 310 x 440	A	403.87
ETBKHFA250	250 x 250 x 250	448	105	303	250	250	314	900	30	14.1	1	470 x 340 x 490	A	453.04

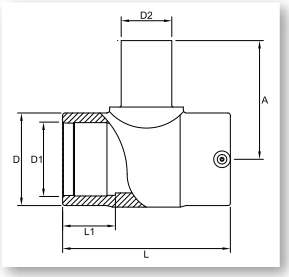
Reducing Tee

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d20x20x32 - 180x180x125

*Fabricated design - manufactured using electrofusion and spigot components, certified against European Norms.

*Fabricated fitting - 'A' height dimension may vary subject to component availability.





4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	D2	A	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
RTBKHFA20X32	20 x 20 x 32	98	35	44	20	32	88	30	3	0.13	50	295 X 485 X 333	C	33.71
RTBKHFA25X32	25 x 25 x 32	98	35	44	25	32	88	35	3	0.13	50	295 X 485 X 333	C	30.98
RTBKHFA50X40	50 x 50 x 40	146	49	67	50	40	100	120	10	0.30	24	290 X 480 X 324	A	58.96
RTBKHFA63X32	63 x 63 x 32	156	50	82	63	32	104	40	5	0.40	24	290 X 480 X 324	C	18.08
RTBKHFA63X40	63 x 63 x 40	156	50	82	63	40	105.5	40	5	0.41	24	290 X 480 X 324	A	18.56
RTBKHFA63X50	63 x 63 x 50	156	50	82	63	50	111.5	40	5	0.42	26	290 X 480 X 424	C	18.42
RTBKHFA90X63	90 x 90 x 63	206	63.5	115	90	63	135	110	8	0.88	12	290 X 480 X 424	A	30.57
RTBKHFA110X63	110 x 110 x 63	239	73	142	110	63	147	140	10	1.47	8	290 X 480 X 424	A	53.36
RTBKHFA110X90	110 x 110 x 90	239	73	139	110	90	162	140	10	1.55	6	290 X 480 X 424	A	55.95
RTBKHFA125X63*	125 x 125 x 63	266	80	156	125	63	365	200	15	2.90	3	310 X 600 X 500	A	263.25
RTBKHFA125X90	125 x 125 x 90	264	80	156	125	90	179	200	15	2.28	4	310 X 570 X 320	A	72.60
RTBKHFA125X110*	125 x 125 x 110	262	80	156	125	110	365	200	15	3.05	3	290 X 480 X 415	C	313.06
RTBKHFA160X63*	160 x 160 x 63	365	89	200	160	63	630	360	20	5.60	1	227 X 448 X 640	C	479.56
RTBKHFA160X90*	160 x 160 x 90	365	89	200	160	90	450	360	20	5.30	1	227 X 448 X 460	A	368.33
RTBKHFA160X110	160 x 160 x 110	313	89	200	160	110	229	360	20	3.77	2	330 X 430 X 330	A	117.84
RTBKHFA160X125*	160 x 160 x 125	365	89	200	160	125	450	360	20	5.50	1	227 X 448 X 460	C	422.85
RTBKHFA180X63*	180 x 180 x 63	TBC	90	222	180	63	450	360	20	7.10	1	227 X 448 X 640	C	657.38
RTBKHFA180X90*	180 x 180 x 90	TBC	90	222	180	90	460	360	20	6.80	1	227 X 448 X 460	C	508.15
RTBKHFA180X125	180 x 180 x 125	334	90	222	180	125	222	360	20	4.85	2	330 X 430 X 360	C	139.68

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Flanged Tee

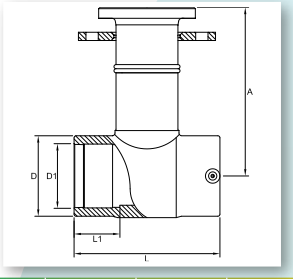
Specification

- PE100
- Water PN16
- Gas 10 Bar
- d63xDN50 - d180xDN150

All fittings are manufactured using electrofusion and spigot components, certified against European Norms.

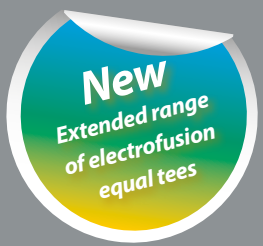
Fabricated fitting - 'A' height dimension may vary subject to component availability.

For specific markets specialist Rilsan backing rings are available - please confirm at time of ordering.





4mm Pin Fitting Code	Fitting Size	L	L1	D	D1	D2	A	Fusion Time	Cooling Time	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	secs	mins	Kg			£ GBP
FTBKHFA63X50	63 x 50	156	50	82	63	63	251	40	5	2.50	1	C	POA
FTBKHFA90X80	90 x 80	206	64	115	90	90	307	110	8	3.00	1	C	POA
FTBKHFA110X100	110 x 100	239	73	139	110	110	353	140	10	3.20	1	C	POA
FTBKHFA125X80	125 x 80	264	80	156	125	90	526	200	15	3.50	1	C	POA
FTBKHFA125X100	125 x 100	264	80	156	125	110	353	200	15	4.00	1	C	POA
FTBKHFA160X150	160 x 150	313	89	200	160	160	436	360	20	8.20	1	C	POA
FTBKHFA180X80	180 x 80	330	90	222	180	90	766	360	20	10.50	1	C	POA
FTBKHFA180X100	180 x 100	330	90	222	180	125	575	360	20	9.85	1	C	POA
FTBKHFA180X150	180 x 150	330	90	222	180	180	436	360	20	9.85	1	C	POA



NEW range of large diameter equal tees

Sizes 200, 225 and 250mm

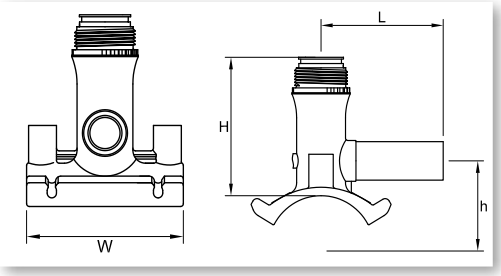


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Multiseal Tapping Tee | Stackload
20-32mm outlet

Specification

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





4mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MTBKHFA63X20	63 x 20	105	119	62	120	80	10	0.38	15	295 X 485 X 333	C	44.72
MTBKHFA63X25	63 x 25	105	119	62	120	80	10	0.38	15	295 X 485 X 333	C	44.60
MTBKHFA63X32	63 x 32	105	119	62	120	80	10	0.38	15	295 X 485 X 333	A	44.27
MTBKHFA75X20	75 x 20	105	110	77	120	90	10	0.46	15	295 X 485 X 333	C	49.88
MTBKHFA75X25	75 x 25	105	110	77	120	90	10	0.46	15	295 X 485 X 333	C	46.34
MTBKHFA75X32	75 x 32	105	110	77	120	90	10	0.48	15	295 X 485 X 333	C	46.40
MTBKHFA90X20	90 x 20	105	110	77	120	90	10	0.38	15	295 X 485 X 333	C	47.30
MTBKHFA90X25	90 x 25	105	110	77	120	90	10	0.40	15	295 X 485 X 333	C	45.37
MTBKHFA90X32	90 x 32	105	110	77	120	90	10	0.40	15	295 X 485 X 333	A	45.37
MTBKHFA110X20	110 x 20	105	117	87	120	80	10	0.39	15	295 X 485 X 333	C	63.09
MTBKHFA110X25	110 x 25	105	117	87	120	80	10	0.386	15	295 X 485 X 333	C	55.16
MTBKHFA110X32	110 x 32	105	117	87	120	80	10	0.38	15	295 X 485 X 333	B	44.60
MTBKHFA125X20	125 x 20	105	117	95	120	80	10	0.31	15	295 X 485 X 333	C	61.48
MTBKHFA125X25	125 x 25	105	117	95	120	80	10	0.39	15	295 X 485 X 333	C	61.48
MTBKHFA125X32	125 x 32	105	117	95	120	80	10	0.39	15	295 X 485 X 333	A	44.60
MTBKHFA160X20	160 x 20	105	122	112	120	100	10	0.32	15	295 X 485 X 333	C	59.93
MTBKHFA160X25	160 x 25	105	122	112	120	100	10	0.32	15	295 X 485 X 333	C	46.14
MTBKHFA160X32	160 x 32	105	122	112	120	100	10	0.41	15	295 X 485 X 333	C	46.08
MTBKHFA180X20	180 x 20	105	122	122	120	100	10	0.35	15	295 X 485 X 333	C	63.86
MTBKHFA180X25	180 x 25	105	122	122	120	100	10	0.41	15	295 X 485 X 333	C	46.79
MTBKHFA180X32	180 x 32	105	122	122	120	100	10	0.41	15	295 X 485 X 333	A	46.27
MTBKHFA200X20	200 x 20	105	122	132	120	100	10	0.30	15	295 X 485 X 333	C	67.02
MTBKHFA200X25	200 x 25	105	122	132	120	100	10	0.32	15	295 X 485 X 333	C	46.27
MTBKHFA200X32	200 x 32	105	122	132	120	100	10	0.38	15	295 X 485 X 333	C	45.69
MTBKHFA225X20	225 x 20	105	122	145	120	100	10	0.32	15	295 X 485 X 333	C	51.30
MTBKHFA225X25	225 x 25	105	122	145	120	100	10	0.41	15	295 X 485 X 333	C	47.75
MTBKHFA225X32	225 x 32	105	122	145	120	100	10	0.40	15	295 X 485 X 333	C	47.50
MTBKHFA250X20	250 x 20	105	122	158	120	100	10	0.37	15	295 X 485 X 333	C	51.23
MTBKHFA250X25	250 x 25	105	122	158	120	100	10	0.37	15	295 X 485 X 333	C	51.50
MTBKHFA250X32	250 x 32	105	122	158	120	100	10	0.37	15	295 X 485 X 333	A	50.65
MTBKHFA280X20	280 x 20	105	122	176	120	100	10	0.43	15	295 X 485 X 333	C	50.33
MTBKHFA280X25	280 x 25	105	122	176	120	100	10	0.43	15	295 X 485 X 333	C	61.48
MTBKHFA280X32	280 x 32	105	122	176	120	100	10	0.43	15	295 X 485 X 333	C	49.82
MTBKHFA315X20	315 x 20	105	122	194	120	100	10	0.41	15	295 X 485 X 333	C	63.09
MTBKHFA315X25	315 x 25	105	122	194	120	100	10	0.41	15	295 X 485 X 333	C	72.56
MTBKHFA315X32	315 x 32	105	122	194	120	100	10	0.41	15	295 X 485 X 333	C	49.82
MTBKHFA355X20	355 x 20	105	122	214	120	100	10	0.40	15	295 X 485 X 333	C	63.09
MTBKHFA355X25	355 x 25	105	122	214	120	100	10	0.40	15	295 X 485 X 333	C	63.09
MTBKHFA355X32	355 x 32	105	122	214	120	100	10	0.40	15	295 X 485 X 333	C	57.29

Optional Cutter Tube

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHFA63X32T.

The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.

See page 17 for further details.

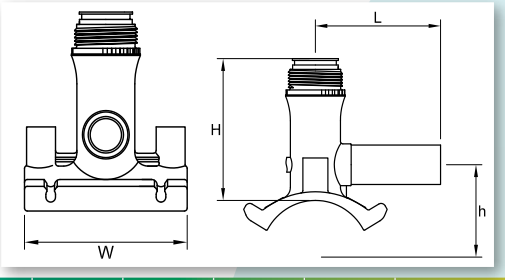


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For more information visit our website www.fusiongroup.com

Multiseal Tapping Tee I Stackload
63mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- For UK Gas applications (size restrictions apply):
  - Gas 5.5 Bar (Class B)
  - Gas 7 Bar (Class C)
- d250x63 - 400/450x63
- 40 and 50mm Outlet available upon request





4mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MTBKHFA250X63	250 x 63	165	183	182	146	110	10	0.87	10	295 X 485 X 333	C	116.00
MTBKHFA280X63	280 x 63	165	184	196	146	120	10	0.86	10	295 X 485 X 333	C	117.10
MTBKHFA315X63	315 x 63	165	187	217	146	120	10	0.89	10	295 X 485 X 333	C	116.13
MTBKHFA355X63	355 x 63	165	187	238	146	120	10	0.91	10	295 X 485 X 333	C	123.09
MTKHFA400450X63T	400/450 x 63	165	185	258 / 283	146	120	15	0.94	10	295 X 485 X 333	C	177.42



Optional Cutter Tube

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHFA250X63T.

The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.

See page 17 for further details.

Please note the NEW 400/450 Multiseal comes complete with Tube.



Multiseal Tapping Tee I Stackload
NEW size - 400/450 x 63mm outlet

- For use on pipes up to SDR11.
- One electrofusion fitting fits both 400 and 450mm mains pipe resulting in reduced stockholding.
- Larger base footprint ensures correct alignment.
- Can be used with existing top-load clamping equipment reducing the need for expensive additional tooling or clamps.

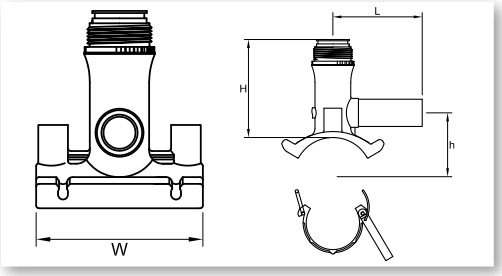
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For more information visit our website www.fusiongroup.com

Multiseal Tapping Tee I Underclamp
20-32mm outlet

Specification

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

Please Note: Different underclamp system than pictured on sizes 40 x 20, 25, 32 and 50 x 20, 25, 32 that requires a screwdriver for installation.





4mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MTBKHFA40X20U	40 x 20	105	110	50	120	40	3	0.38	10	295 X 485 X 199	C	59.29
MTBKHFA40X25U	40 x 25	105	110	50	120	40	3	0.38	10	295 X 485 X 199	C	59.55
MTBKHFA40X32U	40 x 32	105	110	50	120	40	3	0.38	10	295 X 485 X 199	C	59.55
MTBKHFA50X20U	50 x 20	105	110	50	120	40	3	0.38	10	295 X 485 X 199	C	59.93
MTBKHFA50X25U	50 x 25	105	110	50	120	40	3	0.38	10	295 X 485 X 199	C	78.88
MTBKHFA50X32U	50 x 32	105	110	50	120	40	3	0.40	10	295 X 485 X 199	A	78.17
MTBKHFA63X20U	63 x 20	105	119	62	120	80	10	0.52	10	295 X 485 X 199	C	51.23
MTBKHFA63X25U	63 x 25	105	119	62	120	80	10	0.54	10	295 X 485 X 199	A	51.23
MTBKHFA63X32U	63 x 32	105	119	62	120	80	10	0.54	10	295 X 485 X 199	A	51.30
MTBKHFA75X20U	75 x 20	105	110	77	120	90	10	0.68	10	295 X 485 X 333	C	57.10
MTBKHFA75X25U	75 x 25	105	110	77	120	90	10	0.68	10	295 X 485 X 333	C	53.10
MTBKHFA75X32U	75 x 32	105	110	77	120	90	10	0.68	10	295 X 485 X 333	B	53.17
MTBKHFA90X20U	90 x 20	105	110	77	120	90	10	0.61	10	295 X 485 X 333	C	53.17
MTBKHFA90X25U	90 x 25	105	110	77	120	90	10	0.61	10	295 X 485 X 333	A	53.42
MTBKHFA90X32U	90 x 32	105	110	77	120	90	10	0.61	10	295 X 485 X 333	A	53.42
MTBKHFA110X20U	110 x 20	105	117	87	120	80	10	0.64	10	295 X 485 X 333	C	58.90
MTBKHFA110X25U	110 x 25	105	117	87	120	80	10	0.64	10	295 X 485 X 333	A	58.90
MTBKHFA110X32U	110 x 32	105	117	87	120	80	10	0.64	10	295 X 485 X 333	A	58.97
MTBKHFA125X20U	125 x 20	105	117	95	120	80	10	0.65	10	295 X 485 X 333	C	61.48
MTBKHFA125X25U	125 x 25	105	117	95	120	80	10	0.66	10	295 X 485 X 333	A	65.60
MTBKHFA125X32U	125 x 32	105	117	95	120	80	10	0.65	10	295 X 485 X 333	A	59.48
MTBKHFA160X20U	160 x 20	105	122	112	120	100	10	0.73	10	295 X 485 X 333	C	60.26
MTBKHFA160X25U	160 x 25	105	122	112	120	100	10	0.73	10	295 X 485 X 333	A	60.00
MTBKHFA160X32U	160 x 32	105	122	112	120	100	10	0.73	10	295 X 485 X 333	A	60.32
MTBKHFA180X20U	180 x 20	105	122	122	120	100	10	0.75	10	295 X 485 X 333	C	64.38
MTBKHFA180X25U	180 x 25	105	122	122	120	100	10	0.75	10	295 X 485 X 333	A	64.12
MTBKHFA180X32U	180 x 32	105	122	122	120	100	10	0.73	10	295 X 485 X 333	A	63.67
MTBKHFA200X20U	200 x 20	105	122	132	120	100	10	0.73	10	295 X 485 X 333	C	67.28
MTBKHFA200X25U	200 x 25	105	122	132	120	100	10	0.73	10	295 X 485 X 333	C	67.02
MTBKHFA200X32U	200 x 32	105	122	132	120	100	10	0.73	10	295 X 485 X 333	B	66.89
MTBKHFA225X20U	225 x 20	105	122	145	120	100	10	0.76	10	295 X 485 X 424	C	75.27
MTBKHFA225X25U	225 x 25	105	122	145	120	100	10	0.78	10	295 X 485 X 424	A	71.15
MTBKHFA225X32U	225 x 32	105	122	145	120	100	10	0.78	10	295 X 485 X 424	A	71.40

Optional Cutter Tube

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHFA63X32UT.

The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.

See page 17 for further details.

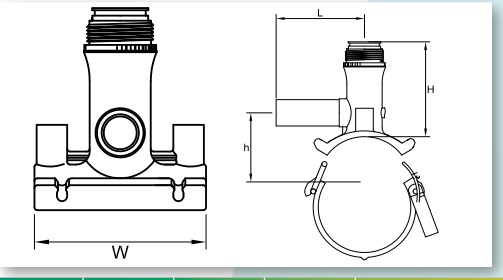


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Multiseal Tapping Tee | Underclamp
40 - 63mm outlet

Specification

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





4mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MTBKHFA63X40U	63 x 40	165	155	59.5	146	100	10	0.95	5	295 X 485 X 333	C	115.61
MTBKHFA63X50U	63 x 50	165	155	59.5	146	100	10	0.96	5	295 X 485 X 333	C	116.13
MTBKHFA63X63U	63 x 63	165	155	59.5	146	100	10	1.02	5	295 X 485 X 333	A	116.52
MTBKHFA75X40U	75 x 40	165	152	57	146	120	10	1.07	5	295 X 485 X 333	C	121.99
MTBKHFA75X50U	75 x 50	165	152	57	146	120	10	1.10	5	295 X 485 X 333	C	122.32
MTBKHFA75X63U	75 x 63	165	152	57	146	120	10	1.15	5	295 X 485 X 333	C	122.32
MTBKHFA90X40U	90 x 40	165	152	57	146	100	10	1.10	5	295 X 485 X 333	A	117.03
MTBKHFA90X50U	90 x 50	165	152	57	146	100	10	1.10	5	295 X 485 X 333	C	117.16
MTBKHFA90X63U	90 x 63	165	152	57	146	100	10	1.12	5	295 X 485 X 333	A	117.87
MTBKHFA110X40U	110 x 40	165	176	105	146	100	10	1.07	5	295 X 485 X 333	A	121.41
MTBKHFA110X50U	110 x 50	165	176	105	146	100	10	1.10	5	295 X 485 X 333	B	121.67
MTBKHFA110X63U	110 x 63	165	176	105	146	100	10	1.15	5	295 X 485 X 333	A	122.32
MTBKHFA125X40U	125 x 40	165	178	112	146	100	10	1.08	5	295 X 485 X 333	C	123.22
MTBKHFA125X50U	125 x 50	165	178	112	146	100	10	1.10	5	295 X 485 X 333	C	123.86
MTBKHFA125X63U	125 x 63	165	178	112	146	100	10	1.15	5	295 X 485 X 333	A	123.93
MTBKHFA160X40U	160 x 40	165	182	137	146	100	10	1.13	5	295 X 485 X 333	C	131.21
MTBKHFA160X50U	160 x 50	165	182	137	146	100	10	1.14	5	295 X 485 X 333	C	131.53
MTBKHFA160X63U	160 x 63	165	182	137	146	100	10	1.19	5	295 X 485 X 333	A	131.98
MTBKHFA180X40U	180 x 40	165	183	147	146	100	10	1.15	5	295 X 485 X 333	C	131.53
MTBKHFA180X50U	180 x 50	165	183	147	146	100	10	1.17	5	295 X 485 X 333	C	132.37
MTBKHFA180X63U	180 x 63	165	183	147	146	100	10	1.21	5	295 X 485 X 333	A	132.37
MTBKHFA200X40U	200 x 40	165	183	157	146	100	10	1.12	5	295 X 485 X 333	C	139.20
MTBKHFA200X50U	200 x 50	165	183	157	146	100	10	1.17	5	295 X 485 X 333	C	141.13
MTBKHFA200X63U	200 x 63	165	183	157	146	100	10	1.21	5	295 X 485 X 333	C	140.17
MTBKHFA225X40U	225 x 40	165	183	169	146	100	10	1.15	5	295 X 485 X 333	C	139.20
MTBKHFA225X50U	225 x 50	165	183	169	146	100	10	1.19	5	295 X 485 X 333	B	140.81
MTBKHFA225X63U	225 x 63	165	183	169	146	100	10	1.24	5	295 X 485 X 333	C	139.14



Optional Cutter Tube

To order Multiseal with the optional cutter tube simply add 'T' to the fitting code e.g. MTBKHFA225X40UT.

The tube works in conjunction with an internal O-ring seal in the body of the fitting to deliver safe live connections.

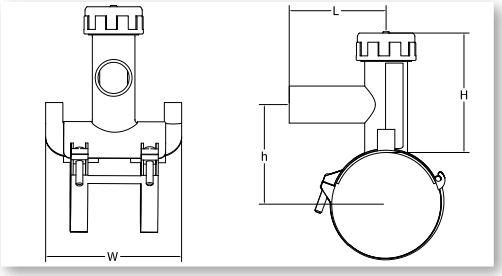
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Flextee Tapping Tee I Understrap
20 - 32mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d40x20 - 180x32



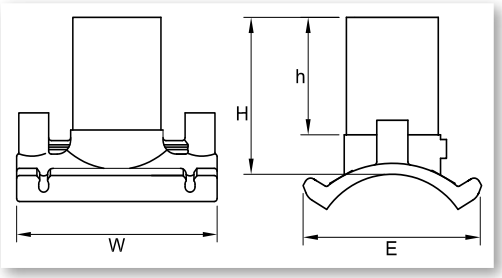


4mm Pin Fitting Code	Fitting Size	L	H	h	W	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
FLTBKHFA40X20U	40 x 20	83	100	45.5	112	45	5	0.17	10	295 X 485 X 200	C	34.35
FLTBKHFA40X25U	40 x 25	83	100	45.5	112	45	5	0.17	10	295 X 485 X 200	C	34.55
FLTBKHFA40X32U	40 x 32	83	100	45.5	112	45	5	0.17	10	295 X 485 X 200	C	34.75
FLTBKHFA50X20U	50 x 20	83	100	51.5	112	45	5	0.19	10	295 X 485 X 200	C	34.95
FLTBKHFA50X25U	50 x 25	83	100	51.5	112	45	5	0.19	10	295 X 485 X 200	C	35.15
FLTBKHFA50X32U	50 x 32	83	100	51.5	112	45	5	0.19	10	295 X 485 X 200	C	35.35
FLTBKHFA63X20U	63 x 20	82	100	59.5	119	110	10	0.23	10	295 X 485 X 200	C	35.55
FLTBKHFA63X25U	63 x 25	82	100	59.5	119	110	10	0.23	10	295 X 485 X 200	C	35.75
FLTBKHFA63X32U	63 x 32	82	100	59.5	119	110	10	0.23	10	295 X 485 X 200	C	35.95
FLTBKHFA75X20U	75 x 20	82	100	65.5	119	110	10	0.23	10	295 X 485 X 200	C	36.15
FLTBKHFA75X25U	75 x 25	82	100	65.5	119	110	10	0.23	10	295 X 485 X 200	C	36.35
FLTBKHFA75X32U	75 x 32	82	100	65.5	119	110	10	0.23	10	295 X 485 X 200	C	36.55
FLTBKHFA90X20U	90 x 20	82	100	73	119	110	10	0.24	10	295 X 485 X 200	C	36.75
FLTBKHFA90X25U	90 x 25	82	100	73	119	110	10	0.24	10	295 X 485 X 200	C	36.95
FLTBKHFA90X32U	90 x 32	82	100	73	119	110	10	0.24	10	295 X 485 X 200	C	37.15
FLTBKHFA110X20U	110 x 20	92	100	83	119	120	10	0.24	10	295 X 485 X 200	C	37.35
FLTBKHFA110X25U	110 x 25	92	100	83	119	120	10	0.24	10	295 X 485 X 200	B	37.55
FLTBKHFA110X32U	110 x 32	92	100	83	119	120	10	0.24	10	295 X 485 X 200	C	37.75
FLTBKHFA125X20U	125 x 20	92	100	90.5	119	120	10	0.25	10	295 X 485 X 200	C	37.95
FLTBKHFA125X25U	125 x 25	92	100	90.5	119	120	10	0.25	10	295 X 485 X 200	C	38.15
FLTBKHFA125X32U	125 x 32	92	100	90.5	119	120	10	0.25	10	295 X 485 X 200	A	38.35
FLTBKHFA160X20U	160 x 20	92	100	108	119	140	10	0.27	5	295 X 485 X 200	C	38.55
FLTBKHFA160X25U	160 x 25	92	100	108	119	140	10	0.27	5	295 X 485 X 200	C	38.75
FLTBKHFA160X32U	160 x 32	92	100	108	119	140	10	0.27	5	295 X 485 X 200	A	38.95
FLTBKHFA180X20U	180 x 20	92	100	118	119	140	10	0.28	5	295 X 485 X 200	C	39.15
FLTBKHFA180X25U	180 x 25	92	100	118	119	140	10	0.28	5	295 X 485 X 200	C	39.35
FLTBKHFA180X32U	180 x 32	92	100	118	119	140	10	0.28	5	295 X 485 X 200	C	39.55

Branch Saddle I Stackload
63mm outlet

Specification

- PE100
- Water PN 16
- Gas 10 Bar
- d250x63 - 400/450x63





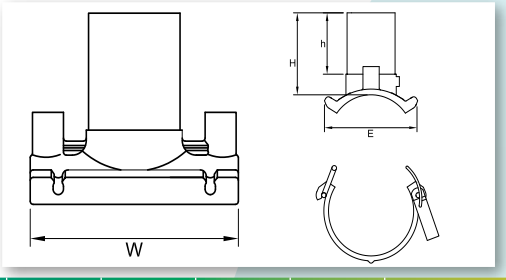
4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MBBKHFA250X63	250 x 63	125	75	146	122	110	10	0.36	15	295 X 485 X 333	C	71.21
MBBKHFA280X63	280 x 63	140	75	146	122	120	10	0.35	15	295 X 485 X 333	C	72.95
MBBKHFA315X63	315 x 63	140	75	146	122	120	10	0.38	15	295 X 485 X 333	C	73.40
MBBKHFA355X63	355 x 63	140	75	146	122	120	10	0.38	15	295 X 485 X 333	C	73.40
MBKHFA400450X63	400/450 x 63	146	72	146	152	120	15	0.40	10	295 X 485 X 333	C	118.26

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Branch Saddle I Underclamp
40 - 63mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d63x40 - 225x63





4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
MBBKHFA63X40U	63 x 40	115	75	147	119	100	10	0.47	10	295 X 485 X 333	C	69.34
MBBKHFA63X50U	63 x 50	115	75	147	119	100	10	0.48	10	295 X 485 X 333	C	69.54
MBBKHFA63X63U	63 x 63	115	75	147	119	100	10	0.50	10	295 X 485 X 333	C	69.79
MBBKHFA75X40U	75 x 40	115	75	147	119	120	10	0.62	10	295 X 485 X 333	C	77.98
MBBKHFA75X50U	75 x 50	115	75	147	119	120	10	0.64	10	295 X 485 X 333	C	62.45
MBBKHFA75X63U	75 x 63	115	75	147	119	120	10	0.65	10	295 X 485 X 333	C	62.70
MBBKHFA90X40U	90 x 40	115	75	147	122	100	10	0.58	10	295 X 485 X 333	C	73.02
MBBKHFA90X50U	90 x 50	115	75	147	122	100	10	0.60	10	295 X 485 X 333	C	73.40
MBBKHFA90X63U	90 x 63	115	75	147	122	100	10	0.63	10	295 X 485 X 333	C	73.60
MBBKHFA110X40U	110 x 40	118	75	147	122	100	10	0.62	10	295 X 485 X 333	C	78.17
MBBKHFA110X50U	110 x 50	118	75	147	122	100	10	0.63	10	295 X 485 X 333	C	77.78
MBBKHFA110X63U	110 x 63	118	75	147	122	100	10	0.64	10	295 X 485 X 333	C	78.36
MBBKHFA125X40U	125 x 40	118	75	147	122	100	10	0.62	10	295 X 485 X 333	C	79.98
MBBKHFA125X50U	125 x 50	118	75	147	122	100	10	0.62	10	295 X 485 X 333	C	79.85
MBBKHFA125X63U	125 x 63	118	75	147	122	100	10	0.64	10	295 X 485 X 333	A	80.17
MBBKHFA160X40U	160 x 40	125	75	147	122	100	10	0.66	10	295 X 485 X 333	C	88.80
MBBKHFA160X50U	160 x 50	125	75	147	122	100	10	0.66	10	295 X 485 X 333	C	88.93
MBBKHFA160X63U	160 x 63	125	75	147	122	100	10	0.68	10	295 X 485 X 333	A	89.06
MBBKHFA180X40U	180 x 40	125	75	147	122	100	10	0.70	10	295 X 485 X 333	C	88.93
MBBKHFA180X50U	180 x 50	125	75	147	122	100	10	0.70	10	295 X 485 X 333	C	88.93
MBBKHFA180X63U	180 x 63	125	75	147	122	100	10	0.70	10	295 X 485 X 333	C	89.51
MBBKHFA200X40U	200 x 40	125	75	147	122	100	10	0.70	10	295 X 485 X 424	C	97.70
MBBKHFA200X50U	200 x 50	125	75	147	122	100	10	0.70	10	295 X 485 X 424	C	97.96
MBBKHFA200X63U	200 x 63	125	75	147	122	100	10	0.70	10	295 X 485 X 424	A	98.02
MBBKHFA225X40U	225 x 40	125	75	147	122	100	10	0.73	10	295 X 485 X 424	C	96.15
MBBKHFA225X50U	225 x 50	125	75	147	122	100	10	0.71	10	295 X 485 X 424	C	96.09
MBBKHFA225X63U	225 x 63	125	75	147	122	100	10	0.75	10	295 X 485 X 424	A	96.41

New
400/450 size with 63mm outlet



Branch Saddle I Stackload
NEW size - 400/450 x 63mm outlet

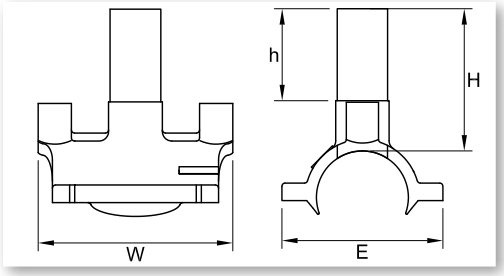
- For use on pipes up to SDR11.
- One electrofusion fitting fits both 400 and 450mm mains pipe resulting in reduced stockholding.
- Larger base footprint ensures correct alignment.
- Can be used with existing top-load clamping equipment reducing the need for expensive additional tooling or clamps.

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Branch Saddle I Underclamp
20 - 63mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d40x20 - 90x63



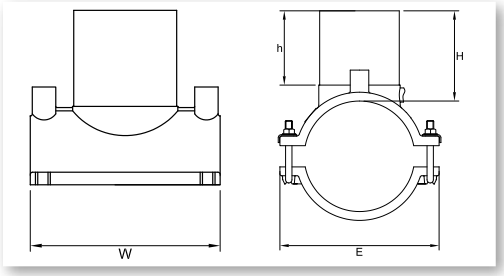


4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
BBKHFA40X20U	40 x 20	93	51	103	83	50	5	0.19	25	295 X 485 X 199	C	44.60
BBKHFA40X25U	40 x 25	90	52	103	83	50	5	0.19	20	295 X 485 X 199	C	44.60
BBKHFA40X32U	40 x 32	90	57	103	83	50	5	0.19	20	295 X 485 X 199	C	44.40
BBKHFA63X20U	63 x 20	90	50	122	105	140	10	0.31	10	295 X 485 X 199	C	40.86
BBKHFA63X25U	63 x 25	106	59	122	105	140	10	0.31	10	295 X 485 X 199	C	40.86
BBKHFA63X32U	63 x 32	106	59	122	105	140	10	0.31	10	295 X 485 X 199	C	41.05
BBKHFA90X20U	90 x 20	91	51	136	133	140	10	0.44	15	295 X 485 X 333	C	51.04
BBKHFA90X25U	90 x 25	91	51	136	133	140	10	0.44	15	295 X 485 X 333	C	51.04
BBKHFA90X32U	90 x 32	91	51	136	133	140	10	0.44	15	295 X 485 X 333	C	51.04
BBKHFA90X40U	90 x 40	105	69	136	133	140	10	0.44	10	295 X 485 X 333	C	50.52
BBKHFA90X50U	90 x 50	105	82	136	133	140	10	0.44	10	295 X 485 X 333	C	50.72
BBKHFA90X63U	90 x 63	105	88	136	133	140	10	0.44	10	295 X 485 X 333	C	51.94

Branch Saddle I Underclamp
90 - 125mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d90x90 - 250x125





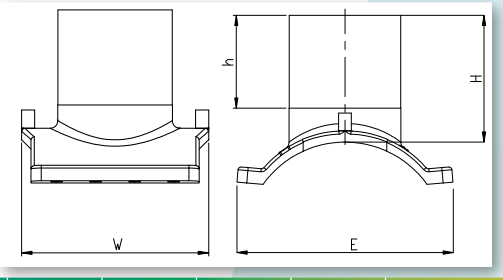
4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
BBKHFA90X90U	90 x 90	124	84	144	154	90	10	1.19	5	295 X 485 X 333	C	159.44
BBKHFA110X90U	110 x 90	121	84	165	180	120	10	1.22	5	295 X 485 X 333	A	140.81
BBKHFA125X90U	125 x 90	114	84	165	180	120	10	1.13	5	295 X 485 X 333	A	134.88
BBKHFA160X90U	160 x 90	110	84	215	236	120	10	2.09	4	232 X 453 X 387	C	226.26
BBKHFA180X90U	180 x 90	100	84	215	236	120	10	1.91	4	232 X 453 X 387	A	215.76
BBKHFA200X90U	200 x 90	115	84	165	263	120	10	1.99	3	295 X 485 X 333	A	217.89
BBKHFA225X90U	225 x 90	113	84	165	291	120	10	2.20	2	295 X 485 X 333	A	186.37
BBKHFA250X90U	250 x 90	120	84	165	317	120	10	2.66	2	295 X 485 X 333	A	222.59
BBKHFA160X110U	160 x 110	131	98	217	236	120	10	2.17	3	295 X 485 X 333	C	229.23
BBKHFA180X110U	180 x 110	121	98	217	236	120	10	2.10	3	295 X 485 X 333	C	264.67
BBKHFA180X125U	180 x 125	121	98	217	236	120	10	2.14	3	295 X 485 X 333	A	222.33
BBKHFM225X125U	225 x 125	123	98	310	327	500	30	7.70	1	390 X 510 X 380	C	1,855.60
BBKHFM250X125U	250 x 125	110	98	310	327	500	30	6.967	1	390 X 510 X 380	C	1,893.44

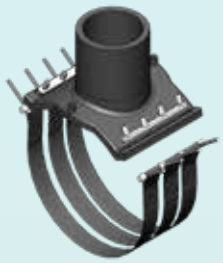
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Branch Saddle I Understrap
110 - 180mm outlet

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d315x110 - 630x180





4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
BBKHFM315X110U	315 x 110	193	150	300	360	460	20	4.48	1	295 X 485 X 333	C	POA
BBKHFM315X125U	315 x 125	193	150	300	360	460	20	4.48	1	295 X 485 X 333	C	POA
BBKHFM315X160U	315 x 160	193	150	300	360	460	20	4.97	1	295 X 485 X 333	C	POA
BBKHFM315X180U	315 x 180	193	150	300	360	460	20	4.99	1	295 X 485 X 333	C	POA
BBKHFM355X110U	355 x 110	193	150	300	360	460	20	4.45	1	295 X 485 X 333	C	POA
BBKHFM355X125U	355 x 125	193	150	300	360	460	20	4.48	1	295 X 485 X 333	C	POA
BBKHFM355X160U	355 x 160	193	150	300	360	460	20	4.84	1	295 X 485 X 333	C	POA
BBKHFM355X180U	355 x 180	193	150	300	360	460	20	5.04	1	295 X 485 X 333	C	POA
BBKHFM400X110U	400 x 110	193	150	300	360	460	20	4.48	1	295 X 485 X 333	C	POA
BBKHFM400X125U	400 x 125	193	150	300	360	460	20	4.59	1	295 X 485 X 333	C	POA
BBKHFM400X160U	400 x 160	193	150	300	360	460	20	4.84	1	295 X 485 X 333	C	POA
BBKHFM400X180U	400 x 180	193	150	300	360	460	20	4.34	1	295 X 485 X 333	C	POA
BBKHFM630X110U	630 x 110	193	150	300	360	460	20	5.00	1	295 X 485 X 333	C	POA
BBKHFM630X125U	630 x 125	193	150	300	360	460	20	5.00	1	295 X 485 X 333	C	POA
BBKHFM630X160U	630 x 160	193	150	300	360	460	20	5.10	1	295 X 485 X 333	C	POA
BBKHFM630X180U	630 x 180	193	150	300	360	460	20	5.10	1	295 X 485 X 333	C	POA

Flanged Branch Saddle I Underclamp

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d110xDN80 - d630xDN100

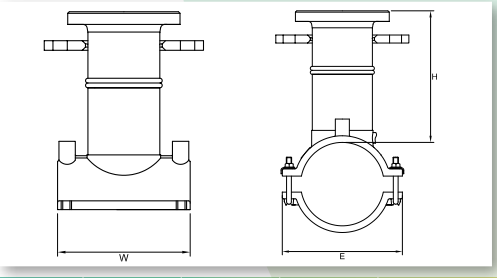
For use with large diameter under pressure drill

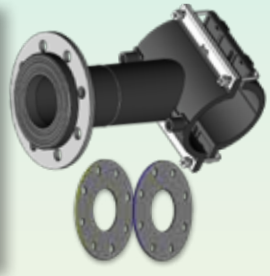
Fabricated fitting - 'H' height dimension may vary subject to component availability.

U - Flange branch saddle assembly and galvanised backing ring

DP - as above, including NBR and EPDM full face gaskets

Rilsan backing ring available upon request





4mm Pin Fitting Code	Fitting Size	H	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
FBBKHFA110X80U	110 x 80 NP16	242	165	180	120	10	1.10	1	510 X 390 X 380	C	POA
FBBKHFA125X80U	125 x 80 NP16	242	165	180	120	10	2.86	1	510 X 390 X 380	A	POA
FBBKHFA160X80U	160 x 80 NP16	194	215	236	120	10	3.82	1	510 X 390 X 380	C	POA
FBBKHFA160X100U	160 x 100 NP16	194	215	236	120	10	2.41	1	510 X 390 X 380	C	POA
FBBKHFA180X80U	180 x 80 NP16	242	215	236	120	10	3.79	1	510 X 390 X 380	C	POA
FBBKHFA180X100U	180 x 100 NP16	216	215	236	120	10	4.06	1	510 X 390 X 380	B	POA
FBBKHFA200X80U	200 x 80 NP16	188	165	263	120	10	4.64	1	510 X 390 X 380	C	POA
FBBKHFA225X80U	225 x 80 NP16	188	165	291	120	10	4.74	1	510 X 390 X 380	C	POA
FBBKHFA250X80U	250 x 80 NP16	193	165	317	120	10	4.39	1	510 X 390 X 380	B	POA
FBKHFM225X100DP	225 x 100 NP16	190	310	327	500	30	9.30	1	510 X 390 X 380	C	POA
FBKHFM250X100DP	250 x 100 NP16	190	310	327	500	30	9.36	1	510 X 390 X 380	C	POA
FBKHFM315X100DP	315 X 100 NP16	190	300	360	460	20	7.52	1	510 X 390 X 380	C	POA
FBKHFM355X100DP	355 X 100 NP16	190	300	360	460	20	7.82	1	510 X 390 X 380	C	POA
FBKHFM400X100DP	400 X 100 NP16	190	300	360	460	20	7.77	1	510 X 390 X 380	C	POA
FBKHFM630X100DP	630 X 100 NP16	190	300	360	460	20	7.77	1	510 X 390 X 380	C	POA

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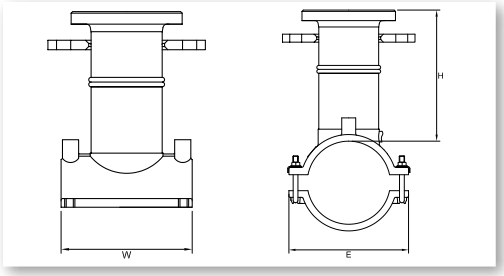
Flanged Branch Saddle | Underclamp
Fastcut

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d250xDN150 - d630xDN150

DP - Flange branch saddle assembly and galvanised backing ring, including NBR and EPDM full face gaskets

Only available through approved fastcut installers





4mm Pin Fitting Code	Fitting Size	H	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
FBKHFM250X150DP	250 x 150 NP16	190	310	320	460	20	11.11	1	510 X 390 X 380	C	5,223.05
FBKHFM250X200DP	250 x 200 NP16	190	310	320	460	20	12.81	1	510 X 390 X 380	C	5,493.47
FBKHFM280X150DP	280 x 150 NP16	190	310	320	360	20	12.80	1	510 X 390 X 380	C	5,426.48
FBKHFM280X200DP	280 x 200 NP16	190	310	320	360	20	12.80	1	510 X 390 X 380	C	5,669.65
FBKHFM315X150DP	315 x 150 NP16	190	300	360	460	20	7.82	1	295 X 485 X 333	C	5,240.45
FBKHFM315X250DP	315 x 250 NP16	190	420	385	600	30	26.90	1	620 X 465 X 480	C	6,434.96
FBKHFM355X150DP	355 x 150 NP16	190	300	360	460	20	8.128	1	295 X 485 X 333	C	2,135.42
FBKHFM355X250DP	355 x 250 NP16	190	420	425	600	30	26.72	1	620 X 465 X 480	C	6,700.02
FBKHFM400X150DP	400 x 150 NP16	215	300	360	460	20	7.77	1	295 X 485 X 333	C	2,149.63
FBKHFM400X250DP	400 x 250 NP16	215	420	440	600	30	7.77	1	620 X 465 X 480	C	6,919.55
FBKHFM450X150DP	450 x 150 NP16	215	420	530	440	30	15.24	1	620 X 465 X 480	C	6,086.09
FBKHFM450X250DP	450 x 250 NP16	215	420	530	440	30	15.24	1	620 X 465 X 480	C	6,674.79
FBKHFM500X150DP	500 x 150 NP16	215	420	580	440	30	15.24	1	620 X 465 X 480	C	6,416.11
FBKHFM500X250DP	500 x 250 NP16	215	420	580	440	30	15.24	1	620 X 465 X 480	C	6,998.43
FBKHFM630X150DP	630 x 150 NP16	215	300	360	460	20	8.39	1	295 X 485 X 333	C	2,111.06

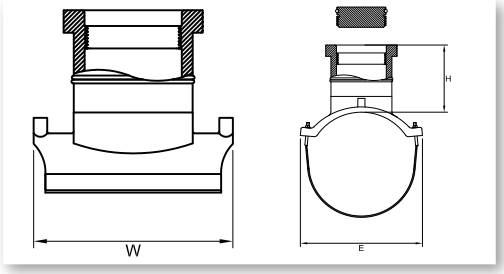
Flanged Branch Saddle | Understrap
ALH Flowstop

Specification

- PE100
- Gas 10 Bar
- d315xDN150 - d400xDN150

Only available through approved fastcut installers

For use with ALH flowstop bagtube





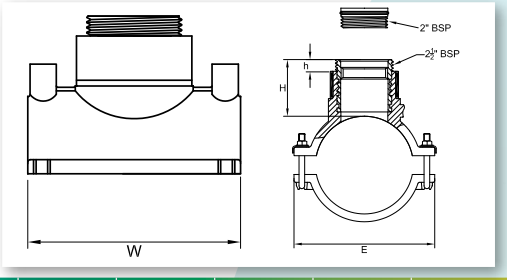
4.7mm Pin Fitting Code	Fitting Size	H	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
FBKHM315X150ALH	315 x 150 NP16	190	300	360	460	20	7.82	1	295 X 485 X 333	C	5,240.45
FBKHM355X150ALH	355 x 150 NP16	190	300	360	460	20	7.48	2	620 X 465 X 480	C	6,916.36
FBKHM400X150ALH	400 x 150 NP16	215	300	360	460	20	7.73	2	620 X 465 X 480	C	7,280.40

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Balloon Saddle

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d90x2½" - 250x2½"
- Red cap protects external thread



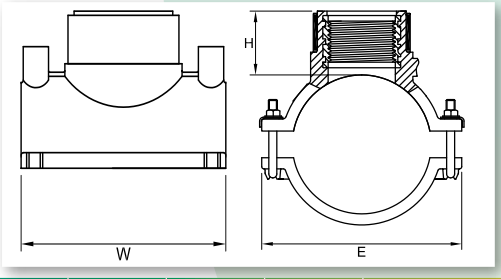


4mm Pin Fitting Code	Fitting Size	H	h	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
XBBKHFA90X2.5	90 x 2½"	71	15	144	154	90	10	2.27	4	295 X 485 X 199	C	160.78
XBBKHFA110X2.5	110 x 2½"	72	15	165	180	120	10	2.35	5	295 X 485 X 199	C	356.89
XBBKHFA125X2.5	125 x 2½"	72.5	15	165	180	120	10	2.29	8	295 X 485 X 199	C	360.92
XBBKHFA160X2.5	160 x 2½"	84	15	215	236	120	10	3.22	2	295 X 485 X 333	C	450.27
XBBKHFA180X2.5	180 x 2½"	74	15	215	236	140	10	3.33	2	295 X 485 X 333	C	433.16
XBBKHFA200X2.5	200 x 2½"	82	15	165	263	120	10	3.00	3	295 X 485 X 333	C	421.67
XBBKHFA225X2.5	225 x 2½"	80	15	165	291	120	10	3.32	2	295 X 485 X 333	B	424.48
XBBKHFA250X2.5	250 x 2½"	86	15	165	317	120	10	3.77	2	295 X 485 X 333	C	427.66

Transition Saddle

Specification

- PE100
- Water PN16
- Gas 10 Bar
- d63x1¼" - 250x2"





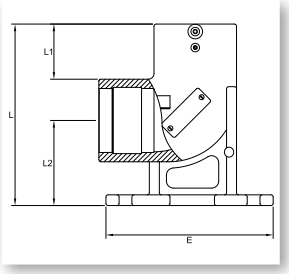
4mm Pin Fitting Code	Fitting Size	H	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
XBBKHFA63X1.3	63mm x 1¼"	57	118	102	120	10	1.58	10	295 X 485 X 199	C	288.44
XBBKHFA90X1.3	90mm x 1¼"	57	144	154	90	10	1.66	5	295 X 485 X 199	C	162.92
XBBKHFA90X1.5	90mm x 1½"	57	144	154	90	10	1.858	5	295 X 485 X 199	C	153.51
XBBKHFA90X2	90mm x 2"	57	144	154	90	10	1.63	5	295 X 485 X 199	C	93.38
XBBKHFA110X1.3	110mm x 1¼"	56	165	180	120	10	1.96	5	295 X 485 X 199	C	320.04
XBBKHFA110X1.5	110mm x 1½"	56	165	180	120	10	1.94	5	295 X 485 X 199	C	373.08
XBBKHFA110X2	110mm x 2"	56	165	180	120	10	1.70	5	295 X 485 X 199	C	261.74
XBBKHFA125X1.3	125mm x 1¼"	58	165	180	120	10	1.91	5	295 X 485 X 199	C	312.95
XBBKHFA125X1.5	125mm x 1½"	58	165	180	120	10	1.87	5	295 X 485 X 199	C	366.06
XBBKHFA125X2	125mm x 2"	58	165	180	120	10	1.64	5	295 X 485 X 199	C	253.43
XBBKHFA160X1.3	160mm x 1¼"	84	215	236	120	10	2.92	2	295 X 485 X 333	C	421.06
XBBKHFA160X1.5	160mm x 1½"	84	215	236	120	10	2.79	2	295 X 485 X 333	C	473.92
XBBKHFA160X2	160mm x 2"	84	215	236	120	10	2.65	2	295 X 485 X 333	C	343.75
XBBKHFA180X1.3	180mm x 1¼"	77	215	236	140	10	2.58	2	295 X 485 X 333	C	470.92
XBBKHFA180X1.5	180mm x 1½"	77	215	236	140	10	2.58	2	295 X 485 X 333	C	468.23
XBBKHFA180X2	180mm x 2"	77	215	236	140	10	2.60	2	295 X 485 X 333	C	339.47
XBBKHFA200X2	200mm x 2"	82	165	263	120	10	2.47	3	295 X 485 X 333	C	317.11
XBBKHFA225X2	225mm x 2"	80	165	291	120	10	3.12	2	295 X 485 X 333	C	312.64
XBBKHFA250X2	250mm x 2"	86	165	317	120	10	3.12	2	295 X 485 X 333	C	322.67

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Duckfoot Bend

Specification

- PE100
- Water PN16
- d90x90





4mm Pin Fitting Code	Fitting Size	L	L1	L2	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
DFBBKHFA90X90	90 x 90deg	257	77	120	236	140	10	2.14	3	295 X 485 X 424	B	124.67

Duckfoot Bend Kit

Specification

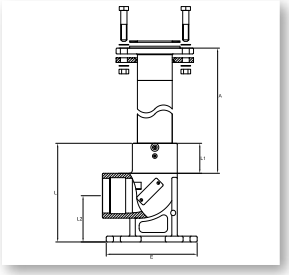
- PE100
- Water PN16
- d63xDN80 - d180xDN80

All kits are assembled using electrofusion and spigot components, certified against European Norms.

For specific markets specialist Rilsan backing rings are available - please confirm at time of ordering.

Kit: E/F bend, E/F coupler and/or E/F reducer[1], spigot reducer[1], riser, flange gasket, backing ring[2], bolts[2], nuts[2], washers[2]

1. Spigot reducer and coupler in all kits except 90 x 80NP16
2. Rilsan coated





4mm Pin Fitting Code	Fitting Size	L	L1	L2	A	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
DFBKHFA63X80KR	63 x 80NP16	257	77	120	455	232	140	10	6.88	1	295 X 485 X 333	A	356.53
DFBKHFA90X80KR	90 x 80NP16	257	77	120	455	232	140	10	6.54	1	295 X 485 X 333	A	320.71
DFBKHFA110X80KR	110 x 80NP16	257	77	120	455	232	140	10	7.63	1	295 X 485 X 333	A	393.72
DFBKHFA125X80KR	125 x 80NP16	257	77	120	455	232	140	10	7.88	1	295 X 485 X 333	A	395.70
DFBKHFA160X80KR	160 x 80NP16	257	77	120	455	232	140	10	10.33	1	295 X 485 X 424	A	565.81
DFBKHFA180X80KR	180 x 80NP16	257	77	120	455	232	140	10	9.23	1	295 X 485 X 333	A	508.42

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For more information visit our website www.fusiongroup.com

Hydrant Branch Saddle Kit

Specification

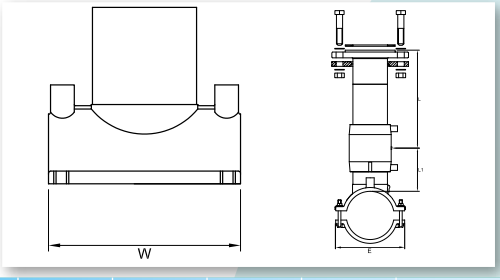
- PE100
- Water PN16
- d90xDN80 - d250xDN80

All kits are assembled using electrofusion and spigot components, certified against European Norms.

For specific markets specialist Rilsan backing rings are available - please confirm at time of ordering.

Kit: E/F hydrant branch saddle, coupler[1], riser, flange gasket, backing ring[2], bolts[2], nuts[2], washers[2]

1. Coupler in kit is 90mm
2. Rilsan coated





4mm Pin Fitting Code	Fitting Size	L	L1	W	E	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	secs	mins	Kg		mm		£ GBP
HBSHFA90X80KRR	90 x 80K	455	124	144	154	90	10	5.64	1	295 X 485 X 333	C	372.17
HBSHFA110X80KRR	110 x 80K	455	121	165	180	120	10	5.91	1	295 X 485 X 199	C	378.42
HBSHFA125X80KRR	125 x 80K	455	114	165	180	120	10	5.89	1	295 X 485 X 199	C	371.46
HBSHFA160X80KRR	160 x 80K	455	110	215	236	120	10	6.81	1	295 X 485 X 333	C	478.69
HBSHFA180X80KRR	180 x 80K	455	100	215	236	120	10	6.70	1	295 X 485 X 333	C	466.51
HBSHFA200X80KRR	200 x 80K	455	115	165	263	120	10	6.58	1	295 X 485 X 333	C	430.55
HBSHFA225X80KRR	225 x 80K	455	112	165	291	120	10	6.94	1	295 X 485 X 333	C	431.97
HBSHFA250X80KRR	250 x 80K	455	120	165	317	120	10	7.38	1	295 X 485 X 333	C	435.13

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SPIGOT FITTINGS



SPIGOT FITTINGS
FOR GAS AND WATER

The Fusion range of spigot fittings is one of the most extensive in the world, with over 3,000 different product lines.



Fusion have a whole range of moulded, machined and butt welded spigots including elbows, bends, tees, stub flanges and many more in a range of different sizes and SDR's needed for polyethylene pipe jointing. Our spigot range allows for complicated yet high performance pipeline systems with a more diverse range of fittings than electrofusion, especially for larger diameter fittings.

Manufacturing

All Fusamatic branded spigots are manufactured from PE100 virgin polyethylene polymer supplied by recognised international market leaders such as Borealis and Ineos. All materials comply with the requirements of relevant standards including EN 12201 for drainage, sewerage and potable water, and EN 1555 for gas. The recommended temperature range for Fusamatic spigots is +5˚C and +40˚C with butt fusion jointing methods, or between -10˚C and +40˚C using Fusamatic electrofusion systems.

All Fusamatic branded spigot fittings are available with long spigot welding ends suitable for butt fusion and electrofusion on site; short spigot welding ends are also available for cost effective factory assembled fabrications.

Fusamatic branded spigots comply with the requirements of:

- EN 12201-3 Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE) Fittings.
- EN 1555-3 Plastics piping systems for the supply of gaseous fuels. Polyethylene (PE) Fittings.

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International performance standards and regulations
Fusamatic branded spigots have the following international approvals:

- EN1555-3
- EN12201-3
- INSTA SBC EN 12201-3
- INSTA SBC EN 1555-3
- AS/NZS 4129 and ISO Type 5
- WRAS (UK)

*Due to size and fitting type regulations across standards, some items listed in this brochure may not be certified under the standards listed above.

Please contact Fusion's sales team on +44 (0)1246 260111 before placing your order.

Sizes
Note: SDR ratings, brand supplied and stated diameters are subject to availability.

Contact us for specific details on
+44 (0)1246 260111 or via the website - www.fusiongroup.com

Backing Rings
Fusion are able to provide a range of backing rings for mechanical connections in galvanised, stainless and polypropylene coated steel.

These can be supplied drilled in accordance to local standards, but typically available in stock for EN 1092 - PN10, EN 1092 - PN16 and ANSI Class 150.

Other ancillary items such as gaskets and bolting sets can be provided upon request.

Applications

- Potable water mains, service pipes and house connections
- Gas transmission, distribution and house connections
- Wastewater systems including sewers
- Water and wastewater treatment plants
- Rain water and grey water collection
- Syphonic roof drainage
- Trenchless pipeline techniques including directional drilling
- Pumped slurry systems in mines and quarries
- Ducting for electrical, telecommunications and fibre optic cabling including subsea
- Open water and marine fish cages
- Industrial applications including process pipework and compressed air networks
- Agricultural irrigation



NOW AVAILABLE BIM and CAD Models on Fusamatic range of spigot fittings

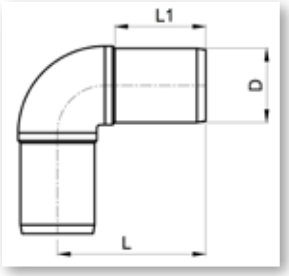
Visit the Fusion Group website - **www.fusiongroup.com** for direct access to Fusion's BIM and CAD models, in .dxf, .igs and .step file formats. The models provide customers with the ability to transfer 2D and 3D drawing data between a variety of CAD and BIM infrastructure design systems.

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90º Elbow

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-500





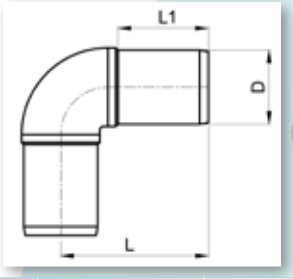
Code	D	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar							
LSEHK20X90N	20	63	41	0.02	100	C	4.92
LSEHK25X90N	25	63	41	0.02	100	C	4.99
LSEHK32X90N	32	72	44	0.04	50	C	5.34
LSEHK40X90N	40	80	49	0.07	30	C	6.86
LSEHK50X90N	50	92	55	0.14	25	C	9.08
LSEHK63X90N	63	111	63	0.25	40	B	16.78
LSEHK75X90N	75	126	70	0.43	30	B	22.26
LSEHK90X90N	90	145	79	0.67	20	B	25.51
LSEHK110X90N	110	161	82	1.08	12	B	47.49
LSEHK125X90N	125	173	87	1.47	12	B	60.53
LSEHK140X90N	140	195	92	2.16	8	B	67.53
LSEHK160X90N	160	205	98	2.90	4	B	88.54
LSEHK180X90N	180	230	105	4.23	4	B	102.47
LSEHK200X90N	200	245	112	5.97	3	A	140.26
LSEHK225X90N	225	264	120	7.30	2	B	166.82
LSEHK250X90N	250	292	129	10.34	1	A	322.12
LSEHK280X90N	280	340	139	15.73	1	C	472.30
LSEHK315X90N	315	370	150	21.17	1	B	629.82
LSEHK355X90N	355	401	164	28.67	1	C	1,443.31
LSEHK400X90N	400	451	179	41.50	1	C	2,153.84
LSEHK450X90N	450	522	202	59.00	1	B	3,591.67
LSEHK500X90N	500	562	222	80.00	1	C	5,129.63
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar							
LSEHK50X90V	50	108	80	0.11	40	C	13.87
LSEHK63X90V	63	111	63	0.19	40	B	15.05
LSEHK75X90V	75	126	70	0.32	30	C	20.04
LSEHK90X90V	90	145	79	0.49	20	C	22.95
LSEHK110X90V	110	161	82	0.78	12	B	42.64
LSEHK125X90V	125	173	87	1.05	12	C	54.43
LSEHK140X90V	140	195	92	1.51	8	C	60.81
LSEHK160X90V	160	205	98	2.15	4	B	79.73
LSEHK180X90V	180	230	105	3.10	4	B	92.14
LSEHK200X90V	200	245	112	4.35	3	B	126.12
LSEHK225X90V	225	264	120	5.26	2	C	150.18
LSEHK250X90V	250	292	129	7.66	1	B	289.81
LSEHK280X90V	280	340	139	11.46	1	C	425.08
LSEHK315X90V	315	370	150	15.56	1	A	566.94
LSEHK355X90V	355	401	164	22.17	1	B	1,299.03
LSEHK400X90V	400	451	179	30.96	1	C	1,938.42
LSEHK450X90V	450	522	202	43.00	1	B	2,840.45
LSEHK500X90V	500	562	222	60.00	1	C	3,904.23

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90º Elbow - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR 9 - Water PN20
- d25-500





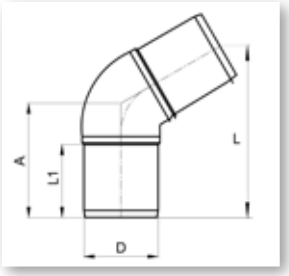
Code	D	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25							
LSEHK25X90T	25	71	47	0.04	100	C	16.85
LSEHK32X90T	32	74	50	0.06	60	C	17.75
LSEHK40X90T	40	88	56	0.11	60	C	18.86
LSEHK50X90T	50	90	57	0.18	46	C	26.90
LSEHK63X90T	63	112	67	0.38	70	C	40.35
LSEHK75X90T	75	127	72	0.57	32	C	59.97
LSEHK90X90T	90	150	82	0.96	24	C	89.44
LSEHK110X90T	110	167	90	1.56	15	C	137.35
LSEHK125X90T	125	178	91	2.21	8	C	270.33
LSEHK140X90T	140	192	96	3.13	6	C	342.30
LSEHK160X90T	160	209	104	4.30	5	C	429.52
LSEHK180X90T	180	209	107	5.30	4	C	562.50
LSEHK200X90T	200	250	117	7.70	40 - Pallet	C	664.91
LSEHK225X90T	225	265	122	9.28	28 - Pallet	C	865.49
LSEHK250X90T	250	294	131	14.74	20 - Pallet	C	1,351.65
LSEHK280X90T	280	322	126	20.20	14 - Pallet	C	1,948.96
LSEHK315X90T	315	350	153	27.90	9 - Pallet	C	2,243.28
LSEHK355X90T	355	375	165	34.20	8 - Pallet	C	3,662.46
LSEHK400X90T	400	424	185	48.62	4 - Pallet	C	4,970.44
LSEHK450X90T	450	-	-	-	1 - Pallet	C	POA
LSEHK500X90T	500	-	-	-	1 - Pallet	C	POA
PE100 I SDR 9 I Water PN 20							
LSEHK63X90R	63	112	67	0.36	70	C	39.24
LSEHK75X90R	75	127	72	0.05	32	C	57.20
LSEHK90X90R	90	150	82	0.91	24	C	85.97
LSEHK110X90R	110	167	90	1.48	15	C	135.20
LSEHK125X90R	125	178	91	2.10	8	C	255.35
LSEHK140X90R	140	192	96	2.97	6	C	329.19
LSEHK160X90R	160	209	104	4.10	5	C	414.27
LSEHK180X90R	180	223	107	5.04	4	C	540.66
LSEHK200X90R	200	250	117	7.32	40 - Pallet	C	628.71
LSEHK225X90R	225	265	122	8.82	28 - Pallet	C	832.76
LSEHK250X90R	250	294	131	14.00	20 - Pallet	C	1,299.31
LSEHK280X90R	280	322	126	19.19	14 - Pallet	C	1,874.84
LSEHK315X90R	315	350	153	26.51	9 - Pallet	C	2,158.21
LSEHK355X90R	355	375	165	32.49	8 - Pallet	C	3,488.02
LSEHK400X90R	400	424	185	46.19	4 - Pallet	C	4,796.06
LSEHK450X90R	450	-	-	-	1 - Pallet	C	POA
LSEHK500X90R	500	-	-	-	1 - Pallet	C	POA

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45º Elbow

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-500





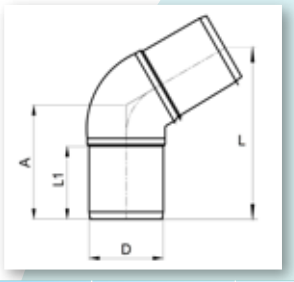
Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
LSEHK20X45N	20	119	41	70	0.03	100	C	4.78
LSEHK25X45N	25	125	41	73	0.04	100	C	4.85
LSEHK32X45N	32	136	44	79	0.06	50	C	5.20
LSEHK40X45N	40	145	49	85	0.85	32	B	6.66
LSEHK50X45N	50	153	55	89	0.14	20	C	8.81
LSEHK63X45N	63	160	63	93	0.23	50	B	16.29
LSEHK75X45N	75	176	70	102	0.33	30	C	21.56
LSEHK90X45N	90	202	79	118	0.58	24	B	24.82
LSEHK110X45N	110	220	82	128	0.98	18	B	46.04
LSEHK125X45N	125	239	87	139	1.30	12	B	58.66
LSEHK140X45N	140	250	92	145	1.70	12	C	65.52
LSEHK160X45N	160	273	98	159	2.44	9	B	85.90
LSEHK180X45N	180	290	105	168	3.33	4	B	99.35
LSEHK200X45N	200	311	112	179	4.43	3	B	135.96
LSEHK225X45N	225	341	120	198	6.20	2	B	161.82
LSEHK250X45N	250	368	129	213	8.18	2	B	312.49
LSEHK280X45N	280	406	139	235	11.32	1	C	458.22
LSEHK315X45N	315	430	150	249	14.60	1	B	610.97
LSEHK355X45N	355	490	164	284	22.94	1	C	1,273.03
LSEHK400X45N	400	548	179	317	31.10	1	C	2,020.58
LSEHK450X45N	450	-	202	375	44.00	1	C	3,371.33
LSEHK500X45N	500	-	222	410	57.00	1	C	4,447.73
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar								
LSEHK50X45V	50	-	61	76	0.08	10	C	14.35
LSEHK63X45V	63	160	63	93	0.18	50	C	14.63
LSEHK75X45V	75	176	70	102	0.25	30	C	19.41
LSEHK90X45V	90	202	79	118	0.44	24	B	22.33
LSEHK110X45V	110	220	82	128	0.70	18	B	41.39
LSEHK125X45V	125	239	87	139	0.93	12	B	52.76
LSEHK140X45V	140	250	92	145	1.25	12	C	58.93
LSEHK160X45V	160	273	98	159	1.79	9	B	77.31
LSEHK180X45V	180	290	105	168	2.38	4	C	89.44
LSEHK200X45V	200	311	112	179	3.36	3	B	122.37
LSEHK225X45V	225	341	120	198	4.37	2	C	145.60
LSEHK250X45V	250	368	129	213	5.88	2	B	281.22
LSEHK280X45V	280	406	139	235	8.20	1	C	412.33
LSEHK315X45V	315	430	150	249	11.12	1	B	549.88
LSEHK355X45V	355	490	164	284	16.15	1	C	1,145.73
LSEHK400X45V	400	548	179	317	23.00	1	C	1,818.54
LSEHK450X45V	450	-	202	375	33.00	1	C	2,507.65
LSEHK500X45V	500	-	222	410	43.00	1	C	3,380.14

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45º Elbow - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR 9 - Water PN20
- d40-500





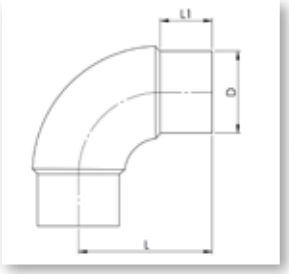
Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25								
LSEHK40X45T	40	-	58	78	0.10	70	C	20.73
LSEHK50X45T	50	-	59	84	0.18	46	C	28.84
LSEHK63X45T	63	-	69	90	0.29	62	C	39.24
LSEHK75X45T	75	-	73	90	0.45	60	C	54.57
LSEHK90X45T	90	-	82	109	0.69	22	C	78.49
LSEHK110X45T	110	-	93	127	1.22	12	C	130.83
LSEHK125X45T	125	-	93	162	2.00	7	C	279.07
LSEHK140X45T	140	-	97	163	2.62	8	C	355.40
LSEHK160X45T	160	-	107	175	3.58	6	C	409.90
LSEHK180X45T	180	-	108	190	4.38	3	C	593.01
LSEHK200X45T	200	-	118	190	5.96	50 - Pallet	C	623.51
LSEHK225X45T	225	-	120	210	7.84	32 - Pallet	C	863.34
LSEHK250X45T	250	-	135	215	10.40	28 - Pallet	C	1,142.34
LSEHK280X45T	280	-	142	258	15.70	14 - Pallet	C	1,750.60
LSEHK315X45T	315	-	154	270	21.00	12 - Pallet	C	2,005.61
LSEHK355X45T	355	-	155	267	25.46	12 - Pallet	C	2,616.02
LSEHK400X45T	400	-	182	310	35.86	3 - Pallet	C	3,706.07
LSEHK450X45T	450	-	-	-	-	1 - Pallet	C	POA
LSEHK500X45T	500	-	-	-	-	1 - Pallet	C	POA
PE100 I SDR 9 I Water PN 20								
LSEHK63X45R	63	-	69	90	0.28	62	C	37.58
LSEHK75X45R	75	-	73	90	0.43	60	C	52.14
LSEHK90X45R	90	-	82	109	0.66	22	C	75.02
LSEHK110X45R	110	-	93	127	1.16	12	C	124.80
LSEHK125X45R	125	-	93	162	1.90	7	C	265.96
LSEHK140X45R	140	-	97	163	2.49	8	C	337.93
LSEHK160X45R	160	-	107	175	3.40	6	C	392.43
LSEHK180X45R	180	-	108	190	4.16	3	C	564.65
LSEHK200X45R	200	-	118	190	5.66	50 - Pallet	C	585.80
LSEHK225X45R	225	-	120	210	7.45	32 - Pallet	C	824.10
LSEHK250X45R	250	-	136	215	9.88	28 - Pallet	C	1,090.06
LSEHK280X45R	280	-	142	258	14.92	14 - Pallet	C	1,669.89
LSEHK315X45R	315	-	154	270	19.95	12 - Pallet	C	1,916.23
LSEHK355X45R	355	-	165	267	24.19	12 - Pallet	C	2,507.02
LSEHK400X45R	400	-	182	310	34.07	3 - Pallet	C	3,597.01
LSEHK450X45R	450	-	-	-	-	1 - Pallet	C	POA
LSEHK500X45R	500	-	-	-	-	1 - Pallet	C	POA

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90º Multi Bend

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d32-315





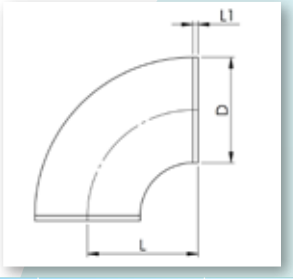
Code	D	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar							
LSMBHK32X90N	32	79	48	0.04	1	C	10.40
LSMBHK40X90N	40	92	52	0.08	1	C	14.98
LSMBHK50X90N	50	107	59	0.15	1	C	17.61
LSMBHK63X90N	63	131	69	0.28	4	C	30.23
LSMBHK75X90N	75	153	76	0.46	16	C	36.89
LSMBHK90X90N	90	173	83	0.76	10	B	39.03
LSMBHK110X90N	110	195	84	1.30	6	B	61.57
LSMBHK125X90N	125	216	92	1.82	4	C	91.17
LSMBHK140X90N	140	237	96	2.45	5	C	139.15
LSMBHK160X90N	160	262	103	3.42	4	B	146.43
LSMBHK180X90N	180	294	115	4.98	6	B	184.29
LSMBHK200X90N	200	317	122	6.80	4	B	193.86
LSMBHK225X90N	225	351	131	9.20	2	B	257.02
LSMBHK250X90N	250	382	133	13.12	2	B	436.31
LSMBHK280X90N	280	432	153	18.34	1	B	566.73
LSMBHK315X90N	315	471	154	25.13	1	B	784.02
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar							
LSMBHK50X90V	50	108	59	0.13	1	C	16.99
LSMBHK63X90V	63	130	67	0.20	4	C	26.28
LSMBHK75X90V	75	153	76	0.35	16	C	33.21
LSMBHK90X90V	90	173	83	0.52	10	C	35.15
LSMBHK110X90V	110	195	84	0.95	6	B	55.54
LSMBHK125X90V	125	216	92	1.34	4	C	82.09
LSMBHK140X90V	140	237	97	1.76	5	C	125.35
LSMBHK160X90V	160	262	103	2.41	4	B	132.01
LSMBHK180X90V	180	290	113	3.39	6	C	165.91
LSMBHK200X90V	200	317	122	4.61	4	C	174.58
LSMBHK225X90V	225	350	130	6.41	2	B	231.64
LSMBHK250X90V	250	382	134	9.83	2	C	392.57
LSMBHK280X90V	280	430	154	13.71	1	B	509.74
LSMBHK315X90V	315	465	153	19.35	1	B	705.33

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90º Bend | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 33 - Water PN5
- d20-500





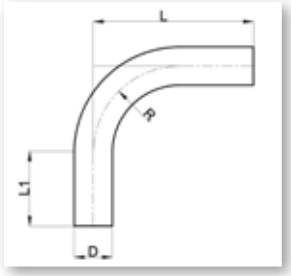
Code	D	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)							
SSEHK20X90N	20	38	18	0.01	300	C	6.45
SSEHK25X90N	25	32	5	0.05	10	C	7.56
SSEHK32X90N	32	37	6	0.05	10	C	8.04
SSEHK40X90N	40	44	8	0.05	10	C	10.05
SSEHK50X90N	50	51	10	0.10	5	C	12.55
SSEHK63X90N	63	66	12	0.10	5	C	16.92
SSEHK75X90N	75	87	14	0.30	2	C	17.40
SSEHK90X90N	90	100	15	0.40	2	C	33.70
SSEHK110X90N	110	118	15	0.70	2	C	60.67
SSEHK125X90N	125	138	15	1.10	1	C	88.47
SSEHK140X90N	140	155	20	1.50	1	C	118.42
SSEHK160X90N	160	178	25	2.00	1	C	139.08
SSEHK180X90N	180	195	25	2.80	1	C	170.49
SSEHK200X90N	200	210	20	3.90	1	C	245.02
SSEHK225X90N	225	236	25	5.40	1	C	303.47
SSEHK250X90N	250	279	30	7.30	1	C	580.25
SSEHK280X90N	280	316	40	11.00	1	C	735.56
SSEHK315X90N	315	352	40	15.00	1	C	942.17
SSEHK355X90N	355	380	38	20.83	1	C	1,497.53
SSEHK400X90N	400	434	41	30.21	1	C	2,054.76
SSEHK450X90N	450	450	50	38.30	1	C	3,893.00
SSEHK500X90N	500	450	50	47.30	1	C	4,963.50
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)							
SSEHK50X90V	50	51	10	0.05	5	C	11.30
SSEHK63X90V	63	66	12	0.10	5	C	15.95
SSEHK75X90V	75	87	14	0.20	2	C	23.71
SSEHK90X90V	90	100	15	0.30	2	C	28.15
SSEHK110X90V	110	118	15	0.50	2	C	61.64
SSEHK125X90V	125	138	15	0.80	1	C	78.00
SSEHK140X90V	140	155	20	1.10	1	C	113.01
SSEHK160X90V	160	178	25	1.50	1	C	124.31
SSEHK180X90V	180	195	25	2.30	1	C	153.57
SSEHK200X90V	200	210	20	3.10	1	C	190.60
SSEHK225X90V	225	236	25	4.20	1	C	235.94
SSEHK250X90V	250	279	30	4.70	1	C	381.96
SSEHK280X90V	280	316	40	6.80	1	C	498.58
SSEHK315X90V	315	352	40	9.50	1	B	687.23
SSEHK355X90V	355	380	38	13.35	1	C	1,106.28
SSEHK400X90V	400	432	41	20.20	1	C	1,538.78
SSEHK450X90V	450	450	50	22.90	1	C	2,897.99
SSEHK500X90V	500	450	50	30.60	1	C	3,656.15
PE100 | SDR 33 | Water PN 5							
SSEHK110X90Y	110	138	28	0.22	10	C	40.35
SSEHK125X90Y	125	130	15	0.34	1	C	52.42
SSEHK140X90Y	140	175	35	0.46	1	C	67.67
SSEHK160X90Y	160	200	40	0.75	7	C	82.65
SSEHK180X90Y	180	200	8	1.24	1	C	101.99
SSEHK200X90Y	200	206	19	1.31	3	C	125.42
SSEHK225X90Y	225	236	21	2.24	1	C	154.06
SSEHK250X90Y	250	255	20	2.44	4	C	190.94
SSEHK280X90Y	280	290	24	4.44	1	C	270.61
SSEHK315X90Y	315	322	22	5.02	2	C	292.86
SSEHK355X90Y	355	380	15	9.00	1	C	836.51
SSEHK400X90Y	400	434	41	11.18	1	C	1,169.79

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Seamless Bend 90º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





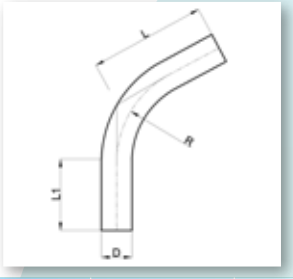
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X90N	32	148	70	48	0.08	1	C	77.93
LRBHK40X90N	40	160	75	60	0.14	1	C	77.93
LRBHK50X90N	50	200	100	75	0.20	1	C	78.55
LRBHK63X90N	63	220	100	95	0.40	1	C	101.09
LRBHK75X90N	75	260	100	113	0.70	1	C	108.37
LRBHK90X90N	90	300	150	135	1.10	1	C	116.90
LRBHK110X90N	110	380	150	165	2.10	1	C	177.22
LRBHK125X90N	125	400	150	188	2.80	1	C	203.35
LRBHK140X90N	140	440	150	210	3.90	1	C	245.51
LRBHK160X90N	160	480	150	240	5.50	1	C	285.17
LRBHK180X90N	180	530	150	270	7.60	1	C	430.35
LRBHK200X90N	200	560	150	300	9.90	1	C	494.28
LRBHK225X90N	225	590	150	338	13.10	1	C	540.31
LRBHK250X90N	250	730	250	375	20.20	1	C	845.31
LRBHK280X90N	280	750	250	420	25.70	1	C	1,028.84
LRBHK315X90N	315	900	300	496	39.20	1	C	1,308.18
LRBHK355X90N	355	900	300	533	55.10	1	C	1,975.10
LRBHK400X90N	400	980	300	600	72.70	1	C	2,523.04
LRBHK450X90N	450	1070	300	675	100.60	1	C	3,372.17
LRBHK500X90N	500	1200	350	750	140.90	1	C	5,253.25
LRBHK560X90N	560	1290	350	840	181.20	1	C	7,193.19
LRBHK630X90N	630	1400	350	945	275.60	1	C	9,019.99
LRBHK710X90N	710	1900	350	1128	416.20	1	C	15,101.22
LRBHK800X90N	800	1550	400	1200	549.80	1	C	POA
LRBHK900X90N	900	2200	400	1430	763.20	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X90V	50	200	100	75	0.20	1	C	65.80
LRBHK63X90V	63	220	100	95	0.30	1	C	94.99
LRBHK75X90V	75	260	100	113	0.50	1	C	101.09
LRBHK90X90V	90	300	150	135	0.70	1	C	108.37
LRBHK110X90V	110	380	150	165	1.40	1	C	140.05
LRBHK125X90V	125	400	150	188	1.90	1	C	161.96
LRBHK140X90V	140	440	150	210	2.60	1	C	196.35
LRBHK160X90V	160	480	150	240	3.70	1	C	215.49
LRBHK180X90V	180	530	150	270	5.20	1	C	343.96
LRBHK200X90V	200	560	150	300	6.70	1	C	413.02
LRBHK225X90V	225	590	150	338	8.80	1	C	487.21
LRBHK250X90V	250	730	250	375	13.60	1	C	632.39
LRBHK280X90V	280	750	250	420	17.40	1	C	712.95
LRBHK315X90V	315	900	300	496	26.50	1	C	923.94
LRBHK355X90V	355	900	300	533	37.40	1	C	1,290.99
LRBHK400X90V	400	980	300	600	49.10	1	C	1,926.50
LRBHK450X90V	450	1070	300	675	68.00	1	C	2,679.04
LRBHK500X90V	500	1200	350	750	95.30	1	C	4,016.69
LRBHK560X90V	560	1290	350	840	122.50	1	C	5,455.35
LRBHK630X90V	630	1400	350	945	186.40	1	C	6,817.20
LRBHK710X90V	710	1900	350	1128	281.10	1	C	11,519.80
LRBHK800X90V	800	2000	350	1274	371.40	1	C	POA
LRBHK900X90V	900	2200	400	1430	515.20	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X90T	110	340	150	165	2.72	1	C	250.50
LRBHK160X90T	160	415	150	240	7.16	1	C	395.34
LRBHK225X90T	225	513	150	338	16.37	1	C	939.40
LRBHK315X90T	315	803	250	473	53.00	1	C	1,716.35

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Seamless Bend 60º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





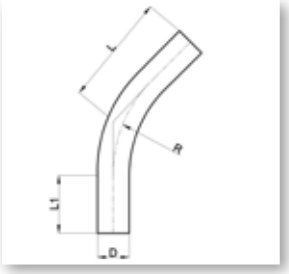
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X60N	32	128	70	48	0.10	1	C	77.93
LRBHK40X60N	40	135	75	60	0.12	1	C	77.93
LRBHK50X60N	50	170	100	75	0.20	1	C	78.55
LRBHK63X60N	63	180	100	95	0.30	1	C	101.09
LRBHK75X60N	75	220	100	113	0.60	1	C	108.37
LRBHK90X60N	90	250	150	135	1.00	1	C	116.90
LRBHK110X60N	110	280	150	165	1.60	1	C	177.22
LRBHK125X60N	125	300	150	188	2.30	1	C	203.35
LRBHK140X60N	140	350	150	210	3.30	1	C	245.51
LRBHK160X60N	160	380	150	240	4.70	1	C	285.17
LRBHK180X60N	180	410	150	270	6.40	1	C	430.35
LRBHK200X60N	200	430	150	300	8.30	1	C	494.28
LRBHK225X60N	225	450	150	338	10.90	1	C	540.31
LRBHK250X60N	250	570	250	375	17.10	1	C	845.31
LRBHK280X60N	280	580	250	420	21.70	1	C	1,028.84
LRBHK315X60N	315	690	300	496	32.80	1	C	1,308.18
LRBHK355X60N	355	760	300	560	45.70	1	C	1,975.10
LRBHK400X60N	400	780	300	637	59.40	1	C	2,523.04
LRBHK450X60N	450	820	300	711	78.90	1	C	3,372.17
LRBHK500X60N	500	960	350	783	114.20	1	C	5,253.25
LRBHK560X60N	560	980	350	877	145.50	1	C	7,193.19
LRBHK630X60N	630	1200	350	955	226.90	1	C	9,019.99
LRBHK710X60N	710	1450	350	1128	348.80	1	C	14,146.29
LRBHK800X60N	800	1250	400	1200	455.90	1	C	POA
LRBHK900X60N	900	1650	400	1430	634.20	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X60V	50	170	100	75	0.10	1	C	65.80
LRBHK63X60V	63	180	100	95	0.20	1	C	94.99
LRBHK75X60V	75	220	100	113	0.40	1	C	101.09
LRBHK90X60V	90	250	150	135	0.70	1	C	108.37
LRBHK110X60V	110	280	150	165	1.10	1	C	140.05
LRBHK125X60V	125	300	150	188	1.50	1	C	161.96
LRBHK140X60V	140	350	150	210	2.20	1	C	196.35
LRBHK160X60V	160	380	150	240	3.20	1	C	215.49
LRBHK180X60V	180	410	150	270	4.30	1	C	343.96
LRBHK200X60V	200	430	150	300	5.60	1	C	413.02
LRBHK225X60V	225	450	150	338	7.40	1	C	487.21
LRBHK250X60V	250	570	250	375	11.50	1	C	632.39
LRBHK280X60V	280	580	250	420	14.70	1	C	712.95
LRBHK315X60V	315	690	300	496	22.20	1	C	923.94
LRBHK355X60V	355	760	300	560	31.00	1	C	1,290.99
LRBHK400X60V	400	780	300	637	40.10	1	C	1,926.50
LRBHK450X60V	450	820	300	711	53.30	1	C	2,679.04
LRBHK500X60V	500	960	350	783	77.30	1	C	4,016.69
LRBHK560X60V	560	930	350	840	98.40	1	C	5,455.35
LRBHK630X60V	630	1000	350	945	153.50	1	C	6,817.20
LRBHK710X60V	710	1450	350	1128	235.60	1	C	10,656.46
LRBHK800X60V	800	1500	350	1274	307.90	1	C	POA
LRBHK900X60V	900	1650	400	1430	428.10	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X60T	110	270	150	165	2.40	1	C	247.38
LRBHK160X60T	160	313	150	240	7.16	1	C	374.61
LRBHK225X60T	225	370	150	338	13.95	1	C	887.26
LRBHK315X60T	315	612	250	473	50.67	1	C	1,579.90

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Seamless Bend 45º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





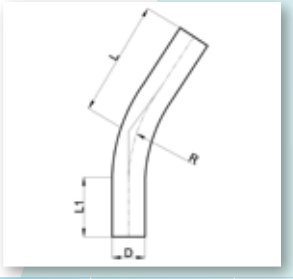
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X45N	32	120	70	48	0.07	1	C	77.93
LRBHK40X45N	40	120	75	60	0.11	1	C	77.93
LRBHK50X45N	50	160	100	75	0.20	1	C	77.93
LRBHK63X45N	63	170	100	95	0.30	1	C	99.84
LRBHK75X45N	75	180	100	113	0.40	1	C	106.57
LRBHK90X45N	90	220	150	135	0.60	1	C	111.42
LRBHK110X45N	110	240	150	165	1.00	1	C	170.49
LRBHK125X45N	125	250	150	188	1.90	1	C	188.79
LRBHK140X45N	140	270	150	210	2.60	1	C	213.75
LRBHK160X45N	160	330	150	240	4.20	1	C	256.39
LRBHK180X45N	180	350	150	270	5.60	1	C	377.52
LRBHK200X45N	200	360	150	300	7.10	1	C	454.27
LRBHK225X45N	225	380	150	338	9.40	1	C	504.54
LRBHK250X45N	250	490	250	375	15.00	1	C	741.73
LRBHK280X45N	280	510	250	420	19.50	1	C	881.78
LRBHK315X45N	315	560	300	496	27.10	1	C	1,125.35
LRBHK355X45N	355	630	300	560	38.70	1	C	1,910.48
LRBHK400X45N	400	670	300	637	52.20	1	C	2,239.19
LRBHK450X45N	450	750	300	711	74.10	1	C	2,791.57
LRBHK500X45N	500	760	350	750	109.90	1	C	4,153.48
LRBHK560X45N	560	800	350	840	145.20	1	C	5,356.28
LRBHK630X45N	630	870	350	945	193.50	1	C	7,567.25
LRBHK710X45N	710	1300	350	1128	320.30	1	C	14,146.29
LRBHK800X45N	800	950	400	1200	437.10	1	C	POA
LRBHK900X45N	900	1500	400	1430	592.30	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X45V	50	160	100	75	0.10	1	C	64.55
LRBHK63X45V	63	170	100	95	0.20	1	C	93.81
LRBHK75X45V	75	180	100	113	0.30	1	C	100.46
LRBHK90X45V	90	220	150	135	0.60	1	C	105.32
LRBHK110X45V	110	240	150	165	1.00	1	C	134.58
LRBHK125X45V	125	250	150	188	1.30	1	C	152.88
LRBHK140X45V	140	270	150	210	1.70	1	C	174.17
LRBHK160X45V	160	330	150	240	2.80	1	C	196.35
LRBHK180X45V	180	350	150	270	3.80	1	C	298.97
LRBHK200X45V	200	360	150	300	4.80	1	C	361.71
LRBHK225X45V	225	380	150	338	6.40	1	C	450.11
LRBHK250X45V	250	490	250	375	10.10	1	C	559.52
LRBHK280X45V	280	510	250	420	13.20	1	C	618.31
LRBHK315X45V	315	560	300	496	18.40	1	C	805.03
LRBHK355X45V	355	630	300	560	26.30	1	C	1,270.53
LRBHK400X45V	400	670	300	637	35.30	1	C	1,759.61
LRBHK450X45V	450	750	300	711	50.10	1	C	2,176.51
LRBHK500X45V	500	760	350	750	74.40	1	C	3,202.09
LRBHK560X45V	560	800	350	840	98.20	1	C	4,093.44
LRBHK630X45V	630	870	350	945	130.90	1	C	5,739.21
LRBHK710X45V	710	1300	350	1128	216.30	1	C	10,656.46
LRBHK800X45V	800	1400	350	1274	295.30	1	C	POA
LRBHK900X45V	900	1500	400	1430	399.80	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X45T	110	243	150	165	2.12	1	C	243.91
LRBHK160X45T	160	274	150	240	6.70	1	C	363.51
LRBHK225X45T	225	315	150	338	12.97	1	C	869.16
LRBHK315X45T	315	535	250	473	41.60	1	C	1,505.57

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Seamless Bend 30º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





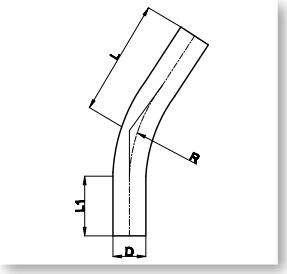
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X30N	32	113	70	48	0.07	1	C	77.93
LRBHK40X30N	40	116	75	60	0.12	1	C	77.93
LRBHK50X30N	50	150	100	75	0.20	1	C	77.93
LRBHK63X30N	63	160	100	95	0.30	1	C	99.84
LRBHK75X30N	75	170	100	113	0.50	1	C	106.57
LRBHK90X30N	90	210	150	135	0.80	1	C	111.42
LRBHK110X30N	110	220	150	165	1.30	1	C	170.49
LRBHK125X30N	125	235	150	188	1.80	1	C	188.79
LRBHK140X30N	140	250	150	210	2.40	1	C	213.75
LRBHK160X30N	160	260	150	240	3.30	1	C	256.39
LRBHK180X30N	180	280	150	270	4.50	1	C	377.52
LRBHK200X30N	200	310	150	300	6.10	1	C	454.27
LRBHK225X30N	225	350	150	338	8.80	1	C	504.54
LRBHK250X30N	250	430	250	375	13.30	1	C	741.73
LRBHK280X30N	280	450	250	420	17.40	1	C	881.78
LRBHK315X30N	315	500	300	496	24.50	1	C	1,069.05
LRBHK355X30N	355	590	300	560	36.80	1	C	1,910.48
LRBHK400X30N	400	650	300	637	51.40	1	C	2,239.19
LRBHK450X30N	450	700	300	711	70.20	1	C	2,791.57
LRBHK500X30N	500	650	350	750	92.70	1	C	4,153.48
LRBHK560X30N	560	680	350	840	123.90	1	C	6,078.11
LRBHK630X30N	630	730	350	945	166.80	1	C	7,567.25
LRBHK710X30N	710	1150	350	1128	287.00	1	C	14,146.29
LRBHK800X30N	800	950	400	1200	395.60	1	C	POA
LRBHK900X30N	900	1350	400	1430	540.70	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X30V	50	150	100	75	0.10	1	C	64.55
LRBHK63X30V	63	160	100	95	0.20	1	C	93.81
LRBHK75X30V	75	170	100	113	0.30	1	C	100.46
LRBHK90X30V	90	210	150	135	0.60	1	B	105.32
LRBHK110X30V	110	220	150	165	0.90	1	C	134.58
LRBHK125X30V	125	235	150	188	1.20	1	C	152.88
LRBHK140X30V	140	250	150	210	1.60	1	C	174.17
LRBHK160X30V	160	260	150	240	2.20	1	C	196.35
LRBHK180X30V	180	280	150	270	3.00	1	C	298.97
LRBHK200X30V	200	310	150	300	4.20	1	C	361.71
LRBHK225X30V	225	350	150	338	5.90	1	C	428.69
LRBHK250X30V	250	430	250	375	9.00	1	C	559.52
LRBHK280X30V	280	450	250	420	11.80	1	C	618.31
LRBHK315X30V	315	500	300	496	16.60	1	C	797.96
LRBHK355X30V	355	590	300	560	24.90	1	C	1,270.53
LRBHK400X30V	400	650	300	637	34.70	1	C	1,759.61
LRBHK450X30V	450	700	300	711	47.40	1	C	2,176.51
LRBHK500X30V	500	650	350	750	62.80	1	C	3,049.63
LRBHK560X30V	560	680	350	840	83.80	1	C	4,053.16
LRBHK630X30V	630	730	350	945	112.80	1	C	5,465.89
LRBHK710X30V	710	1150	350	1128	193.80	1	C	10,656.46
LRBHK800X30V	800	1250	350	1274	267.20	1	C	POA
LRBHK900X30V	900	1350	400	1430	365.00	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X30T	110	219	150	165	2.40	1	C	240.45
LRBHK160X30T	160	239	150	240	6.68	1	C	354.02
LRBHK225X30T	225	266	150	338	11.92	1	C	855.16
LRBHK315X30T	315	460	250	473	37.40	1	C	1,437.21

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Seamless Bend 22º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





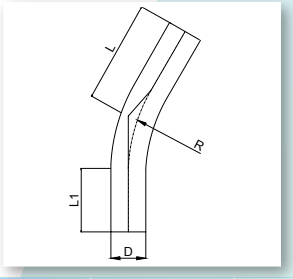
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X22N	32	113	70	48	0.08	1	C	77.93
LRBHK40X22N	40	116	75	60	0.10	1	C	77.93
LRBHK50X22N	50	150	100	75	0.20	1	C	77.93
LRBHK63X22N	63	160	100	95	0.30	1	C	99.84
LRBHK75X22N	75	170	100	113	0.50	1	C	106.57
LRBHK90X22N	90	210	150	135	0.80	1	C	111.42
LRBHK110X22N	110	220	150	165	1.30	1	C	170.49
LRBHK125X22N	125	235	150	188	1.80	1	C	188.79
LRBHK140X22N	140	250	150	210	2.40	1	C	213.75
LRBHK160X22N	160	260	150	240	3.30	1	C	256.39
LRBHK180X22N	180	280	150	270	4.50	1	C	377.52
LRBHK200X22N	200	310	150	300	6.20	1	C	454.27
LRBHK225X22N	225	350	150	338	8.80	1	C	504.54
LRBHK250X22N	250	430	250	375	13.40	1	C	741.73
LRBHK280X22N	280	450	250	420	17.50	1	C	881.78
LRBHK315X22N	315	500	300	496	24.60	1	C	1,069.05
LRBHK355X22N	355	590	300	560	36.90	1	C	1,910.48
LRBHK400X22N	400	650	300	637	51.60	1	C	2,239.19
LRBHK450X22N	450	700	300	711	70.50	1	C	2,791.57
LRBHK500X22N	500	650	350	750	93.10	1	C	4,153.48
LRBHK560X22N	560	680	350	840	124.50	1	C	6,078.11
LRBHK630X22N	630	730	350	945	167.50	1	C	7,567.25
LRBHK710X22N	710	1150	350	1128	288.00	1	C	14,146.29
LRBHK800X22N	800	950	400	1200	397.10	1	C	POA
LRBHK900X22N	900	1350	400	1430	542.90	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X22V	50	150	100	75	0.10	1	C	64.55
LRBHK63X22V	63	160	100	95	0.20	1	C	93.81
LRBHK75X22V	75	170	100	113	0.30	1	C	100.46
LRBHK90X22V	90	210	150	135	0.60	1	C	105.32
LRBHK110X22V	110	220	150	165	0.90	1	C	134.58
LRBHK125X22V	125	235	150	188	1.20	1	C	152.88
LRBHK140X22V	140	250	150	210	1.60	1	C	174.17
LRBHK160X22V	160	260	150	240	2.20	1	C	196.35
LRBHK180X22V	180	280	150	270	3.10	1	C	298.97
LRBHK200X22V	200	310	150	300	4.20	1	C	361.71
LRBHK225X22V	225	350	150	338	6.00	1	C	428.69
LRBHK250X22V	250	430	250	375	9.00	1	C	559.52
LRBHK280X22V	280	450	250	420	11.80	1	C	618.31
LRBHK315X22V	315	500	300	496	16.70	1	C	797.96
LRBHK355X22V	355	590	300	560	25.00	1	C	1,270.53
LRBHK400X22V	400	650	300	637	34.90	1	C	1,759.61
LRBHK450X22V	450	700	300	711	47.60	1	C	2,176.51
LRBHK500X22V	500	650	350	750	63.00	1	C	3,049.63
LRBHK560X22V	560	680	350	840	84.10	1	C	4,053.16
LRBHK630X22V	630	730	350	945	113.30	1	C	5,465.89
LRBHK710X22V	710	1150	350	1128	194.50	1	C	10,656.46
LRBHK800X22V	800	1250	350	1274	268.20	1	C	POA
LRBHK900X22V	900	1350	400	1430	366.40	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X22T	110	219	150	165	2.50	1	C	240.45
LRBHK160X22T	160	239	150	240	6.68	1	C	354.02
LRBHK225X22T	225	266	150	338	11.92	1	C	855.16
LRBHK315X22T	315	460	250	473	37.40	1	C	1,437.21

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Seamless Bend 11º

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 upon request
- d32-900





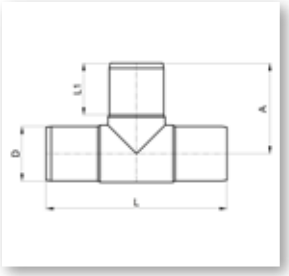
Code	D	L	L1	R	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I (Gas 10 Bar - Upon request)								
LRBHK32X11N	32	113	70	48	0.07	1	C	77.93
LRBHK40X11N	40	116	75	60	0.12	1	C	77.93
LRBHK50X11N	50	150	100	75	0.20	1	C	77.93
LRBHK63X11N	63	160	100	95	0.30	1	C	99.84
LRBHK75X11N	75	170	100	113	0.50	1	C	106.57
LRBHK90X11N	90	210	150	135	0.80	1	C	111.42
LRBHK110X11N	110	220	150	165	1.30	1	C	170.49
LRBHK125X11N	125	235	150	188	1.80	1	C	188.79
LRBHK140X11N	140	250	150	210	2.40	1	C	213.75
LRBHK160X11N	160	260	150	240	3.30	1	C	256.39
LRBHK180X11N	180	280	150	270	4.50	1	C	377.52
LRBHK200X11N	200	310	150	300	6.20	1	C	454.27
LRBHK225X11N	225	350	150	338	8.80	1	C	504.54
LRBHK250X11N	250	430	250	375	13.40	1	C	741.73
LRBHK280X11N	280	450	250	420	17.50	1	C	881.78
LRBHK315X11N	315	500	300	496	24.70	1	C	1,069.05
LRBHK355X11N	355	590	300	560	37.00	1	C	1,910.48
LRBHK400X11N	400	650	300	637	51.70	1	C	2,239.19
LRBHK450X11N	450	700	300	711	70.60	1	C	2,791.57
LRBHK500X11N	500	650	350	750	93.30	1	C	4,153.48
LRBHK560X11N	560	680	350	840	124.70	1	C	6,078.11
LRBHK630X11N	630	730	350	945	167.90	1	C	7,567.25
LRBHK710X11N	710	1150	350	1128	288.60	1	C	14,146.29
LRBHK800X11N	800	950	400	1200	397.90	1	C	POA
LRBHK900X11N	900	1350	400	1430	544.10	1	C	POA
PE100 I SDR 17 I Water PN 10 I (Gas 6 Bar - Upon request)								
LRBHK50X11V	50	150	100	75	0.10	1	C	64.55
LRBHK63X11V	63	160	100	95	0.20	1	C	93.81
LRBHK75X11V	75	170	100	113	0.30	1	C	100.46
LRBHK90X11V	90	210	150	135	0.60	1	C	105.32
LRBHK110X11V	110	220	150	165	0.90	1	C	134.58
LRBHK125X11V	125	235	150	188	1.20	1	C	152.88
LRBHK140X11V	140	250	150	210	1.60	1	C	174.17
LRBHK160X11V	160	260	150	240	2.20	1	C	196.35
LRBHK180X11V	180	280	150	270	3.10	1	C	298.97
LRBHK200X11V	200	310	150	300	4.20	1	C	361.71
LRBHK225X11V	225	350	150	338	6.00	1	C	428.69
LRBHK250X11V	250	430	250	375	9.00	1	C	559.52
LRBHK280X11V	280	450	250	420	11.90	1	C	618.31
LRBHK315X11V	315	500	300	496	16.70	1	C	797.96
LRBHK355X11V	355	590	300	560	25.10	1	C	1,270.53
LRBHK400X11V	400	650	300	637	34.90	1	C	1,759.61
LRBHK450X11V	450	700	300	711	47.70	1	C	2,176.51
LRBHK500X11V	500	650	350	750	63.20	1	C	3,049.63
LRBHK560X11V	560	680	350	840	84.30	1	C	4,053.16
LRBHK630X11V	630	730	350	945	113.60	1	C	5,465.89
LRBHK710X11V	710	1150	350	1128	194.90	1	C	10,656.46
LRBHK800X11V	800	1250	350	1274	268.80	1	C	POA
LRBHK900X11V	900	1350	400	1430	367.30	1	C	POA
PE100 I SDR 7.4 I Water PN 25								
LRBHK110X11T	110	219	150	165	2.50	1	C	240.45
LRBHK160X11T	160	239	150	240	6.68	1	C	354.02
LRBHK225X11T	225	266	150	338	11.92	1	C	855.16
LRBHK315X11T	315	460	250	473	37.40	1	C	1,437.21

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Equal Tee

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-630





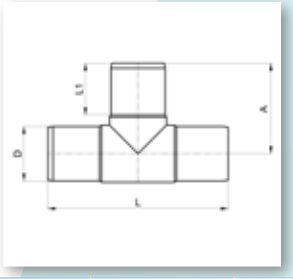
Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
LSETHK20N	20	148	41	74	0.04	50	C	5.89
LSETHK25N	25	158	41	78	0.05	40	C	6.03
LSETHK32N	32	166	44	84	0.09	30	C	7.14
LSETHK40N	40	188	49	96	0.10	20	C	8.60
LSETHK50N	50	229	55	114	0.25	40	C	11.37
LSETHK63N	63	216	63	107	0.38	36	B	15.95
LSETHK75N	75	261	70	130	0.59	22	C	24.27
LSETHK90N	90	290	79	142	0.92	14	B	37.58
LSETHK110N	110	327	82	162	1.57	14	B	53.66
LSETHK125N	125	356	87	178	2.26	8	B	75.71
LSETHK140N	140	380	92	189	2.79	6	B	114.26
LSETHK160N	160	417	98	208	4.25	4	B	132.57
LSETHK180N	180	458	105	225	5.85	3	B	191.08
LSETHK200N	200	481	112	236	7.50	2	B	277.96
LSETHK225N	225	527	120	260	10.27	2	B	329.13
LSETHK250N	250	590	129	292	14.03	1	A	471.88
LSETHK280N	280	690	139	340	21.60	1	C	633.64
LSETHK315N	315	712	150	352	26.55	1	A	944.25
LSETHK355N	355	789	164	394	39.26	1	B	1,924.35
LSETHK400N	400	877	179	439	54.00	1	C	2,923.58
LSETHK450N	450	984	195	470	80.00	2	B	3,600.97
LSETHK500N	500	1090	220	515	110.00	2	B	5,014.74
LSETHK560N	560	1230	240	565	146.00	1	B	6,672.50
LSETHK630N	630	1320	250	618	193.80	1	B	8,997.73
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar								
LSETHK50V	50	184	57	90	0.13	6	C	19.14
LSETHK63V	63	225	63	114	0.26	36	B	14.42
LSETHK75V	75	261	70	130	0.44	22	C	21.91
LSETHK90V	90	290	79	142	0.69	14	C	33.83
LSETHK110V	110	327	82	162	1.12	14	B	48.33
LSETHK125V	125	356	87	178	1.61	8	C	68.09
LSETHK140V	140	378	92	189	1.97	6	C	102.89
LSETHK160V	160	417	98	208	3.09	4	B	119.25
LSETHK180V	180	458	105	225	4.09	3	C	172.09
LSETHK200V	200	481	112	236	5.28	2	B	250.15
LSETHK225V	225	527	120	260	7.45	2	B	296.26
LSETHK250V	250	590	129	292	9.93	1	B	424.67
LSETHK280V	280	690	139	340	15.49	1	B	570.27
LSETHK315V	315	712	150	352	18.83	1	B	849.82
LSETHK355V	355	789	164	394	29.00	1	B	1,731.95
LSETHK400V	400	877	179	439	40.34	1	C	2,631.20
LSETHK450V	450	984	195	470	59.80	2	B	2,994.58
LSETHK500V	500	1090	220	515	78.20	2	C	4,233.70
LSETHK560V	560	1230	240	565	107.20	1	C	5,308.65
LSETHK630V	630	1320	250	618	144.80	1	C	7,385.87

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For more information visit our website www.fusiongroup.com

Equal Tee - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR 9 - Water PN20
- d25-630





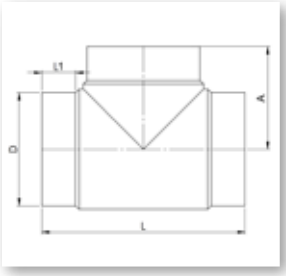
Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25								
LSETHK25T	25	139	46	-	0.06	50	C	22.33
LSETHK32T	32	148	49	-	0.09	30	C	24.47
LSETHK40T	40	175	57	-	0.17	44	C	26.90
LSETHK50T	50	180	56	-	0.23	30	C	32.73
LSETHK63T	63	229	68	-	0.52	44	C	42.15
LSETHK75T	75	256	72	-	0.80	28	C	66.49
LSETHK90T	90	303	82	-	1.36	16	C	86.39
LSETHK110T	110	336	92	-	2.24	7	C	128.47
LSETHK125T	125	356	91	-	2.98	5	C	212.37
LSETHK140T	140	390	96	-	4.18	4	C	298.69
LSETHK160T	160	423	104	-	6.36	48	C	401.16
LSETHK180T	180	451	107	-	7.78	35	C	688.90
LSETHK200T	200	501	117	-	10.60	29	C	909.10
LSETHK225T	225	538	121	-	14.27	20	C	1,120.57
LSETHK250T	250	596	131	-	19.74	14	C	1,842.12
LSETHK280T	280	651	127	-	27.18	10	C	2,565.89
LSETHK315T	315	703	152	-	40.00	7	C	3,080.41
LSETHK355T	355	800	165	-	52.20	6	C	3,924.06
LSETHK400T	400	890	180	-	66.00	4	C	4,948.67
LSETHK450T	450	984	195	-	92.60	2	C	7,630.06
LSETHK500T	500	1090	220	-	142.00	2	C	10,202.47
LSETHK560T	560	1230	240	-	205.00	1	C	POA
LSETHK630T	630	1320	250	-	-	1	C	POA
PE100 I SDR 9 I Water PN 20								
LSETHK75R	75	256	72	-	0.76	28	C	65.94
LSETHK90R	90	303	82	-	1.29	16	C	85.56
LSETHK110R	110	336	92	-	2.13	7	C	127.16
LSETHK125R	125	356	91	-	2.83	5	C	210.43
LSETHK140R	140	390	96	-	3.97	4	C	296.54
LSETHK160R	160	423	104	-	6.04	48	C	398.94
LSETHK180R	180	451	107	-	7.39	35	C	680.23
LSETHK200R	200	501	117	-	10.10	29	C	886.15
LSETHK225R	225	538	121	-	13.56	20	C	1,109.68
LSETHK250R	250	596	131	-	18.75	14	C	1,824.71
LSETHK280R	280	651	127	-	25.82	10	C	2,541.90
LSETHK315R	315	703	152	-	38.00	7	C	3,052.05
LSETHK355R	355	800	165	-	49.60	6	C	3,357.26
LSETHK400R	400	890	180	-	62.70	4	C	4,665.23
LSETHK450R	450	984	195	-	87.97	2	C	6,618.56
LSETHK500R	500	1090	220	-	134.90	2	C	9,439.46
LSETHK560R	560	1230	240	-	194.75	1	C	POA
LSETHK630R	630	1320	250	-	-	1	C	POA

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Equal Tee | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 33 - Water PN5
- d20-500





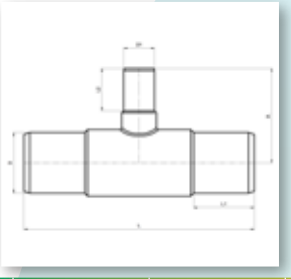
Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
SSETHK20N	20	76	11	38	0.02	90	C	5.27
SSETHK25N	25	84	11	40	0.03	50	C	5.75
SSETHK32N	32	87	11	42	0.05	30	C	6.45
SSETHK40N	40	90	11	45	0.07	25	C	9.71
SSETHK50N	50	100	12	50	0.12	10	C	12.90
SSETHK63N	63	135	17	67	0.25	30	C	19.76
SSETHK75N	75	153	19	75	0.39	16	C	38.83
SSETHK90N	90	198	43	99	0.71	10	C	56.65
SSETHK110N	110	254	55	127	1.26	6	C	82.44
SSETHK125N	125	254	52	125	1.64	4	C	113.85
SSETHK140N	140	314	65	153	2.69	5	C	142.83
SSETHK160N	160	322	58	161	3.38	4	C	240.10
SSETHK180N	180	430	94	214	5.74	2	C	308.46
SSETHK200N	200	438	90	219	7.28	3	C	440.82
SSETHK225N	225	452	76	226	9.62	3	C	523.67
SSETHK250N	250	450	68	227	10.77	3	C	673.57
SSETHK280N	280	530	87	265	15.95	1	C	907.99
SSETHK315N	315	570	88	285	21.29	1	C	1,289.05
SSETHK355N	355	698	103	349	31.8	1	C	1,735.48
SSETHK400N	400	730	105	363	40.45	1	C	2,589.88
SSETHK450N	450	837	137	419	47.00	1	C	3,706.56
SSETHK500N	500	930	159	465	89.00	1	C	4,708.91
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)								
SSETHK50V	50	100	13	50	0.09	10	C	11.65
SSETHK63V	63	136	17	67	0.19	30	C	15.60
SSETHK75V	75	154	19	75	0.29	16	C	30.44
SSETHK90V	90	198	42	99	0.54	10	C	42.85
SSETHK110V	110	257	55	129	0.93	6	C	70.30
SSETHK125V	125	254	52	125	1.17	4	C	97.00
SSETHK140V	140	314	62	157	1.81	5	C	114.40
SSETHK160V	160	320	57	160	2.38	4	C	215.00
SSETHK180V	180	435	96	214	4.10	2	C	263.19
SSETHK200V	200	440	93	220	5.15	3	C	359.49
SSETHK225V	225	450	76	225	6.97	3	C	422.03
SSETHK250V	250	450	67	225	7.67	3	C	559.03
SSETHK280V	280	528	86	264	10.90	1	C	638.42
SSETHK315V	315	565	87	282	14.87	1	C	850.79
SSETHK355V	355	699	103	348	22.36	1	C	1,291.47
SSETHK400V	400	722	105	361	28.75	1	C	2,000.41
SSETHK450V	450	838	137	419	45.00	1	C	2,880.31
SSETHK500V	500	940	163	471	62.20	1	C	3,708.36
PE100 | SDR 33 | Water PN 5								
SSETHK110Y	110	215	30	105	0.42	1	C	47.01
SSETHK125Y	125	218	35	107	0.68	1	C	64.13
SSETHK140Y	140	253	20	125	1.08	1	C	88.40
SSETHK160Y	160	270	40	140	1.28	1	C	105.87
SSETHK180Y	180	310	45	150	1.78	1	C	124.94
SSETHK200Y	200	340	45	170	2.30	1	C	154.82
SSETHK225Y	225	440	48	220	4.00	1	C	256.33
SSETHK250Y	250	438	52	215	6.66	1	C	440.82
SSETHK280Y	280	500	65	243	6.68	1	C	560.42
SSETHK315Y	315	535	77	270	10.00	1	C	706.78
SSETHK355Y	355	674	96	347	14.00	1	C	1,166.33
SSETHK400Y	400	680	90	340	20.00	1	C	1,709.69

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Reducing Tee

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- d50x25 - 280x160





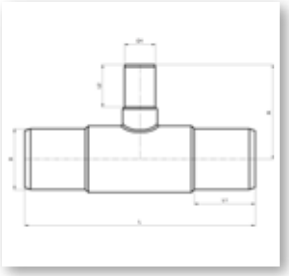
Code	D	L	L1	L2	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar									
LSRTHK50X25N	50-25	229	55	41	85	0.17	40	C	20.11
LSRTHK50X32N	50-32	229	55	44	88	0.19	40	C	20.11
LSRTHK50X40N	50-40	229	55	49	94	0.20	40	C	20.45
LSRTHK63X32N	63-32	216	63	44	89	0.31	36	C	24.96
LSRTHK63X40N	63-40	216	63	49	95	0.28	36	C	24.96
LSRTHK63X50N	63-50	216	63	55	103	0.33	36	C	25.45
LSRTHK75X32N	75-32	260	70	44	100	0.45	22	C	34.94
LSRTHK75X40N	75-40	261	70	49	106	0.45	22	C	35.64
LSRTHK75X50N	75-50	261	70	55	113	0.47	22	C	35.64
LSRTHK75X63N	75-63	261	70	63	121	0.53	22	C	36.40
LSRTHK90X50N	90-50	290	79	55	124	0.78	14	C	43.26
LSRTHK90X63N	90-63	290	79	63	132	0.80	14	C	44.17
LSRTHK90X75N	90-75	290	79	70	136	0.85	14	C	45.07
LSRTHK110X32N	110-32	-	-	-	-	1.26	14	C	93.53
LSRTHK110X50N	110-50	327	82	55	147	1.28	14	C	60.60
LSRTHK110X63N	110-63	327	82	63	149	1.33	14	C	61.85
LSRTHK110X75N	110-75	327	82	70	151	1.36	14	C	63.09
LSRTHK110X90N	110-90	327	82	79	157	1.42	14	C	64.34
LSRTHK125X63N	125-63	356	87	63	154	1.74	8	C	104.21
LSRTHK125X90N	125-90	356	87	79	172	2.04	8	C	88.95
LSRTHK125X110N	125-110	356	87	82	176	2.14	8	C	90.76
LSRTHK140X63N	140-63	390	97	72	-	2.51	4	C	154.54
LSRTHK140X90N	140-90	380	92	79	175	2.40	6	C	131.66
LSRTHK140X110N	140-110	380	92	82	179	2.54	6	C	134.44
LSRTHK140X125N	140-125	380	92	87	184	2.70	6	C	137.21
LSRTHK160X63N	160-63	417	98	63	175	3.42	5	C	146.64
LSRTHK160X75N	160-75	417	98	70	182	3.50	5	C	149.69
LSRTHK160X90N	160-90	417	98	79	187	3.54	5	C	152.74
LSRTHK160X110N	160-110	417	98	82	195	3.67	4	C	155.79
LSRTHK160X125N	160-125	417	98	87	200	3.75	4	C	158.98
LSRTHK180X63N	180-63	450	105	64	-	4.59	42 - Pallet	C	263.26
LSRTHK180X90N	180-90	458	105	79	206	5.00	3	C	215.83
LSRTHK180X110N	180-110	458	105	82	210	4.98	3	C	220.20
LSRTHK180X125N	180-125	458	105	87	215	5.14	3	C	224.71
LSRTHK180X160N	180-160	458	105	98	222	5.38	3	C	229.35
LSRTHK200X63N	200-63	481	112	63	191	6.24	3	C	313.94
LSRTHK200X90N	200-90	481	112	79	207	6.30	3	C	320.39
LSRTHK200X110N	200-110	481	112	82	211	6.44	3	C	326.84
LSRTHK200X125N	200-125	481	112	87	225	6.70	3	C	326.84
LSRTHK200X160N	200-160	481	112	98	227	6.90	3	C	333.49
LSRTHK200X180N	200-180	500	116	112	-	7.10	29 - Pallet	C	388.41
LSRTHK225X75N	225-75	560	129	73	219	9.75	3	C	602.99
LSRTHK225X90N	225-90	527	120	79	222	8.62	2	C	379.39
LSRTHK225X110N	225-110	527	120	82	226	8.78	2	C	387.16
LSRTHK225X125N	225-125	527	120	87	239	8.78	2	C	387.16
LSRTHK225X160N	225-160	527	120	98	242	9.22	2	C	395.06
LSRTHK225X180N	225-180	540	120	106	-	9.80	20 - Pallet	C	467.38
LSRTHK250X90N	250-90	590	129	79	243	11.51	1	C	522.29
LSRTHK250X110N	250-110	590	129	82	251	11.73	1	C	532.90
LSRTHK250X125N	250-125	590	129	87	252	11.74	1	B	532.90
LSRTHK250X160N	250-160	590	129	98	267	12.25	1	C	543.78
LSRTHK250X180N	250-180	596	130	106	-	12.62	16 - Pallet	B	751.02
LSRTHK250X200N	250-200	590	129	112	278	12.81	1	C	558.41
LSRTHK250X225N	250-225	590	129	120	285	13.16	1	C	566.25
LSRTHK280X110N	280-110	690	139	82	290	17.97	1	C	701.31
LSRTHK280X160N	280-160	690	139	98	302	18.64	1	C	701.31

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Reducing Tee - Continued

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d63x50 - 630x250





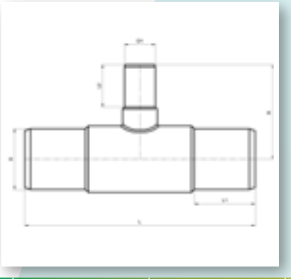
Code	D	L	L1	L2	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar									
LSRTHK280X200N	280-200	690	139	112	316	19.33	1	C	730.22
LSRTHK280X225N	280-225	690	139	120	320	19.85	1	C	745.13
LSRTHK280X250N	280-250	685	139	129	331	20.45	1	C	760.38
LSRTHK315X110N	315-110	712	150	82	293	22.00	1	C	1,045.13
LSRTHK315X125N	315-125	703	152	105	-	23.50	10 - Pallet	C	1,215.14
LSRTHK315X160N	315-160	712	150	98	303	22.60	1	C	1,066.42
LSRTHK315X180N	315-180	703	152	116	-	24.10	9 - Pallet	C	1,215.14
LSRTHK315X200N	315-200	712	150	112	317	23.05	1	C	1,088.19
LSRTHK315X225N	315-225	712	150	120	325	23.70	1	C	1,110.44
LSRTHK315X250N	315-250	712	150	129	332	25.32	1	B	1,133.05
LSRTHK355X110N	355-110	690	180	90	-	28.16	9 - Pallet	C	2,346.24
LSRTHK355X160N	355-160	685	180	101	-	27.80	8 - Pallet	C	2,346.24
LSRTHK355X225N	355-225	674	174	120	-	28.97	7 - Pallet	C	2,346.24
LSRTHK400X110N	400-110	755	190	89	-	38.40	6 - Pallet	C	3,265.67
LSRTHK400X160N	400-160	755	190	102	-	39.31	5 - Pallet	C	3,265.67
LSRTHK400X225N	400-225	755	190	120	-	50.20	5 - Pallet	C	3,265.67
LSRTHK450X315N	450-315	887	198	155	-	63.80	3 - Pallet	C	4,286.19
LSRTHK450X225N	450-225	765	198	122	-	53.00	4 - Pallet	C	4,286.19
LSRTHK450X160N	450-160	676	197	100	-	42.60	4 - Pallet	C	4,286.19
LSRTHK500X160N	500-160	710	215	99	-	55.20	4 - Pallet	C	5,825.80
LSRTHK500X250N	500-250	815	220	140	-	63.00	3 - Pallet	C	5,919.06
LSRTHK560X250N	560-250	960	240	135	-	95.00	2 - Pallet	C	7,755.97
LSRTHK630X160N	630-160	800	255	101	-	99.50	2 - Pallet	C	10,613.41
LSRTHK630X250N	630-250	875	255	137	-	103.00	2 - Pallet	C	10,613.41
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar									
LSRTHK63X50V	63-50	217	61	56	103	0.22	1	C	27.87
LSRTHK75X50V	75-50	252	68	56	109	0.41	1	C	42.09
LSRTHK75X63V	75-63	261	70	63	121	0.39	22	C	32.73
LSRTHK90X50V	90-50	302	81	58	-	0.71	20	C	43.33
LSRTHK90X63V	90-63	290	79	63	132	0.61	14	C	39.80
LSRTHK90X75V	90-75	290	79	70	136	0.64	14	C	40.56
LSRTHK110X50V	110-50	335	90	57	-	0.99	13	C	63.79
LSRTHK110X63V	110-63	327	82	63	149	0.98	14	C	55.67
LSRTHK110X75V	110-75	327	82	70	151	1.05	14	C	56.78
LSRTHK110X90V	110-90	327	82	79	157	1.09	14	C	57.89
LSRTHK125X63V	125-63	358	90	70	-	1.26	8	C	94.85
LSRTHK125X90V	125-90	356	87	79	172	1.40	8	C	80.01
LSRTHK125X110V	125-110	356	87	82	176	1.50	8	C	81.67
LSRTHK140X63V	140-63	390	97	72	-	2.16	3	C	138.39
LSRTHK140X90V	140-90	380	92	79	175	1.73	6	C	118.56
LSRTHK140X110V	140-110	380	92	82	179	1.80	6	C	120.99
LSRTHK140X125V	140-125	380	92	87	184	1.85	6	C	123.41
LSRTHK160X63V	160-63	417	98	63	175	2.55	5	C	131.94
LSRTHK160X75V	160-75	417	98	70	182	2.65	5	C	134.78
LSRTHK160X90V	160-90	417	98	79	187	2.60	5	C	137.49
LSRTHK160X110V	160-110	417	98	82	195	2.70	4	C	140.33
LSRTHK160X125V	160-125	417	98	87	200	2.79	4	C	143.10
LSRTHK160X140V	160-140	-	-	-	-	2.80	4	C	145.95
LSRTHK180X63V	180-63	450	105	64	-	4.36	42 - Pallet	C	239.41
LSRTHK180X90V	180-90	458	105	79	206	3.50	3	C	194.27
LSRTHK180X110V	180-110	458	105	82	210	3.63	3	C	198.22
LSRTHK180X125V	180-125	458	105	87	215	3.60	3	C	202.31
LSRTHK180X160V	180-160	458	105	98	226	3.90	3	C	206.41
LSRTHK200X63V	200-63	481	112	63	191	4.48	3	C	282.60
LSRTHK200X90V	200-90	481	112	79	207	4.55	3	C	288.36
LSRTHK200X110V	200-110	481	112	82	211	4.65	3	C	294.11
LSRTHK200X125V	200-125	481	112	87	225	4.73	3	C	294.11

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Reducing Tee - Continued

Specification

- PE100
- SDR 17 - Water PN10 / Gas 6 Bar
- d200x160 - 630x250





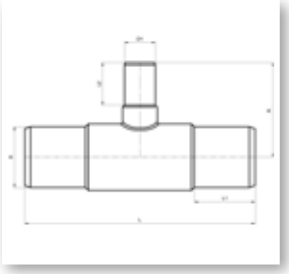
Code	D	L	L1	L2	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar									
LSRTHK200X160V	200-160	481	112	98	227	4.91	3	C	300.21
LSRTHK200X180V	200-180	500	116	112	-	6.75	29 - Pallet	C	353.53
LSRTHK225X75V	225-75	561	129	72	219	7.06	3	C	564.86
LSRTHK225X90V	225-90	527	120	79	222	6.38	2	C	341.40
LSRTHK225X110V	225-110	527	120	82	226	6.5	2	C	348.40
LSRTHK225X125V	225-125	527	120	87	239	6.51	2	C	348.40
LSRTHK225X160V	225-160	527	120	98	242	6.69	2	C	355.54
LSRTHK225X180V	225-180	540	120	106	-	6.96	20 - Pallet	C	425.43
LSRTHK250X90V	250-90	590	129	79	243	8.35	1	C	470.08
LSRTHK250X110V	250-110	590	129	82	251	8.45	1	C	479.58
LSRTHK250X125V	250-125	590	129	87	252	8.46	1	C	639.25
LSRTHK250X160V	250-160	590	129	98	267	8.71	1	B	489.35
LSRTHK250X180V	250-180	596	130	109	-	9.56	16 - Pallet	C	694.37
LSRTHK250X200V	250-200	590	129	112	278	9.05	1	C	501.83
LSRTHK250X225V	250-225	590	129	120	285	9.56	1	C	509.67
LSRTHK280X110V	280-110	690	139	82	290	13.28	1	C	631.21
LSRTHK280X160V	280-160	690	139	98	302	13.76	1	C	631.21
LSRTHK280X200V	280-200	690	139	112	316	13.87	1	C	657.21
LSRTHK280X225V	280-225	690	139	120	320	14.41	1	C	670.66
LSRTHK280X250V	280-250	690	139	129	334	14.64	1	C	684.32
LSRTHK315X110V	315-110	712	150	82	293	16.35	1	C	940.58
LSRTHK315X125V	315-125	703	152	105	-	18.03	9 - Pallet	C	1,087.08
LSRTHK315X160V	315-160	712	150	98	303	16.73	1	C	959.85
LSRTHK315X180V	315-180	703	152	116	-	18.24	9 - Pallet	C	1,087.08
LSRTHK315X200V	315-200	712	150	112	317	16.80	1	C	979.40
LSRTHK315X225V	315-225	712	150	120	320	17.22	1	C	999.37
LSRTHK315X250V	315-250	712	150	129	332	17.75	1	C	1,019.75
LSRTHK355X110V	355-110	690	180	90	-	20.60	9 - Pallet	C	1,764.46
LSRTHK355X160V	355-160	685	180	101	-	20.94	8 - Pallet	C	1,764.46
LSRTHK355X225V	355-225	674	174	120	-	20.94	7 - Pallet	C	1,764.46
LSRTHK355X250V	355-250	685	175	130	-	21.40	7 - Pallet	C	1,764.46
LSRTHK400X110V	400-110	755	190	89	-	29.00	6 - Pallet	C	2,704.90
LSRTHK400X160V	400-160	755	190	102	-	29.10	5 - Pallet	C	2,704.90
LSRTHK400X225V	400-225	755	190	120	-	29.92	5 - Pallet	C	2,704.90
LSRTHK450X160V	450-160	676	197	100	-	31.80	4 - Pallet	C	3,469.79
LSRTHK450X225V	450-225	765	198	122	-	40.00	4 - Pallet	C	3,469.79
LSRTHK450X315V	450-315	887	198	155	-	48.00	3 - Pallet	C	3,469.79
LSRTHK500X160V	500-160	710	215	99	-	39.54	4 - Pallet	C	4,740.60
LSRTHK500X250V	500-250	960	240	135	-	46.40	3 - Pallet	C	4,816.52
LSRTHK560X250V	560-250	960	240	135	-	70.80	2 - Pallet	C	5,919.06
LSRTHK630X160V	630-160	800	255	101	-	66.20	2 - Pallet	C	8,164.14
LSRTHK630X250V	630-250	875	255	137	-	80.20	2 - Pallet	C	8,164.14

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Reducing Tee - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR 9 - Water PN20
- d250x160 - 560x250





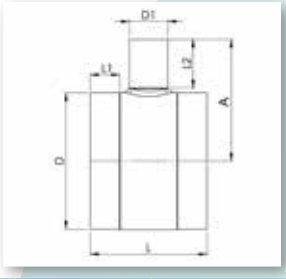
Code	D	L	L1	L2	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25									
LSRTHK250X160T	250-160	596	130	106	-	17.00	16	C	2,116.82
LSRTHK315X110T	315-110	703	156	91	-	29.80	1	C	3,080.41
LSRTHK315X160T	315-160	703	152	106	-	34.18	9	C	3,080.41
LSRTHK315X200T	315-200	703	152	120	-	33.37	1	C	3,080.41
LSRTHK355X160T	355-160	685	180	101	-	37.70	8	C	3,924.06
LSRTHK400X160T	400-160	755	190	102	-	52.22	5	C	4,948.67
LSRTHK400X225T	400-225	755	190	120	-	53.40	1	C	4,948.67
LSRTHK450X160T	450-160	676	197	100	-	57.71	1	C	7,630.06
LSRTHK450X225T	450-225	198	196	122	-	69.39	1	C	7,630.06
LSRTHK450X315T	450-315	887	196	155	-	88.59	1	C	7,630.06
LSRTHK560X250T	560-250	960	240	135	-	167.20	1	C	10,202.47
PE100 I SDR 9 I Water PN20									
LSRTHK250X160R	250-160	596	130	106	-	16.15	16	C	2,099.41
LSRTHK315X110R	315-110	703	156	91	-	29.00	10	C	3,052.05
LSRTHK315X160R	315-160	703	152	106	-	29.50	9	C	3,052.05
LSRTHK315X200R	315-200	703	152	120	-	29.50	9	C	3,052.05
LSRTHK355X160R	355-160	685	180	101	-	35.82	8	C	3,357.26
LSRTHK400X160R	400-160	755	190	102	-	49.61	5	C	4,665.23
LSRTHK400X225R	400-225	755	190	120	-	50.73	1	C	4,665.23
LSRTHK450X160R	450-160	676	197	100	-	49.60	1	C	6,618.56
LSRTHK450X225R	450-225	198	196	122	-	62.20	1	C	6,618.56
LSRTHK450X315R	450-315	887	196	155	-	74.60	1	C	6,618.56
LSRTHK560X250R	560-250	960	240	135	-	158.84	1	C	9,439.46

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Reducing Tee | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- d90x32 - 180x125





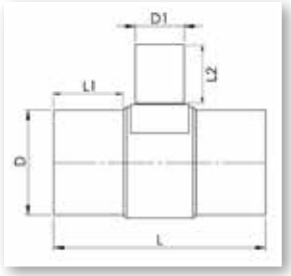
Code	D-D1	L	L1	L2	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)									
SSRTHK90X32N	90-32	203	53	23	85	0.56	1	C	53.66
SSRTHK110X32N	110-32	234	66	22	91	0.94	1	C	79.25
SSRTHK110X50N	110-50	240	66	27	101	0.95	1	C	80.91
SSRTHK125X63N	125-63	264	70	31	110	1.40	1	C	110.59
SSRTHK140X63N	140-63	291	83	32	120	1.80	1	C	137.49
SSRTHK140X75N	140-75	291	81	35	130	1.88	1	C	123.76
SSRTHK140X90N	140-90	291	81	41	130	1.92	1	C	139.85
SSRTHK140X110N	140-110	291	50	44	140	2.24	1	C	143.38
SSRTHK160X125N	160-125	315	58	47	150	2.69	1	C	238.51
SSRTHK180X63N	180-63	348	125	30	140	3.16	1	C	295.78
SSRTHK180X75N	180-75	348	112	30	160	3.35	1	C	296.33
SSRTHK180X125N	180-125	348	92	50	150	3.55	1	C	305.21
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)									
SSRTHK140X63V	140-63	291	83	32	120	1.36	1	C	109.48
SSRTHK140X75V	140-75	291	81	35	130	1.37	1	C	110.45
SSRTHK140X90V	140-90	291	81	41	130	1.38	1	C	111.97
SSRTHK140X110V	140-110	291	50	44	140	1.66	1	C	114.26
SSRTHK160X125V	160-125	315	58	47	150	2.69	1	C	211.95
SSRTHK180X63V	180-63	348	125	30	140	2.20	1	C	251.82
SSRTHK180X75V	180-75	348	112	30	160	2.30	1	C	252.93
SSRTHK180X125V	180-125	348	92	50	150	2.50	1	C	259.31

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For more information visit our website www.fusiongroup.com

Reducing and Equal Tee | Machined

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- d250x63 - 450x200





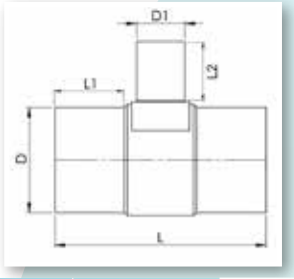
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
MLSRTHK250X63N	250-63	676	250	150	11.70	1	C	2,013.79
MLSRTHK250X75N	250-75	691	250	150	12.10	1	C	2,030.84
MLSRTHK250X90N	250-90	706	250	150	12.60	1	C	2,052.75
MLSRTK250X110N	250-110	726	250	150	13.20	1	C	2,122.15
MLSRTK250X125N	250-125	741	250	150	13.70	1	C	2,207.43
MLSRTK250X140N	250-140	756	250	150	14.20	1	C	2,381.60
MLSRTK250X160N	250-160	777	250	150	15.00	1	C	2,499.74
MLSRTK250X180N	250-180	797	250	150	15.80	1	C	2,580.73
MLSRTK250X200N	250-200	817	250	150	16.60	1	C	2,810.91
MLSRTK250X225N	250-225	844	250	150	17.80	1	C	3,435.05
MLSRTHK280X63N	280-63	676	250	150	14.60	1	C	2,118.55
MLSRTHK280X75N	280-75	691	250	150	15.10	1	C	2,142.89
MLSRTHK280X90N	280-90	706	250	150	15.60	1	C	2,183.65
MLSRTK280X110N	280-110	726	250	150	16.30	1	C	2,230.59
MLSRTK280X125N	280-125	741	250	150	16.90	1	C	2,279.89
MLSRTK280X140N	280-140	756	250	150	17.50	1	C	2,458.35
MLSRTK280X160N	280-160	777	250	150	18.40	1	C	2,516.18
MLSRTK280X180N	280-180	797	250	150	19.30	1	C	2,918.10
MLSRTK280X200N	280-200	817	250	150	20.20	1	C	3,103.78
MLSRTK280X225N	280-225	844	250	150	21.50	1	C	3,371.75
MLSRTHK315X75N	315-75	791	300	150	21.40	1	C	2,247.65
MLSRTHK315X90N	315-90	806	300	150	22.00	1	C	2,822.49
MLSRTK315X110N	315-110	826	300	150	22.90	1	C	2,777.42
MLSRTK315X125N	315-125	841	300	150	23.50	1	C	2,840.73
MLSRTK315X140N	315-140	856	300	150	24.20	1	C	2,911.38
MLSRTK315X160N	315-160	877	300	150	25.20	1	C	2,988.13
MLSRTK315X180N	315-180	897	300	150	26.20	1	C	3,067.86
MLSRTK315X200N	315-200	917	300	150	27.30	1	C	3,177.48
MLSRTK315X225N	315-225	944	300	150	28.80	1	C	3,638.47
MLSRTK315X250N	315-250	967	300	250	31.70	1	C	3,822.35
MLSRTHK355X90N	355-90	806	300	150	27.80	1	C	2,777.42
MLSRTK355X110N	355-110	826	300	150	28.80	1	C	2,854.11
MLSRTK355X125N	355-125	841	300	150	29.60	1	C	2,912.00
MLSRTK355X140N	355-140	856	300	150	30.40	1	C	3,224.97
MLSRTK355X160N	355-160	877	300	150	31.60	1	C	3,360.17
MLSRTK355X180N	355-180	897	300	150	32.70	1	C	3,463.06
MLSRTK355X200N	355-200	917	300	150	34.00	1	C	3,571.50
MLSRTK355X225N	355-225	944	300	150	35.70	1	C	4,018.42
MLSRTK355X250N	355-250	967	300	250	38.80	1	C	4,181.01
MLSRTK355X280N	355-280	997	300	250	41.30	1	C	4,959.90
MLSRTK400X110N	400-110	826	300	150	36.10	1	C	4,370.43
MLSRTK400X125N	400-125	841	300	150	37.10	1	C	3,710.93
MLSRTK400X140N	400-140	856	300	150	38.00	1	C	3,820.54
MLSRTK400X160N	400-160	877	300	150	39.40	1	C	3,924.68
MLSRTK400X180N	400-180	897	300	150	40.80	1	C	4,612.75
MLSRTK400X200N	400-200	917	300	150	42.20	1	C	4,807.02
MLSRTK400X225N	400-225	944	300	150	44.10	1	C	5,015.92
MLSRTK400X250N	400-250	967	300	250	47.50	1	C	5,317.94
MLSRTK400X280N	400-280	997	300	250	50.30	1	C	6,139.40
MLSRTK400X315N	400-315	1032	300	300	55.10	1	C	6,462.14
MLSRTK450X125N	450-125	841	300	150	46.40	1	C	4,040.95
MLSRTK450X140N	450-140	856	300	150	47.60	1	C	4,155.49
MLSRTK450X160N	450-160	877	300	150	49.20	1	C	4,311.98
MLSRTK450X180N	450-180	897	300	150	50.80	1	C	4,903.25
MLSRTK450X200N	450-200	917	300	150	52.40	1	C	5,092.05

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Reducing and Equal Tee | Machined - Continued

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- d450x225 - 900x900





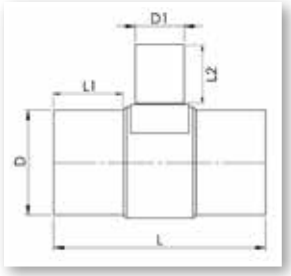
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
MLSRTK450X225N	450-225	944	300	150	54.70	1	C	5,272.25
MLSRTK450X250N	450-250	967	300	250	58.30	1	C	6,055.37
MLSRTK450X280N	450-280	997	300	250	61.50	1	C	6,396.42
MLSRTK450X315N	450-315	1032	300	300	66.60	1	C	6,974.86
MLSRTK450X355N	450-355	1072	300	300	71.70	1	C	8,243.32
MLSRTK500X140N	500-140	956	350	150	64.70	1	C	5,246.11
MLSRTK500X160N	500-160	977	350	150	66.60	1	C	5,382.49
MLSRTK500X180N	500-180	997	350	150	68.50	1	C	5,574.33
MLSRTK500X200N	500-200	1017	350	150	70.40	1	C	5,771.58
MLSRTK500X225N	500-225	1044	350	150	73.00	1	C	6,928.62
MLSRTK500X250N	500-250	1067	350	250	77.00	1	C	7,208.10
MLSRTK500X280N	500-280	1097	350	250	80.50	1	C	7,533.90
MLSRTK500X315N	500-315	1132	350	300	86.20	1	C	7,879.80
MLSRTK500X355N	500-355	1172	350	300	91.80	1	C	9,407.63
MLSRTK500X400N	500-400	1218	350	300	98.70	1	C	10,096.94
MLSRTK560X160N	560-160	1005	350	150	85.10	1	C	6,666.12
MLSRTK560X180N	560-180	1025	350	150	87.40	1	C	7,216.63
MLSRTK560X200N	560-200	1045	350	150	89.60	1	C	7,403.62
MLSRTK560X225N	560-225	1070	350	150	92.60	1	C	7,823.16
MLSRTK560X250N	560-250	1095	350	250	97.10	1	C	7,996.07
MLSRTK560X280N	560-280	1125	350	250	101.20	1	C	8,490.56
MLSRTK560X315N	560-315	1160	350	300	107.40	1	C	9,354.66
MLSRTK560X355N	560-355	1200	350	300	113.80	1	C	10,437.37
MLSRTK560X400N	560-400	1246	350	300	121.50	1	C	14,886.98
MLSRTK560X450N	560-450	1296	350	300	130.50	1	C	14,550.78
MLSETHK560N	560-560	1410	350	350	156.60	1	C	16,434.91
MLSRTK630X180N	630-180	1025	350	150	110.00	1	C	8,239.64
MLSRTK630X200N	630-200	1045	350	150	112.70	1	C	8,447.92
MLSRTK630X225N	630-225	1070	350	150	116.20	1	C	8,712.22
MLSRTK630X250N	630-250	1095	350	250	121.30	1	C	8,972.84
MLSRTK630X280N	630-280	1125	350	250	126.10	1	C	12,403.66
MLSRTK630X315N	630-315	1160	350	300	133.20	1	C	11,881.79
MLSRTK630X355N	630-355	1200	350	300	140.40	1	C	12,500.45
MLSRTK630X400N	630-400	1246	350	300	149.20	1	C	13,380.43
MLSRTK630X450N	630-450	1296	350	300	159.40	1	C	16,000.12
MLSRTK630X500N	630-500	1346	350	350	173.30	1	C	18,767.15
MLSETHK630N	630-630	1480	350	350	206.40	1	C	19,866.91
MLSRTK710X180N	710-180	1025	350	150	138.90	1	C	12,342.79
MLSRTK710X200N	710-200	1045	350	150	142.30	1	C	12,600.99
MLSRTK710X225N	710-225	1070	350	150	146.50	1	C	12,851.83
MLSRTK710X250N	710-250	1095	350	250	152.30	1	C	13,330.51
MLSRTK710X280N	710-280	1125	350	250	158.10	1	C	13,737.85
MLSRTK710X315N	710-315	1160	350	300	166.20	1	C	14,814.45
MLSRTK710X355N	710-355	1200	350	300	174.60	1	C	15,534.27
MLSRTK710X400N	710-400	1246	350	300	184.70	1	C	16,541.48
MLSRTK710X450N	710-450	1296	350	300	196.30	1	C	18,429.84
MLSRTK710X500N	710-500	1346	350	350	211.70	1	C	20,771.85
MLSRTK710X560N	710-560	1410	350	350	228.80	1	C	23,384.82
MLSETHK710N	710-710	1560	350	350	273.90	1	C	29,037.70
MLSETHK800N	800-800	1652	350	350	369.10	1	C	POA
MLSETHK900N	900-900	1850	400	400	519.00	1	C	POA

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For more information visit our website www.fusiongroup.com

Reducing and Equal Tee | Machined - Continued

Specification

- PE100
- SDR 17 - Water PN10 / (Gas 5 Bar - Upon request)
- d250x63 - 450x200





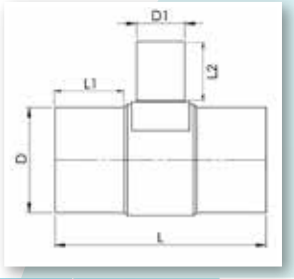
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 5 Bar - Upon request)								
MLSRTHK250X63V	250-63	676	250	150	8.20	1	C	1,835.95
MLSRTHK250X75V	250-75	691	250	150	8.50	1	C	1,905.42
MLSRTHK250X90V	250-90	706	250	150	8.80	1	C	1,961.44
MLSRTK250X110V	250-110	726	250	150	9.30	1	C	2,041.17
MLSRTK250X125V	250-125	741	250	150	9.70	1	C	2,122.15
MLSRTK250X140V	250-140	756	250	150	10.10	1	C	2,209.24
MLSRTK250X160V	250-160	777	250	150	10.70	1	C	2,343.26
MLSRTK250X180V	250-180	797	250	150	11.30	1	C	2,458.91
MLSRTK250X200V	250-200	817	250	150	11.90	1	C	2,704.97
MLSRTK250X225V	250-225	844	250	150	12.80	1	C	3,271.91
MLSRTHK280X63V	280-63	676	250	150	10.30	1	C	1,932.81
MLSRTHK280X75V	280-75	691	250	150	10.70	1	C	1,966.92
MLSRTHK280X90V	280-90	706	250	150	11.10	1	C	2,025.37
MLSRTK280X110V	280-110	726	250	150	11.70	1	C	2,098.44
MLSRTK280X125V	280-125	741	250	150	12.10	1	C	2,179.42
MLSRTK280X140V	280-140	756	250	150	12.60	1	C	2,256.18
MLSRTK280X160V	280-160	777	250	150	13.20	1	C	2,516.18
MLSRTK280X180V	280-180	797	250	150	13.90	1	C	2,698.25
MLSRTK280X200V	280-200	817	250	150	14.60	1	C	2,877.26
MLSRTK280X225V	280-225	844	250	150	15.60	1	C	3,371.75
MLSRTHK315X75V	315-75	791	300	150	15.00	1	C	2,177.62
MLSRTHK315X90V	315-90	806	300	150	15.50	1	C	2,622.74
MLSRTK315X110V	315-110	826	300	150	16.20	1	C	2,659.90
MLSRTK315X125V	315-125	841	300	150	16.70	1	C	2,752.46
MLSRTK315X140V	315-140	856	300	150	17.20	1	C	2,609.98
MLSRTK315X160V	315-160	877	300	150	18.00	1	C	2,979.60
MLSRTK315X180V	315-180	897	300	150	18.70	1	C	3,067.86
MLSRTK315X200V	315-200	917	300	150	19.50	1	C	3,177.48
MLSRTK315X225V	315-225	944	300	150	20.70	1	C	3,638.47
MLSRTK315X250V	315-250	967	300	250	22.80	1	C	3,822.35
MLSRTHK355X90V	355-90	806	300	150	19.60	1	C	2,601.46
MLSRTK355X110V	355-110	826	300	150	20.40	1	C	2,776.80
MLSRTK355X125V	355-125	841	300	150	21.00	1	C	2,855.98
MLSRTK355X140V	355-140	856	300	150	21.60	1	C	2,982.03
MLSRTK355X160V	355-160	877	300	150	22.50	1	C	3,360.17
MLSRTK355X180V	355-180	897	300	150	23.40	1	C	3,463.06
MLSRTK355X200V	355-200	917	300	150	24.30	1	C	3,571.50
MLSRTK355X225V	355-225	944	300	150	25.60	1	C	4,018.42
MLSRTK355X250V	355-250	967	300	250	27.90	1	C	4,181.01
MLSRTK355X280V	355-280	997	300	250	29.70	1	C	4,959.90
MLSRTK400X110V	400-110	826	300	150	25.40	1	C	4,050.11
MLSRTK400X125V	400-125	841	300	150	26.10	1	C	3,385.13
MLSRTK400X140V	400-140	856	300	150	26.80	1	C	3,491.07
MLSRTK400X160V	400-160	877	300	150	27.90	1	C	3,591.61
MLSRTK400X180V	400-180	897	300	150	28.90	1	C	4,253.53
MLSRTK400X200V	400-200	917	300	150	29.90	1	C	4,441.08
MLSRTK400X225V	400-225	944	300	150	31.40	1	C	4,640.83
MLSRTK400X250V	400-250	967	300	250	33.90	1	C	4,932.51
MLSRTK400X280V	400-280	997	300	250	36.00	1	C	5,906.78
MLSRTK400X315V	400-315	1032	300	300	39.40	1	C	6,395.79
MLSRTK450X125V	450-125	841	300	150	32.60	1	C	4,406.34
MLSRTK450X140V	450-140	856	300	150	33.40	1	C	3,810.77
MLSRTK450X160V	450-160	877	300	150	34.60	1	C	3,961.22
MLSRTK450X180V	450-180	897	300	150	35.80	1	C	4,530.59
MLSRTK450X200V	450-200	917	300	150	37.10	1	C	4,711.41

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For more information visit our website www.fusiongroup.com

Reducing and Equal Tee | Machined - Continued

Specification

- PE100
- SDR 17 - Water PN10 / (Gas 5 Bar - Upon request)
- d450x225 - 1200x1200





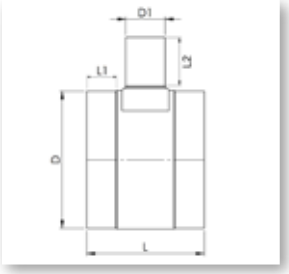
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | Gas 5 Bar (Upon request)								
MLSRTK450X225V	450-225	944	300	150	38.80	1	C	4,884.95
MLSRTK450X250V	450-250	967	300	250	41.40	1	C	5,695.53
MLSRTK450X280V	450-280	997	300	250	43.80	1	C	6,048.09
MLSRTK450X315V	450-315	1032	300	300	47.60	1	C	6,523.64
MLSRTK450X355V	450-355	1072	300	300	51.30	1	C	8,243.32
MLSRTK500X140V	500-140	956	350	150	45.40	1	C	4,821.02
MLSRTK500X160V	500-160	977	350	150	46.80	1	C	4,953.17
MLSRTK500X180V	500-180	997	350	150	48.20	1	C	5,137.67
MLSRTK500X200V	500-200	1017	350	150	49.60	1	C	5,327.09
MLSRTK500X225V	500-225	1044	350	150	51.60	1	C	6,928.62
MLSRTK500X250V	500-250	1067	350	250	54.50	1	C	7,208.10
MLSRTK500X280V	500-280	1097	350	250	57.10	1	C	7,462.62
MLSRTK500X315V	500-315	1132	350	300	61.30	1	C	7,879.80
MLSRTK500X355V	500-355	1172	350	300	65.50	1	C	8,988.10
MLSRTK500X400V	500-400	1218	350	300	70.60	1	C	10,030.59
MLSRTK560X160V	560-160	1005	350	150	59.60	1	C	6,376.31
MLSRTK560X180V	560-180	1025	350	150	61.30	1	C	6,622.93
MLSRTK560X200V	560-200	1045	350	150	63.00	1	C	6,804.37
MLSRTK560X225V	560-225	1070	350	150	65.20	1	C	7,208.10
MLSRTK560X250V	560-250	1095	350	250	68.50	1	C	7,373.74
MLSRTK560X280V	560-280	1125	350	250	71.60	1	C	7,849.92
MLSRTK560X315V	560-315	1160	350	300	76.20	1	C	8,680.53
MLSRTK560X355V	560-355	1200	350	300	80.90	1	C	10,189.50
MLSRTK560X400V	560-400	1246	350	300	86.60	1	C	13,083.27
MLSRTK560X450V	560-450	1296	350	300	93.30	1	C	13,805.45
MLSETHK560V	560-560	1410	350	350	112.20	1	C	15,709.62
MLSRTK630X180V	630-180	1025	350	150	77.10	1	C	7,677.63
MLSRTK630X200V	630-200	1045	350	150	79.10	1	C	7,875.50
MLSRTK630X225V	630-225	1070	350	150	81.70	1	C	8,195.82
MLSRTK630X250V	630-250	1095	350	250	85.50	1	C	8,629.99
MLSRTK630X280V	630-280	1125	350	250	89.10	1	C	10,374.62
MLSRTK630X315V	630-315	1160	350	300	94.20	1	C	11,085.91
MLSRTK630X355V	630-355	1200	350	300	99.60	1	C	11,782.51
MLSRTK630X400V	630-400	1246	350	300	106.10	1	C	12,976.70
MLSRTK630X450V	630-450	1296	350	300	113.70	1	C	15,048.31
MLSRTK630X500V	630-500	1346	350	350	124.00	1	C	18,561.37
MLSETHK630V	630-630	1480	350	350	148.00	1	C	18,980.28
MLSRTK710X180V	710-180	1025	350	150	97.10	1	C	10,958.62
MLSRTK710X200V	710-200	1045	350	150	99.60	1	C	11,207.66
MLSRTK710X225V	710-225	1070	350	150	102.80	1	C	11,449.43
MLSRTK710X250V	710-250	1095	350	250	107.00	1	C	11,909.80
MLSRTK710X280V	710-280	1125	350	250	111.30	1	C	12,301.33
MLSRTK710X315V	710-315	1160	350	300	117.20	1	C	13,337.17
MLSRTK710X355V	710-355	1200	350	300	123.40	1	C	14,030.78
MLSRTK710X400V	710-400	1246	350	300	130.90	1	C	14,999.57
MLSRTK710X450V	710-450	1296	350	300	139.60	1	C	16,816.11
MLSRTK710X500V	710-500	1346	350	350	150.90	1	C	19,070.41
MLSRTK710X560V	710-560	1410	350	350	163.60	1	C	21,584.16
MLSETHK710V	710-710	1560	350	350	196.40	1	C	27,266.23
MLSETHK800V	800-800	1652	350	350	258.90	1	C	POA
MLSETHK900V	900-900	1850	400	400	366.30	1	C	POA
MLSETHK1000V	1000-1000	1955	400	400	474.10	1	C	POA
MLSETHK1200V	1200-1200	2155	400	400	739.60	1	C	POA

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Reducing and Equal Tee | Short Spigot Machined

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- d280x63 - 500x225





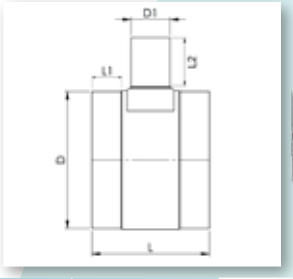
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
MSSRTK280X63N	280-63	266	70	150	6.50	1	C	1,401.78
MSSRTK280X75N	280-75	281	70	150	6.90	1	C	1,426.74
MSSRTK280X90N	280-90	296	70	150	7.50	1	C	1,466.95
MSSRTK280X110N	280-110	316	70	150	8.20	1	C	1,515.07
MSSRTK280X125N	280-125	331	70	150	8.80	1	C	1,563.74
MSSRTK280X140N	280-140	346	70	150	9.40	1	C	1,784.85
MSSRTK280X160N	280-160	367	70	150	10.30	1	C	1,801.28
MSSRTK280X180N	280-180	387	70	150	11.20	1	C	2,706.77
MSSRTK280X200N	280-200	407	70	150	12.10	1	C	2,430.90
MSSRTK280X225N	280-225	434	70	150	13.40	1	C	2,656.23
MSSRTK315X110N	315-110	316	70	150	10.10	1	C	1,951.04
MSSRTK315X125N	315-125	331	70	150	10.70	1	C	2,013.79
MSSRTK315X140N	315-140	346	70	150	11.40	1	C	2,085.62
MSSRTK315X160N	315-160	367	70	150	12.40	1	C	2,161.19
MSSRTK315X180N	315-180	387	70	150	13.40	1	C	2,241.55
MSSRTK315X200N	315-200	407	70	150	14.50	1	C	2,351.16
MSSRTK315X225N	315-225	434	70	150	16.00	1	C	2,811.54
MSSRTK315X250N	315-250	457	70	250	18.90	1	C	2,996.03
MSSRTK315X75N	315-75	281	70	150	8.60	1	C	1,421.89
MSSRTK315X90N	315-90	296	70	150	9.20	1	C	2,000.41
MSSRTK355X90N	355-90	306	75	150	11.80	1	C	1,808.56
MSSRTK355X110N	355-110	326	75	150	12.80	1	C	1,885.31
MSSRTK355X125N	355-125	341	75	150	13.60	1	C	1,945.01
MSSRTK355X140N	355-140	356	75	150	14.40	1	C	2,287.79
MSSRTK355X160N	355-160	377	75	150	15.60	1	C	2,392.55
MSSRTK355X180N	355-180	397	75	150	16.80	1	C	2,494.89
MSSRTK355X200N	355-200	417	75	150	18.00	1	C	2,602.63
MSSRTK355X225N	355-225	444	75	150	19.70	1	C	3,050.25
MSSRTK355X250N	355-250	467	75	250	22.90	1	C	3,212.84
MSSRTK355X280N	355-280	497	75	250	25.40	1	C	3,991.66
MSSRTK400X110N	400-110	326	75	150	15.90	1	C	2,260.41
MSSRTK400X125N	400-125	341	75	150	16.80	1	C	2,339.58
MSSRTK400X140N	400-140	356	75	150	17.80	1	C	2,418.14
MSSRTK400X160N	400-160	377	75	150	19.20	1	C	2,533.86
MSSRTK400X180N	400-180	397	75	150	20.50	1	C	3,053.86
MSSRTK400X200N	400-200	417	75	150	21.90	1	C	3,219.49
MSSRTK400X225N	400-225	444	75	150	23.90	1	C	3,407.66
MSSRTK400X250N	400-250	467	75	250	27.30	1	C	3,581.83
MSSRTK400X280N	400-280	497	75	250	30.10	1	C	4,375.28
MSSRTK400X315N	400-315	532	75	300	34.80	1	C	4,680.35
MSSRTK450X125N	450-125	341	75	150	20.80	1	C	2,362.12
MSSRTK450X140N	450-140	356	75	150	21.90	1	C	2,498.50
MSSRTK450X160N	450-160	377	75	150	23.50	1	C	2,921.71
MSSRTK450X180N	450-180	397	75	150	25.10	1	C	3,074.59
MSSRTK450X200N	450-200	417	75	150	26.80	1	C	3,209.16
MSSRTK450X225N	450-225	444	75	150	29.00	1	C	3,395.46
MSSRTK450X250N	450-250	467	75	250	32.70	1	C	4,051.91
MSSRTK450X280N	450-280	497	75	250	35.80	1	C	4,380.13
MSSRTK450X315N	450-315	532	75	300	41.00	1	C	5,648.59
MSSRTK450X355N	450-355	572	75	300	46.10	1	C	6,186.34
MSSRTK500X140N	500-140	356	75	150	26.70	1	C	2,989.93
MSSRTK500X160N	500-160	377	75	150	28.60	1	C	3,135.46
MSSRTK500X180N	500-180	397	75	150	30.50	1	C	3,254.85
MSSRTK500X200N	500-200	417	75	150	32.40	1	C	3,407.04
MSSRTK500X225N	500-225	444	75	150	35.10	1	C	4,534.82

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For more information visit our website www.fusiongroup.com

Reducing and Equal Tee | Short Spigot Machined - Continued

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- d500x250 - 900x900





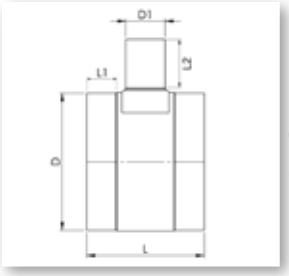
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
MSSRTK500X250N	500-250	467	75	250	39.00	1	C	4,805.84
MSSRTK500X280N	500-280	497	75	250	42.50	1	C	5,117.63
MSSRTK500X315N	500-315	532	75	300	48.20	1	C	5,445.23
MSSRTK500X355N	500-355	572	75	300	53.80	1	C	6,952.33
MSSRTK500X400N	500-400	618	75	300	60.70	1	C	7,746.41
MSSRTK560X160N	560-160	375	75	150	35.20	1	C	3,762.10
MSSRTK560X180N	560-180	395	75	150	37.40	1	C	4,619.47
MSSRTK560X200N	560-200	415	75	150	39.70	1	C	4,824.70
MSSRTK560X225N	560-225	440	75	150	42.60	1	C	5,073.12
MSSRTK560X250N	560-250	465	75	250	47.10	1	C	5,345.32
MSSRTK560X280N	560-280	495	75	250	51.20	1	C	5,716.19
MSSRTK560X315N	560-315	530	75	300	57.50	1	C	6,930.42
MSSRTK560X355N	560-355	570	75	300	63.80	1	C	7,448.06
MSSRTK560X400N	560-400	616	75	300	71.50	1	C	11,559.67
MSSRTK560X450N	560-450	666	75	300	80.60	1	C	11,669.29
MSSETHK560N	560-560	780	75	350	106.60	1	C	14,117.86
MSSRTK630X180N	630-180	395	75	150	46.70	1	C	4,784.49
MSSRTK630X200N	630-200	415	75	150	49.40	1	C	4,986.04
MSSRTK630X225N	630-225	440	75	150	52.90	1	C	5,241.81
MSSRTK630X250N	630-250	465	75	250	58.10	1	C	5,492.10
MSSRTK630X280N	630-280	495	75	250	62.80	1	C	8,158.66
MSSRTK630X315N	630-315	530	75	300	69.90	1	C	8,393.77
MSSRTK630X355N	630-355	570	75	300	77.20	1	C	8,966.74
MSSRTK630X400N	630-400	616	75	300	85.90	1	C	9,952.66
MSSRTK630X450N	630-450	666	75	300	96.10	1	C	15,796.70
MSSRTK630X500N	630-500	716	75	350	110.10	1	C	15,338.82
MSSETHK630N	630-630	850	75	350	143.10	1	C	17,813.54
MSSRTK710X180N	710-180	395	75	150	58.50	1	C	7,577.72
MSSRTK710X200N	710-200	415	75	150	61.80	1	C	7,835.91
MSSRTK710X225N	710-225	440	75	150	66.10	1	C	8,087.46
MSSRTK710X250N	710-250	465	75	250	72.00	1	C	8,565.44
MSSRTK710X280N	710-280	495	75	250	77.70	1	C	8,972.84
MSSRTK710X315N	710-315	533	75	300	86.20	1	C	10,049.45
MSSRTK710X355N	710-355	570	75	300	94.20	1	C	10,769.82
MSSRTK710X400N	710-400	616	75	300	104.30	1	C	11,777.03
MSSRTK710X450N	710-450	666	75	300	115.90	1	C	13,664.77
MSSRTK710X500N	710-500	716	75	350	131.30	1	C	16,007.40
MSSRTK710X560N	710-560	780	75	350	148.40	1	C	18,620.44
MSSETHK710N	710-710	930	75	350	193.60	1	C	26,980.65
MSSETHK800N	800-800	1032	80	350	267.30	1	C	POA
MSSETHK900N	900-900	1150	80	400	370.80	1	C	POA

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For more information visit our website www.fusiongroup.com

Reducing and Equal Tee | Short Spigot Machined - Continued

Specification

- PE100
- SDR 17 - Water PN10 / (Gas 5 Bar - Upon request)
- d280x63 - 500x225





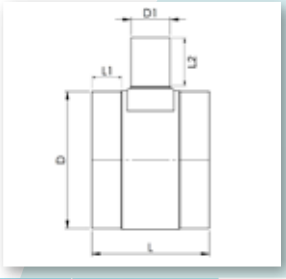
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 5 Bar - Upon request)								
MSSRTK280X63V	280-63	266	70	150	4.70	1	C	1,393.88
MSSRTK280X75V	280-75	281	70	150	5.10	1	C	1,426.74
MSSRTK280X90V	280-90	296	70	150	5.50	1	C	1,466.95
MSSRTK280X110V	280-110	316	70	150	6.00	1	C	1,515.07
MSSRTK280X125V	280-125	331	70	150	6.50	1	C	1,563.74
MSSRTK280X140V	280-140	346	70	150	6.90	1	C	1,717.87
MSSRTK280X160V	280-160	367	70	150	7.60	1	C	1,801.28
MSSRTK280X180V	280-180	387	70	150	8.30	1	C	2,517.98
MSSRTK280X200V	280-200	407	70	150	9.00	1	C	2,338.96
MSSRTK280X225V	280-225	434	70	150	10.0	1	C	2,656.23
MSSRTK315X75V	315-75	281	70	150	6.20	1	C	1,421.89
MSSRTK315X90V	315-90	296	70	150	6.70	1	C	1,863.40
MSSRTK315X110V	315-110	316	70	150	7.40	1	C	1,951.04
MSSRTK315X125V	315-125	331	70	150	7.80	1	C	2,013.79
MSSRTK315X140V	315-140	346	70	150	8.40	1	C	1,956.52
MSSRTK315X160V	315-160	367	70	150	9.10	1	C	2,161.19
MSSRTK315X180V	315-180	387	70	150	9.90	1	C	2,241.55
MSSRTK315X200V	315-200	407	70	150	10.70	1	C	2,351.16
MSSRTK315X225V	315-225	434	70	150	11.80	1	C	2,811.54
MSSRTK315X250V	315-250	457	70	250	13.90	1	C	2,996.03
MSSRTK355X90V	355-90	306	75	150	8.60	1	C	1,808.56
MSSRTK355X110V	355-110	326	75	150	9.40	1	C	1,885.31
MSSRTK355X125V	355-125	341	75	150	10.00	1	C	1,945.01
MSSRTK355X140V	355-140	356	75	150	10.60	1	C	2,226.29
MSSRTK355X160V	355-160	377	75	150	11.50	1	C	2,392.55
MSSRTK355X180V	355-180	397	75	150	12.40	1	C	2,494.89
MSSRTK355X200V	355-200	417	75	150	13.30	1	C	2,602.63
MSSRTK355X225V	355-225	444	75	150	14.60	1	C	3,050.25
MSSRTK355X250V	355-250	467	75	250	16.80	1	C	3,212.84
MSSRTK355X280V	355-280	497	75	250	18.70	1	C	3,991.66
MSSRTK400X110V	400-110	326	75	150	11.50	1	C	2,260.41
MSSRTK400X125V	400-125	341	75	150	12.20	1	C	2,339.58
MSSRTK400X140V	400-140	356	75	150	12.90	1	C	2,418.14
MSSRTK400X160V	400-160	377	75	150	13.90	1	C	2,533.86
MSSRTK400X180V	400-180	397	75	150	15.00	1	C	3,053.86
MSSRTK400X200V	400-200	417	75	150	16.00	1	C	3,219.49
MSSRTK400X225V	400-225	444	75	150	17.50	1	C	3,407.66
MSSRTK400X250V	400-250	467	75	250	19.90	1	C	3,581.83
MSSRTK400X280V	400-280	497	75	250	22.00	1	C	4,375.28
MSSRTK400X315V	400-315	532	75	300	25.40	1	C	4,680.35
MSSRTK450X125V	450-125	341	75	150	15.00	1	C	2,362.12
MSSRTK450X140V	450-140	356	75	150	15.80	1	C	2,498.50
MSSRTK450X160V	450-160	377	75	150	17.00	1	C	2,873.66
MSSRTK450X180V	450-180	397	75	150	18.20	1	C	3,074.59
MSSRTK450X200V	450-200	417	75	150	19.40	1	C	3,209.16
MSSRTK450X225V	450-225	444	75	150	21.10	1	C	3,395.46
MSSRTK450X250V	450-250	467	75	250	23.70	1	C	4,051.91
MSSRTK450X280V	450-280	497	75	250	26.10	1	C	4,380.13
MSSRTK450X315V	450-315	532	75	300	29.80	1	C	5,436.08
MSSRTK450X355V	450-355	572	75	300	33.60	1	C	6,186.34
MSSRTK500X140V	500-140	356	75	150	19.30	1	C	2,989.93
MSSRTK500X160V	500-160	377	75	150	20.70	1	C	3,135.46
MSSRTK500X180V	500-180	397	75	150	22.10	1	C	3,254.85
MSSRTK500X200V	500-200	417	75	150	23.50	1	C	3,407.04
MSSRTK500X225V	500-225	444	75	150	25.50	1	C	4,534.82

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Reducing and Equal Tee | Short Spigot Machined - Continued

Specification

- PE100
- SDR 17 - Water PN10 / (Gas 5 Bar - Upon request)
- d500x250 - 1200x1200





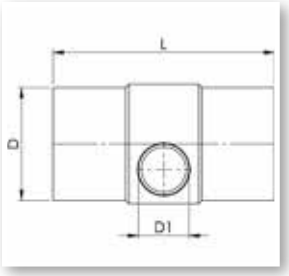
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 5 Bar - Upon request)								
MSSRTK500X250V	500-250	467	75	250	28.30	1	C	4,805.84
MSSRTK500X280V	500-280	497	75	250	31.00	1	C	5,117.63
MSSRTK500X315V	500-315	532	75	300	35.10	1	C	5,445.23
MSSRTK500X355V	500-355	572	75	300	39.20	1	C	6,952.33
MSSRTK500X400V	500-400	618	75	300	44.30	1	C	7,746.41
MSSRTK560X160V	560-160	375	75	150	25.30	1	C	3,762.10
MSSRTK560X180V	560-180	395	75	150	27.00	1	C	4,611.57
MSSRTK560X200V	560-200	415	75	150	28.70	1	C	4,792.39
MSSRTK560X225V	560-225	440	75	150	30.90	1	C	5,073.12
MSSRTK560X250V	560-250	465	75	250	34.10	1	C	5,345.32
MSSRTK560X280V	560-280	495	75	250	37.20	1	C	5,716.19
MSSRTK560X315V	560-315	530	75	300	41.70	1	C	6,669.17
MSSRTK560X355V	560-355	570	75	300	46.40	1	C	7,448.06
MSSRTK560X400V	560-400	616	75	300	52.10	1	C	10,561.62
MSSRTK560X450V	560-450	666	75	300	58.80	1	C	11,669.29
MSSETHK560V	560-560	780	75	350	77.50	1	C	14,117.86
MSSRTK630X180V	630-180	395	75	150	33.60	1	C	4,784.49
MSSRTK630X200V	630-200	415	75	150	35.60	1	C	4,986.04
MSSRTK630X225V	630-225	440	75	150	38.20	1	C	5,241.81
MSSRTK630X250V	630-250	465	75	250	41.90	1	C	5,492.10
MSSRTK630X280V	630-280	495	75	250	45.50	1	C	7,645.94
MSSRTK630X315V	630-315	530	75	300	50.60	1	C	8,364.51
MSSRTK630X355V	630-355	570	75	300	56.00	1	C	8,966.74
MSSRTK630X400V	630-400	616	75	300	62.40	1	C	9,952.66
MSSRTK630X450V	630-450	666	75	300	70.00	1	C	14,505.78
MSSRTK630X500V	630-500	716	75	350	80.10	1	C	15,338.82
MSSETHK630V	630-630	850	75	350	104.00	1	C	17,813.54
MSSRTK710X180V	710-180	395	75	150	41.90	1	C	7,292.13
MSSRTK710X200V	710-200	415	75	150	44.40	1	C	7,540.62
MSSRTK710X225V	710-225	440	75	150	47.50	1	C	7,782.94
MSSRTK710X250V	710-250	465	75	250	51.80	1	C	8,243.32
MSSRTK710X280V	710-280	495	75	250	56.00	1	C	8,634.91
MSSRTK710X315V	710-315	533	75	300	62.20	1	C	9,670.68
MSSRTK710X355V	710-355	570	75	300	68.10	1	C	10,363.67
MSSRTK710X400V	710-400	616	75	300	75.50	1	C	11,333.16
MSSRTK710X450V	710-450	666	75	300	84.10	1	C	13,150.25
MSSRTK710X500V	710-500	716	75	350	95.30	1	C	15,403.37
MSSRTK710X560V	710-560	780	75	350	107.90	1	C	17,918.30
MSSETHK710V	710-710	930	75	350	140.60	1	C	25,965.54
MSSETHK800V	800-800	1032	80	350	191.20	1	C	POA
MSSETHK900V	900-900	1130	80	400	266.80	1	C	POA
MSSETHK1000V	1000-1000	1235	80	400	351.50	1	C	POA
MSSETHK1200V	1200-1200	1435	80	400	563.00	1	C	POA

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Reducing Tee Eccentric Level Invert | Machined

Specification

- PE100
- SDR 11 - Water PN16 (Gas 10 Bar - Upon request)
- d280x63 - 500x225





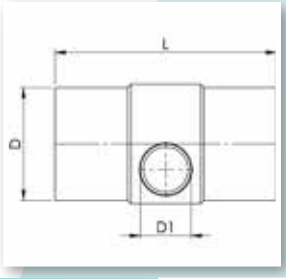
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)						
MLIRTHK280X63N	280-63	690	15.40	1	C	2,833.45
MLIRTHK280X75N	280-75	705	15.90	1	C	2,877.26
MLIRTHK280X90N	280-90	720	16.40	1	C	2,902.22
MLIRTK280X110N	280-110	740	17.20	1	C	2,994.78
MLIRTK280X125N	280-125	755	17.70	1	C	3,050.25
MLIRTK280X140N	280-140	770	18.30	1	C	3,104.40
MLIRTK280X160N	280-160	790	19.20	1	C	3,203.69
MLIRTK280X180N	280-180	810	20.10	1	C	3,607.41
MLIRTK280X200N	280-200	830	21.00	1	C	3,737.69
MLIRTK280X225N	280-225	855	22.30	1	C	3,818.12
MLIRTHK315X75N	315-75	805	22.40	1	C	3,389.98
MLIRTHK315X90N	315-90	820	23.00	1	C	3,439.35
MLIRTK315X110N	315-110	840	23.90	1	C	3,527.06
MLIRTK315X125N	315-125	855	24.60	1	C	3,617.74
MLIRTK315X140N	315-140	870	25.30	1	C	3,697.55
MLIRTK315X160N	315-160	890	26.20	1	C	3,791.29
MLIRTK315X180N	315-180	910	27.20	1	C	3,887.52
MLIRTK315X200N	315-200	930	28.30	1	C	4,009.34
MLIRTK315X225N	315-225	955	29.70	1	C	4,109.80
MLIRTK315X250N	315-250	980	32.80	1	C	4,262.61
MLIRTHK355X90N	355-90	820	29.20	1	C	3,919.83
MLIRTK355X110N	355-110	840	30.20	1	C	4,048.30
MLIRTK355X125N	355-125	855	31.00	1	C	4,121.38
MLIRTK355X140N	355-140	870	31.90	1	C	4,288.20
MLIRTK355X160N	355-160	890	33.00	1	C	4,339.37
MLIRTK355X180N	355-180	910	34.20	1	C	4,890.50
MLIRTK355X200N	355-200	930	35.40	1	C	5,037.21
MLIRTK355X225N	355-225	955	37.00	1	C	5,143.77
MLIRTK355X250N	355-250	980	40.30	1	C	5,350.80
MLIRTK355X280N	355-280	1010	42.90	1	C	5,577.38
MLIRTK400X110N	400-110	840	37.80	1	C	6,389.69
MLIRTK400X125N	400-125	855	38.80	1	C	6,401.27
MLIRTK400X140N	400-140	870	39.80	1	C	7,560.11
MLIRTK400X160N	400-160	890	41.10	1	C	7,616.75
MLIRTK400X180N	400-180	910	42.50	1	C	8,136.13
MLIRTK400X200N	400-200	930	43.90	1	C	8,403.48
MLIRTK400X225N	400-225	955	45.70	1	C	8,663.48
MLIRTK400X250N	400-250	980	49.20	1	C	8,893.11
MLIRTK400X280N	400-280	1010	52.00	1	C	9,065.40
MLIRTK400X315N	400-315	1045	56.80	1	C	9,663.40
MLIRTK450X125N	450-125	855	48.60	1	C	8,327.35
MLIRTK450X140N	450-140	870	49.80	1	C	8,497.84
MLIRTK450X160N	450-160	890	51.40	1	C	8,927.15
MLIRTK450X180N	450-180	910	53.00	1	C	9,273.06
MLIRTK450X200N	450-200	930	54.60	1	C	9,464.28
MLIRTK450X225N	450-225	955	56.70	1	C	9,941.08
MLIRTK450X250N	450-250	980	60.50	1	C	9,892.34
MLIRTK450X280N	450-280	1010	63.60	1	C	10,417.26
MLIRTK450X315N	450-315	1045	68.80	1	C	8,779.82
MLIRTK450X355N	450-355	1085	74.00	1	C	9,660.98
MLIRTK500X140N	500-140	970	67.50	1	C	8,429.06
MLIRTK500X160N	500-160	990	69.40	1	C	8,814.55
MLIRTK500X180N	500-180	1010	71.30	1	C	9,018.53
MLIRTK500X200N	500-200	1030	73.20	1	C	9,232.29
MLIRTK500X225N	500-225	1055	75.70	1	C	9,475.23

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Reducing Tee Eccentric Level Invert | Machined Continued

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- d500x250 - 710x560





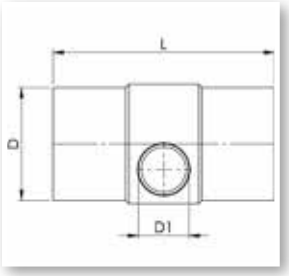
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)						
MLIRTK500X250N	500-250	1080	79.80	1	C	11,881.17
MLIRTK500X280N	500-280	1110	83.30	1	C	12,203.91
MLIRTK500X315N	500-315	1145	88.90	1	C	12,528.46
MLIRTK500X355N	500-355	1185	94.60	1	C	13,080.84
MLIRTK500X400N	500-400	1230	101.50	1	C	13,840.81
MLIRTK560X160N	560-160	1020	88.90	1	C	10,814.34
MLIRTK560X180N	560-180	1045	91.80	1	C	11,125.50
MLIRTK560X200N	560-200	1065	94.10	1	C	11,419.62
MLIRTK560X225N	560-225	1085	96.50	1	C	11,610.84
MLIRTK560X250N	560-250	1110	101.10	1	C	12,052.28
MLIRTK560X280N	560-280	1140	105.10	1	C	12,674.62
MLIRTK560X315N	560-315	1180	112.00	1	C	15,980.64
MLIRTK560X355N	560-355	1225	118.90	1	C	16,779.57
MLIRTK560X400N	560-400	1270	126.50	1	C	17,502.37
MLIRTK560X450N	560-450	1315	135.20	1	C	18,157.64
MLIRTK630X180N	630-180	1045	115.00	1	C	14,690.90
MLIRTK630X200N	630-200	1065	117.80	1	C	15,030.08
MLIRTK630X225N	630-225	1085	120.60	1	C	15,375.91
MLIRTK630X250N	630-250	1110	125.80	1	C	15,577.47
MLIRTK630X280N	630-280	1140	130.50	1	C	16,192.52
MLIRTK630X315N	630-315	1180	138.20	1	C	16,610.88
MLIRTK630X355N	630-355	1225	146.00	1	C	21,523.29
MLIRTK630X400N	630-400	1270	154.50	1	C	23,763.58
MLIRTK630X450N	630-450	1315	163.90	1	C	25,134.93
MLIRTK630X500N	630-500	1370	178.80	1	C	26,387.57
MLIRTK710X180N	710-180	1045	146.30	1	C	19,197.08
MLIRTK710X200N	710-200	1065	149.80	1	C	19,935.76
MLIRTK710X225N	710-225	1085	153.30	1	C	20,767.55
MLIRTK710X250N	710-250	1110	159.30	1	C	21,631.03
MLIRTK710X280N	710-280	1140	165.10	1	C	22,278.95
MLIRTK710X315N	710-315	1180	174.20	1	C	23,203.37
MLIRTK710X355N	710-355	1225	183.50	1	C	24,269.65
MLIRTK710X400N	710-400	1270	193.40	1	C	25,724.40
MLIRTK710X450N	710-450	1315	204.00	1	C	26,752.34
MLIRTK710X500N	710-500	1370	220.50	1	C	28,358.10
MLIRTK710X560N	710-560	1430	237.20	1	C	30,060.09

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Reducing Tee Eccentric Level Invert | Machined Continued

Specification

- PE100
- SDR 17 - Water PN10 (Gas 5 Bar - Upon request)
- d280x63 - 500x225





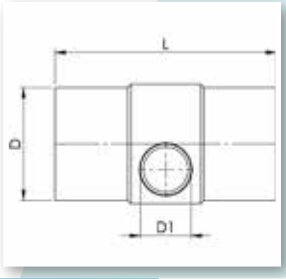
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 5 Bar - Upon request)						
MLIRTHK280X63V	280-63	690	10.90	1	C	2,720.15
MLIRTHK280X75V	280-75	705	11.30	1	C	2,762.17
MLIRTHK280X90V	280-90	720	11.70	1	C	2,786.58
MLIRTK280X110V	280-110	740	12.20	1	C	2,874.21
MLIRTK280X125V	280-125	755	12.70	1	C	2,928.43
MLIRTK280X140V	280-140	770	13.10	1	C	2,979.60
MLIRTK280X160V	280-160	790	13.80	1	C	3,075.21
MLIRTK280X180V	280-180	810	14.40	1	C	3,463.06
MLIRTK280X200V	280-200	830	15.20	1	C	3,587.93
MLIRTK280X225V	280-225	855	16.10	1	C	3,681.11
MLIRTHK315X75V	315-75	805	15.80	1	C	3,254.23
MLIRTHK315X90V	315-90	820	16.20	1	C	3,302.35
MLIRTK315X110V	315-110	840	16.90	1	C	3,385.75
MLIRTK315X125V	315-125	855	17.40	1	C	3,473.46
MLIRTK315X140V	315-140	870	17.90	1	C	3,549.59
MLIRTK315X160V	315-160	890	18.60	1	C	3,639.65
MLIRTK315X180V	315-180	910	19.40	1	C	3,732.21
MLIRTK315X200V	315-200	930	20.20	1	C	3,857.71
MLIRTK315X225V	315-225	955	21.20	1	C	3,957.55
MLIRTK315X250V	315-250	980	23.50	1	C	4,091.50
MLIRTHK355X90V	355-90	820	20.60	1	C	3,763.27
MLIRTK355X110V	355-110	840	21.40	1	C	3,885.72
MLIRTK355X125V	355-125	855	22.00	1	C	3,956.37
MLIRTK355X140V	355-140	870	22.60	1	C	4,115.90
MLIRTK355X160V	355-160	890	23.50	1	C	4,165.82
MLIRTK355X180V	355-180	910	24.40	1	C	4,694.98
MLIRTK355X200V	355-200	930	25.30	1	C	4,836.28
MLIRTK355X225V	355-225	955	26.50	1	C	4,937.99
MLIRTK355X250V	355-250	980	28.90	1	C	5,137.11
MLIRTK355X280V	355-280	1010	30.80	1	C	5,353.85
MLIRTK400X110V	400-110	840	26.60	1	C	6,238.06
MLIRTK400X125V	400-125	855	27.30	1	C	6,304.41
MLIRTK400X140V	400-140	870	28.00	1	C	7,050.99
MLIRTK400X160V	400-160	890	29.00	1	C	7,490.70
MLIRTK400X180V	400-180	910	30.00	1	C	7,664.80
MLIRTK400X200V	400-200	930	31.10	1	C	8,007.03
MLIRTK400X225V	400-225	955	32.40	1	C	7,887.71
MLIRTK400X250V	400-250	980	34.90	1	C	8,582.50
MLIRTK400X280V	400-280	1010	37.00	1	C	8,786.54
MLIRTK400X315V	400-315	1045	40.50	1	C	8,792.58
MLIRTK450X125V	450-125	855	34.10	1	C	8,095.36
MLIRTK450X140V	450-140	870	35.00	1	C	8,270.15
MLIRTK450X160V	450-160	890	36.20	1	C	8,726.85
MLIRTK450X180V	450-180	910	37.30	1	C	8,712.84
MLIRTK450X200V	450-200	930	38.50	1	C	8,986.22
MLIRTK450X225V	450-225	955	40.10	1	C	9,452.07
MLIRTK450X250V	450-250	980	42.70	1	C	9,478.91
MLIRTK450X280V	450-280	1010	45.10	1	C	9,976.37
MLIRTK450X315V	450-315	1045	48.80	1	C	8,516.14
MLIRTK450X355V	450-355	1085	52.70	1	C	9,625.06
MLIRTK500X140V	500-140	970	47.30	1	C	8,175.72
MLIRTK500X160V	500-160	990	48.70	1	C	8,549.63
MLIRTK500X180V	500-180	1010	50.10	1	C	8,748.13
MLIRTK500X200V	500-200	1030	51.50	1	C	8,955.79
MLIRTK500X225V	500-225	1055	53.40	1	C	9,190.83

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Reducing Tee Eccentric Level Invert | Machined Continued

Specification

- PE100
- SDR 17 - Water PN10 (Gas 5 Bar - Upon request)
- d500x250 - 710x560





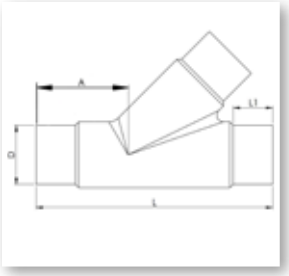
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 5 Bar - Upon request)						
MLIRTK500X250V	500-250	1080	56.20	1	C	11,138.26
MLIRTK500X280V	500-280	1110	58.90	1	C	12,203.91
MLIRTK500X315V	500-315	1145	62.90	1	C	12,528.46
MLIRTK500X355V	500-355	1185	67.20	1	C	13,080.84
MLIRTK500X400V	500-400	1230	72.30	1	C	13,840.81
MLIRTK560X160V	560-160	1020	62.30	1	C	10,490.34
MLIRTK560X180V	560-180	1045	64.50	1	C	10,791.80
MLIRTK560X200V	560-200	1065	66.20	1	C	11,077.39
MLIRTK560X225V	560-225	1085	67.90	1	C	11,262.51
MLIRTK560X250V	560-250	1110	71.10	1	C	11,691.19
MLIRTK560X280V	560-280	1140	74.10	1	C	12,358.60
MLIRTK560X315V	560-315	1180	79.10	1	C	15,939.25
MLIRTK560X355V	560-355	1225	84.20	1	C	16,770.42
MLIRTK560X400V	560-400	1270	89.90	1	C	17,502.37
MLIRTK560X450V	560-450	1315	96.40	1	C	18,157.64
MLIRTK630X180V	630-180	1045	80.50	1	C	14,325.51
MLIRTK630X200V	630-200	1065	82.50	1	C	14,780.97
MLIRTK630X225V	630-225	1085	84.60	1	C	15,375.91
MLIRTK630X250V	630-250	1110	88.20	1	C	15,577.47
MLIRTK630X280V	630-280	1140	91.70	1	C	15,983.07
MLIRTK630X315V	630-315	1180	97.20	1	C	16,610.88
MLIRTK630X355V	630-355	1225	103.00	1	C	20,877.17
MLIRTK630X400V	630-400	1270	109.10	1	C	23,641.77
MLIRTK630X450V	630-450	1315	116.10	1	C	25,010.68
MLIRTK630X500V	630-500	1370	127.10	1	C	26,387.57
MLIRTK710X180V	710-180	1045	102.40	1	C	18,620.99
MLIRTK710X200V	710-200	1065	105.00	1	C	19,337.76
MLIRTK710X225V	710-225	1085	107.50	1	C	20,145.22
MLIRTK710X250V	710-250	1110	111.80	1	C	20,981.93
MLIRTK710X280V	710-280	1140	116.00	1	C	21,610.37
MLIRTK710X315V	710-315	1180	122.70	1	C	22,506.71
MLIRTK710X355V	710-355	1225	129.50	1	C	23,541.93
MLIRTK710X400V	710-400	1270	136.70	1	C	24,953.48
MLIRTK710X450V	710-450	1315	144.40	1	C	25,950.29
MLIRTK710X500V	710-500	1370	156.50	1	C	27,508.00
MLIRTK710X560V	710-560	1430	169.00	1	C	29,158.90

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45º Angle Branch Tee

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR17 - Water PN10 / Gas 6 Bar
- d63 - 250 x 45



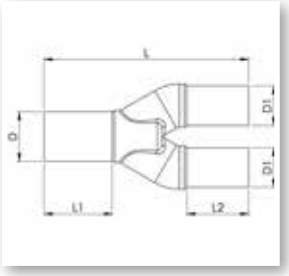


Code	D	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
ABTHK63X45N	63	254	63	164	0.46	22	C	34.81
ABTHK75X45N	75	284	70	185	0.71	20	C	52.97
ABTHK90X45N	90	321	79	213	1.14	11	B	82.02
ABTHK110X45N	110	376	82	251	1.98	9	C	117.17
ABTHK125X45N	125	412	87	277	2.93	5	C	165.29
ABTHK140X45N	140	500	100	-	4.93	42	C	304.30
ABTHK160X45N	160	531	98	356	6.17	26	C	289.61
ABTHK180X45N	180	578	105	394	8.61	20	C	417.66
ABTHK200X45N	200	630	112	430	11.43	13	C	607.43
ABTHK225X45N	225	692	120	475	15.95	10	C	719.47
ABTHK250X45N	250	729	129	507	19.68	8	C	1,031.26
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar								
ABTHK63X45V	63	254	63	164	0.37	22	C	31.41
ABTHK75X45V	75	284	70	185	0.54	20	C	47.70
ABTHK90X45V	90	321	79	213	0.83	11	C	73.91
ABTHK110X45V	110	376	82	251	1.45	9	B	105.53
ABTHK125X45V	125	412	87	277	2.13	5	C	148.72
ABTHK140X45V	140	500	100	-	4.17	42	C	272.83
ABTHK160X45V	160	531	98	356	4.56	26	C	260.76
ABTHK180X45V	180	578	105	394	6.39	20	C	364.97
ABTHK200X45V	200	630	112	430	8.35	13	C	530.75
ABTHK225X45V	225	692	120	475	11.86	10	C	647.43
ABTHK250X45V	250	729	129	507	15.48	8	C	874.02

Y Piece

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- d32x25 - 50x40





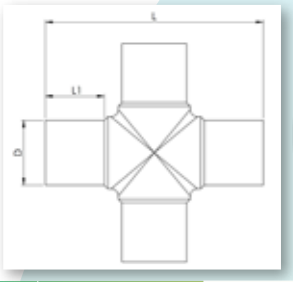
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
YPHK32X25N	32-25	156	44	41	0.07	120	C	40.98
YPHK40X32N	40-32	165	50	44	0.11	100	C	44.10
YPHK50X40N	50-40	186	55	50	0.18	50	C	46.25

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Cross Piece

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- SDR 7.4 - Water PN25
- d63-355





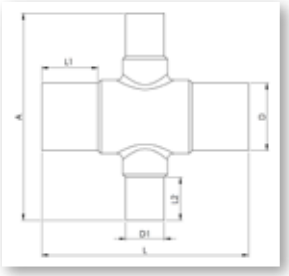
Code	D	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar							
LSCRHK63X63N	63	229	68	-	1	C	54.63
LSCRHK75X75N	75	256	72	-	1	C	81.95
LSCRHK90X90N	90	303	82	-	1	C	125.91
LSCRHK110X110N	110	336	92	-	1	C	188.86
LSCRHK125X125N	125	350	89	-	1	C	283.30
LSCRHK140X140N	140	390	96	-	1	C	419.67
LSCRHK160X160N	160	423	104	-	1	C	476.39
LSCRHK180N	180	451	107	-	1	C	583.37
LSCRHK200N	200	501	117	-	1	C	860.29
LSCRHK225N	225	538	121	-	1	C	986.20
LSCRHK250N	250	596	131	-	1	C	1,720.58
LSCRHK280N	280	651	127	-	1	C	2,643.82
LSCRHK315N	315	703	152	-	1	C	2,706.77
LSCRHK355N	355	800	165	-	1	C	4,091.64
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar							
LSCRHK63X63V	63	229	68	-	1	C	48.88
LSCRHK75X75V	75	256	72	-	1	C	73.49
LSCRHK90X90V	90	303	82	-	1	C	113.43
LSCRHK110X110V	110	336	92	-	1	C	170.01
LSCRHK125X125V	125	350	89	-	1	C	256.05
LSCRHK140X140V	140	390	96	-	1	C	377.73
LSCRHK160X160V	160	423	104	-	1	C	432.29
LSCRHK180V	180	451	107	-	1	C	526.73
LSCRHK200V	200	501	117	-	1	C	782.70
LSCRHK225V	225	538	121	-	1	C	944.25
LSCRHK250V	250	596	131	-	1	C	1,542.25
LSCRHK280V	280	651	127	-	1	C	2,392.07
LSCRHK315V	315	703	152	-	1	C	2,475.96
LSCRHK355V	355	800	165	-	1	C	3,357.26
PE100 I SDR 7.4 I Water PN 25							
LSCRHK63X63T	63	229	68	-	1	C	91.59
LSCRHK75X75T	75	256	72	-	1	C	143.94
LSCRHK90X90T	90	303	82	-	1	C	208.69
LSCRHK110X110T	110	336	92	-	1	C	311.79
LSCRHK125X125T	125	350	89	-	1	C	515.63
LSCRHK140X140T	140	390	96	-	1	C	724.26
LSCRHK160X160T	160	423	104	-	1	C	983.22
LSCRHK180T	180	451	107	-	1	C	1,654.64
LSCRHK200T	200	501	117	-	1	C	2,230.18
LSCRHK225T	225	538	121	-	1	C	2,877.61
LSCRHK250T	250	596	131	-	1	C	4,508.26
LSCRHK280T	280	651	127	-	1	C	6,234.87
LSCRHK315T	315	703	152	-	1	C	7,433.85

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Reduced Cross Piece

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- d125-90





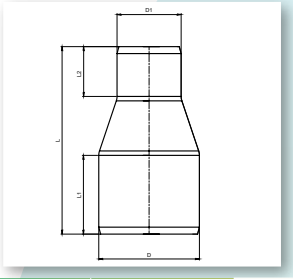
Code	D	L	L1	L2	L3	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar									
LSCRHK125X90N	125-90	351	92	83	343	2.140	60	C	293.77

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Reducer

Specification

- PE100
- SDR 11- Water PN16 / Gas 10 Bar
- d25x20 - 200x180





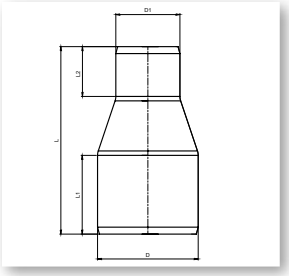
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
SPRHK25X20N	25-20	120	41	41	0.03	100	C	3.47
SPRHK32X20N	32-20	115	44	41	0.03	50	C	3.74
SPRHK32X25N	32-25	130	44	41	0.03	50	C	3.74
SPRHK40X20N	40-20	94	45	36	0.03	1	C	15.32
SPRHK40X25N	40-25	130	49	41	0.04	50	C	5.41
SPRHK40X32N	40-32	130	49	44	0.05	50	C	5.41
SPRHK50X25N	50-25	140	55	41	0.07	40	C	5.75
SPRHK50X32N	50-32	140	55	44	0.07	40	C	6.38
SPRHK50X40N	50-40	140	55	49	0.08	40	C	6.38
SPRHK63X25N	63-25	143	63	41	0.11	20	C	8.94
SPRHK63X32N	63-32	150	63	44	0.11	20	C	8.94
SPRHK63X40N	63-40	150	63	49	0.12	20	C	8.94
SPRHK63X50N	63-50	150	63	55	0.14	20	C	8.94
SPRHK75X32N	75-32	170	70	44	0.17	40	C	13.66
SPRHK75X40N	75-40	170	70	49	0.17	40	C	13.66
SPRHK75X50N	75-50	175	70	55	0.19	40	C	13.66
SPRHK75X63N	75-63	175	70	63	0.21	40	C	13.66
SPRHK90X50N	90-50	190	79	55	0.30	36	C	18.93
SPRHK90X63N	90-63	196	79	63	0.33	36	A	18.93
SPRHK90X75N	90-75	200	79	70	0.39	36	C	18.93
SPRHK110X50N	110-50	176	88	57	0.46	30	C	25.17
SPRHK110X63N	110-63	214	82	63	0.50	30	C	25.17
SPRHK110X75N	110-75	216	82	70	0.54	30	B	25.17
SPRHK110X90N	110-90	213	82	79	0.60	30	B	25.17
SPRHK125X63N	125-63	195	87	63	0.62	30	B	30.37
SPRHK125X75N	125-75	215	87	70	0.65	30	C	30.37
SPRHK125X90N	125-90	222	87	79	0.74	30	B	30.37
SPRHK125X110N	125-110	222	87	82	0.86	18	B	30.37
SPRHK140X75N	140-75	225	92	70	0.85	16	C	43.61
SPRHK140X90N	140-90	225	92	79	0.84	16	B	43.61
SPRHK140X110N	140-110	233	92	82	1.02	16	C	43.61
SPRHK140X125N	140-125	225	92	87	1.12	16	C	43.61
SPRHK160X90N	160-90	245	98	79	1.24	16	A	58.38
SPRHK160X110N	160-110	250	98	82	1.31	16	B	58.38
SPRHK160X125N	160-125	250	98	87	1.46	16	C	58.38
SPRHK160X140N	160-140	245	98	92	1.45	16	C	58.38
SPRHK180X63N	180-63	226	107	68	1.31	6	C	76.41
SPRHK180X90N	180-90	245	106	79	1.50	8	B	110.79
SPRHK180X110N	180-110	255	105	82	1.62	6	C	64.69
SPRHK180X125N	180-125	255	105	87	1.67	6	B	66.63
SPRHK180X140N	180-140	250	105	92	1.82	6	C	69.40
SPRHK180X160N	180-160	255	105	98	2.08	6	C	73.15
SPRHK200X90N	200-90	253	116	83	1.87	6	C	101.92
SPRHK200X110N	200-110	275	112	82	2.16	8	B	85.00
SPRHK200X140N	200-140	275	112	92	2.36	8	C	85.00
SPRHK200X160N	200-160	270	112	98	2.38	8	B	85.00
SPRHK200X180N	200-180	275	112	105	2.70	8	C	85.00

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Reducer - Continued

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar up to 400mm
- SDR 11 - Water PN16 / Gas 10 Bar sizes above 400mm upon request
- d225x110 - 630x560





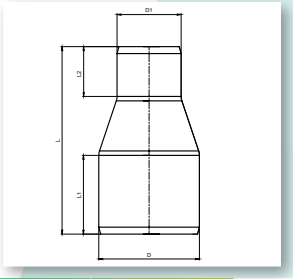
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar								
SPRHK225X110N	225-110	295	120	82	2.86	6	B	136.45
SPRHK225X160N	225-160	280	120	98	3.06	6	B	136.45
SPRHK225X180N	225-180	280	120	105	3.45	5	C	136.45
SPRHK225X200N	225-200	300	120	112	3.78	5	C	136.45
SPRHK250X160N	250-160	294	129	98	3.60	2	C	195.80
SPRHK250X180N	250-180	305	129	105	4.24	2	B	195.80
SPRHK250X200N	250-200	310	129	112	4.43	2	B	195.80
SPRHK250X225N	250-225	305	129	120	4.75	2	C	195.80
SPRHK280X180N	280-180	348	139	105	5.34	2	C	243.36
SPRHK280X200N	280-200	348	139	112	5.54	2	C	243.36
SPRHK280X225N	280-225	336	139	120	6.00	2	C	243.36
SPRHK280X250N	280-250	348	139	129	6.97	2	C	243.36
SPRHK315X200N	315-200	330	160	120	6.50	1	C	833.04
SPRHK315X225N	315-225	375	150	120	7.75	2	B	336.89
SPRHK315X250N	315-250	375	150	129	8.30	2	B	336.89
SPRHK315X280N	315-280	355	150	139	8.40	2	C	336.89
SPRHK355X225N	355-225	337	164	130	8.40	1	C	1,056.50
SPRHK355X250N	355-250	426	175	145	11.00	1	C	828.88
SPRHK355X280N	355-280	426	170	155	12.00	1	C	1,246.61
SPRHK355X315N	355-315	426	175	170	13.00	1	C	1,334.87
SPRHK400X225N	400-225	365	179	130	11.50	1	C	2,078.96
SPRHK400X250N	400-250	358	179	130	11.70	1	C	2,048.52
SPRHK400X280N	400-280	465	190	155	15.00	1	C	692.92
SPRHK400X315N	400-315	430	179	150	15.60	1	C	1,239.26
SPRHK400X355N	400-355	463	190	185	17.00	1	C	1,158.84
SPRHK450X280N	450-280	401	195	150	16.30	1	C	2,656.23
SPRHK450X315N	450-315	401	195	160	16.90	1	B	2,568.52
SPRHK450X355N	450-355	392	195	164	17.40	1	C	2,249.45
SPRHK450X400N	450-400	394	195	179	18.60	1	C	2,030.84
SPRHK500X315N	500-315	432	212	160	21.90	1	C	3,484.42
SPRHK500X355N	500-355	425	212	164	22.40	1	C	3,285.29
SPRHK500X400N	500-400	426	212	179	23.50	1	C	2,785.95
SPRHK500X450N	500-450	427	212	195	25.10	1	C	2,605.06
SPRHK560X355N	560-355	465	235	164	30.10	1	C	4,722.36
SPRHK560X400N	560-400	467	235	179	31.10	1	C	4,124.99
SPRHK560X450N	560-450	469	235	195	32.60	1	C	3,578.15
SPRHK560X500N	560-500	471	235	212	34.50	1	C	3,287.72
SPRHK630X400N	630-400	507	256	179	41.70	1	C	5,274.12
SPRHK630X450N	630-450	509	256	195	43.00	1	C	4,955.60
SPRHK630X500N	630-500	511	256	212	44.70	1	C	4,634.10
SPRHK630X560N	630-560	517	256	235	47.70	1	C	4,634.10

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For more information visit our website www.fusiongroup.com

Reducer - Continued

Specification

- PE100
- SDR17 - Water PN10 / Gas 6 Bar
- d63x32 - 315x280





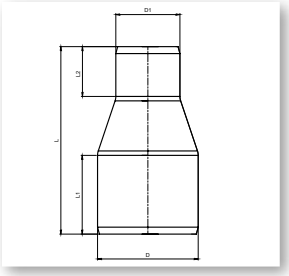
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar								
SPRHK63X32V	63-32	142	63	46	0.08	15	C	15.25
SPRHK63X50V	63-50	152	64	58	0.10	15	C	15.25
SPRHK75X40V	75-40	143	72	49	0.11	48	C	13.59
SPRHK75X50V	75-50	145	73	57	0.12	48	C	13.59
SPRHK75X63V	75-63	175	70	63	0.19	40	C	12.97
SPRHK90X50V	90-50	138	82	55	0.19	60	C	18.03
SPRHK90X63V	90-63	196	79	63	0.26	36	C	17.96
SPRHK90X75V	90-75	200	79	70	0.30	36	B	17.96
SPRHK110X50V	110-50	176	88	57	0.30	45	C	22.12
SPRHK110X63V	110-63	214	82	63	0.39	30	B	23.99
SPRHK110X75V	110-75	216	82	70	0.41	30	B	23.99
SPRHK110X90V	110-90	213	82	79	0.46	30	B	23.99
SPRHK125X63V	125-63	195	87	63	0.46	30	C	28.91
SPRHK125X75V	125-75	215	87	70	0.52	30	C	28.91
SPRHK125X90V	125-90	222	87	79	0.58	30	C	28.91
SPRHK125X110V	125-110	222	87	82	0.63	18	C	28.91
SPRHK140X75V	140-75	225	92	70	0.67	16	C	41.39
SPRHK140X90V	140-90	225	92	79	0.67	16	C	41.39
SPRHK140X110V	140-110	233	92	82	0.78	16	C	41.39
SPRHK140X125V	140-125	225	92	87	0.79	16	C	41.39
SPRHK160X90V	160-90	245	98	79	0.94	16	C	55.47
SPRHK160X110V	160-110	250	98	82	0.97	16	C	55.47
SPRHK160X125V	160-125	250	98	87	1.08	16	C	55.47
SPRHK160X140V	160-140	245	98	92	1.09	16	B	55.47
SPRHK180X63V	180-63	226	107	68	0.96	1	C	72.94
SPRHK180X90V	180-90	244	105	80	1.04	10	C	110.79
SPRHK180X110V	180-110	255	105	82	1.25	6	C	61.50
SPRHK180X125V	180-125	255	105	87	1.32	6	C	63.37
SPRHK180X140V	180-140	250	105	92	1.37	6	C	65.94
SPRHK180X160V	180-160	255	105	98	1.49	6	C	69.47
SPRHK200X90V	200-90	253	116	83	1.30	6	C	95.40
SPRHK200X110V	200-110	275	112	82	1.71	8	C	80.77
SPRHK200X140V	200-140	275	112	92	1.76	8	C	80.77
SPRHK200X160V	200-160	270	112	98	1.86	8	B	80.77
SPRHK200X180V	200-180	275	112	105	2.02	8	C	80.77
SPRHK225X110V	225-110	295	120	82	2.32	6	B	129.65
SPRHK225X140V	225-140	290	133	114	1.98	4	C	214.38
SPRHK225X160V	225-160	280	120	98	2.33	6	C	129.65
SPRHK225X180V	225-180	280	120	105	2.44	5	C	129.65
SPRHK225X200V	225-200	300	120	112	2.75	5	C	129.65
SPRHK250X160V	250-160	294	129	98	2.82	2	B	186.02
SPRHK250X180V	250-180	305	129	105	3.25	2	B	186.02
SPRHK250X200V	250-200	310	129	112	3.45	2	B	186.02
SPRHK250X225V	250-225	305	129	120	3.56	2	C	186.02
SPRHK280X180V	280-180	348	139	105	4.19	2	C	231.23
SPRHK280X200V	280-200	348	139	112	4.44	2	C	231.23
SPRHK280X225V	280-225	336	139	120	4.56	2	C	231.23
SPRHK280X250V	280-250	348	139	129	4.94	2	C	231.23
SPRHK315X200V	315-200	330	160	120	4.50	1	C	756.91
SPRHK315X225V	315-225	375	150	120	6.13	2	C	320.04
SPRHK315X250V	315-250	375	150	129	6.43	2	B	320.04
SPRHK315X280V	315-280	355	150	139	6.35	2	C	320.04

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Reducer - Continued

Specification

- PE100
- SDR 17 - Water PN10 / Gas 6 Bar up to 400mm
- SDR 17 - Water PN10 / Gas 6 Bar sizes above 400mm upon request
- d355x250 - 1000x900





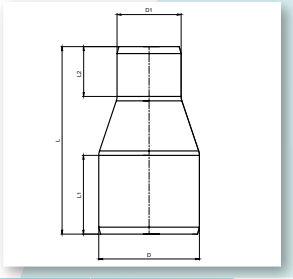
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar								
SPRHK355X250V	355-250	426	175	145	9.60	1	C	689.03
SPRHK355X280V	355-280	426	170	155	10.00	1	C	689.03
SPRHK355X315V	355-315	426	175	170	11.00	1	C	689.03
SPRHK400X225V	400-225	365	179	130	7.90	1	C	1,895.02
SPRHK400X250V	400-250	358	179	130	8.00	1	C	1,861.53
SPRHK400X280V	400-280	465	190	155	13.00	1	C	965.95
SPRHK400X315V	400-315	430	179	150	11.50	1	C	1,177.35
SPRHK400X355V	400-355	463	190	185	15.00	1	C	965.95
SPRHK450X280V	450-280	401	195	150	11.20	1	C	2,422.99
SPRHK450X315V	450-315	401	195	160	11.50	1	B	2,314.62
SPRHK450X355V	450-355	392	195	164	11.90	1	C	1,918.18
SPRHK450X400V	450-400	394	195	179	12.60	1	C	1,776.94
SPRHK500X315V	500-315	432	212	160	15.00	1	C	3,152.52
SPRHK500X355V	500-355	425	212	164	15.30	1	C	2,888.84
SPRHK500X400V	500-400	426	212	179	16.00	1	C	2,474.16
SPRHK500X450V	500-450	427	212	195	17.00	1	C	2,259.23
SPRHK560X355V	560-355	465	235	164	20.70	1	C	4,282.10
SPRHK560X400V	560-400	467	235	179	21.30	1	C	3,661.63
SPRHK560X450V	560-450	469	235	195	22.20	1	C	3,128.81
SPRHK560X500V	560-500	471	235	212	23.40	1	C	2,832.20
SPRHK630X400V	630-400	507	256	179	28.50	1	C	4,710.23
SPRHK630X450V	630-450	509	256	195	29.40	1	B	4,428.25
SPRHK630X500V	630-500	511	256	212	30.50	1	C	4,053.16
SPRHK630X560V	630-560	517	256	235	32.50	1	C	4,047.68
SPRHK710X500V	710-500	890	350	350	61.80	1	C	6,160.75
SPRHK710X560V	710-560	870	350	350	64.10	1	C	5,997.54
SPRHK710X630V	710-630	840	350	350	66.30	1	C	5,471.37
SPRHK800X560V	800-560	900	350	350	79.60	1	C	7,237.36
SPRHK800X630V	800-630	880	350	350	82.50	1	C	7,025.41
SPRHK800X710V	800-710	850	350	350	85.40	1	C	6,764.78
SPRHK900X800V	900-800	910	400	350	116.70	1	C	9,446.60
SPRHK900X710V	900-710	940	400	350	113.10	1	C	10,111.57
SPRHK900X630V	900-630	970	400	350	110.80	1	C	10,142.01
SPRHK1000X710V	1000-710	970	400	350	138.40	1	C	13,450.46
SPRHK1000X800V	1000-800	940	400	350	141.20	1	C	12,475.49
SPRHK1000X900V	1000-900	900	400	350	143.70	1	C	11,604.11

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Reducer - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- d40x25 - 225x200





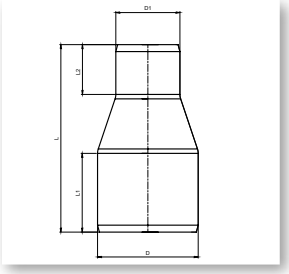
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25								
SPRHK40X25T	40-25	102	50	44	0.06	70	C	23.99
SPRHK40X32T	40-32	102	50	44	0.06	60	C	23.99
SPRHK50X25T	50-25	114	56	44	0.08	130	C	23.99
SPRHK50X32T	50-32	115	56	48	0.08	80	C	23.99
SPRHK50X40T	50-40	110	54	50	0.09	80	C	23.99
SPRHK63X25T	63-25	127	64	44	0.13	72	C	30.37
SPRHK63X32T	63-32	127	66	49	0.14	72	C	30.37
SPRHK63X40T	63-40	128	65	52	0.14	72	C	30.37
SPRHK63X50T	63-50	136	66	57	0.17	50	C	30.37
SPRHK75X32T	75-32	142	73	46	0.21	44	C	38.20
SPRHK75X40T	75-40	143	72	49	0.22	48	C	38.20
SPRHK75X50T	75-50	145	73	57	0.23	48	C	38.20
SPRHK75X63T	75-63	141	73	65	0.27	30	C	38.20
SPRHK90X50T	90-50	138	82	55	0.36	60	C	50.47
SPRHK90X63T	90-63	163	82	66	0.39	60	C	50.47
SPRHK90X75T	90-75	167	83	73	0.44	36	C	50.47
SPRHK110X50T	110-50	176	88	57	0.57	45	C	66.98
SPRHK110X63T	110-63	178	89	67	0.75	36	C	66.98
SPRHK110X75T	110-75	178	88	73	0.65	36	C	66.98
SPRHK110X90T	110-90	186	88	82	0.71	30	C	66.98
SPRHK125X63T	125-63	181	90	66	0.79	26	C	94.22
SPRHK125X75T	125-75	187	91	73	0.82	24	C	94.22
SPRHK125X90T	125-90	189	91	81	0.90	18	C	94.22
SPRHK125X110T	125-110	191	90	90	1.00	24	C	94.22
SPRHK140X90T	140-90	204	95	81	1.15	24	C	145.53
SPRHK140X110T	140-110	203	95	91	1.27	19	C	145.53
SPRHK140X125T	140-125	198	96	93	1.44	18	C	147.89
SPRHK160X90T	160-90	226	106	83	1.72	14	C	166.40
SPRHK160X110T	160-110	226	106	92	1.84	14	C	166.40
SPRHK160X125T	160-125	216	105	93	1.74	12	C	166.40
SPRHK160X140T	160-140	204	100	93	1.85	8	C	166.40
SPRHK180X125T	180-125	240	110	90	2.27	6	C	211.12
SPRHK180X140T	180-140	218	106	94	2.26	12	C	211.12
SPRHK180X160T	180-160	220	105	105	2.46	6	C	211.12
SPRHK200X140T	200-140	234	111	95	2.79	6	C	279.07
SPRHK200X160T	200-160	241	117	100	3.00	6	C	279.07
SPRHK200X180T	200-180	234	114	106	3.71	4	C	279.07
SPRHK225X160T	225-160	258	115	104	3.95	126 - Pallet	C	335.78
SPRHK225X180T	225-180	271	122	118	4.22	4	C	335.78
SPRHK225X200T	225-200	257	118	116	4.35	72 - Pallet	C	335.78

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Reducer - Continued

Specification

- PE100
- SDR 9 - Water PN20
- d110x50 - 225x200





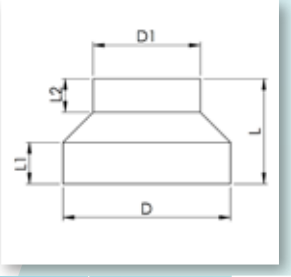
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 9 I Water PN 20								
SPRHK110X50R	110-50	176	88	57	0.46	45	C	63.93
SPRHK110X63R	110-63	178	89	67	0.49	36	C	63.93
SPRHK110X75R	110-75	178	88	73	0.53	36	C	63.93
SPRHK110X90R	110-90	186	88	82	0.58	30	C	63.93
SPRHK125X63R	125-63	181	90	66	0.65	26	C	90.06
SPRHK125X75R	125-75	187	91	73	0.68	24	C	90.06
SPRHK125X90R	125-90	189	91	81	0.72	18	C	90.06
SPRHK125X110R	125-110	191	90	90	0.80	24	C	88.68
SPRHK140X90R	140-90	204	95	81	0.92	24	C	141.30
SPRHK140X110R	140-110	203	95	91	1.00	19	C	141.30
SPRHK140X125R	140-125	198	96	93	1.07	18	C	139.08
SPRHK160X90R	160-90	226	106	83	1.27	14	C	158.98
SPRHK160X110R	160-110	226	106	92	1.36	14	C	158.98
SPRHK160X125R	160-125	216	105	93	1.39	12	C	158.98
SPRHK160X140R	160-140	204	100	93	1.48	8	C	158.98
SPRHK180X125R	180-125	240	110	90	1.75	6	C	201.48
SPRHK180X140R	180-140	218	106	94	1.78	12	C	201.48
SPRHK180X160R	180-160	220	105	105	1.93	6	C	201.48
SPRHK200X140R	200-140	234	111	95	2.24	6	C	262.84
SPRHK200X160R	200-160	241	117	100	2.47	6	C	267.07
SPRHK200X180R	200-180	234	114	106	2.53	4	C	267.07
SPRHK225X160R	225-160	258	115	104	3.13	126 - Pallet	C	321.57
SPRHK225X180R	225-180	271	122	118	3.50	4	C	321.57
SPRHK225X200R	225-200	257	118	116	3.56	72 - Pallet	C	321.57

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Reducer | Short Spigot

Specification

- PE100
- SDR11 - Water PN16 / (Gas 10 Bar - Upon request)
- d25x20 - 280x250





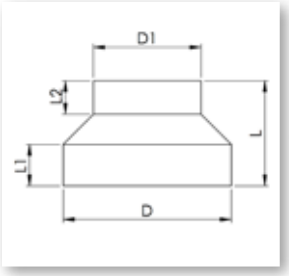
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
SSRHK25X20N	25-20	68	20	20	0.004	1	C	7.07
SSRHK32X20N	32-20	68	23	23	0.01	80	C	8.39
SSRHK32X25N	32-25	38	16	14	0.05	10	C	9.22
SSRHK40X20N	40-20	50	18	13	0.01	1	C	9.64
SSRHK40X25N	40-25	47	19	14	0.05	10	C	10.82
SSRHK40X32N	40-32	39	19	15	0.05	10	C	10.82
SSRHK50X25N	50-25	53	19	17	0.08	10	C	11.23
SSRHK50X32N	50-32	44	18	14	0.05	10	C	11.23
SSRHK50X40N	50-40	46	20	19	0.05	10	C	11.23
SSRHK63X32N	63-32	63	23	22	0.10	5	C	13.17
SSRHK63X40N	63-40	58	24	18	0.10	5	C	13.17
SSRHK63X50N	63-50	54	25	20	0.10	5	C	13.17
SSRHK75X32N	75-32	70	25	10	0.07	1	C	15.18
SSRHK75X40N	75-40	70	29	22	0.10	2	C	17.06
SSRHK75X50N	75-50	71	28	23	0.10	2	C	17.06
SSRHK75X63N	75-63	70	29	31	0.10	2	C	17.06
SSRHK90X50N	90-50	73	26	22	0.10	2	C	18.51
SSRHK90X63N	90-63	71	29	24	0.10	2	C	18.51
SSRHK90X75N	90-75	80	33	33	0.16	2	C	18.51
SSRHK110X50N	110-50	90	33	29	0.20	2	C	22.95
SSRHK110X63N	110-63	105	40	36	0.25	4	C	20.31
SSRHK110X75N	110-75	90	34	35	0.30	2	C	22.95
SSRHK110X90N	110-90	104	40	41	0.29	4	C	20.31
SSRHK125X63N	125-63	100	40	34	0.30	2	C	29.67
SSRHK125X75N	125-75	98	32	19	0.31	18	C	26.21
SSRHK125X90N	125-90	110	42	41	0.37	18	C	26.21
SSRHK125X110N	125-110	100	40	48	0.40	2	C	29.67
SSRHK140X75N	140-75	110	49	37	0.50	2	C	36.12
SSRHK140X90N	140-90	126	45	28	0.40	2	C	36.12
SSRHK140X110N	140-110	126	45	34	0.50	2	C	36.12
SSRHK140X125N	140-125	128	45	42	0.60	2	C	36.12
SSRHK160X90N	160-90	120	53	37	0.70	2	C	41.95
SSRHK160X110N	160-110	125	50	39	0.70	2	C	47.42
SSRHK160X125N	160-125	120	54	45	0.70	2	C	41.95
SSRHK160X140N	160-140	98	44	43	0.80	2	C	54.50
SSRHK180X90N	180-90	130	59	37	1.00	1	C	63.09
SSRHK180X110N	180-110	130	60	40	1.00	1	C	63.09
SSRHK180X125N	180-125	152	62	42	1.10	1	C	73.49
SSRHK180X140N	180-140	135	51	47	1.02	8	C	50.54
SSRHK180X160N	180-160	131	60	55	1.21	1	C	74.95
SSRHK200X140N	200-140	140	60	48	1.30	1	C	189.83
SSRHK200X160N	200-160	140	60	54	1.50	1	C	147.19
SSRHK200X180N	200-180	140	60	61	1.40	1	C	131.11
SSRHK225X140N	225-140	160	65	57	1.80	1	C	219.65
SSRHK225X160N	225-160	190	65	50	2.00	1	C	182.28
SSRHK225X180N	225-180	190	65	55	2.10	1	C	173.75
SSRHK225X200N	225-200	160	71	71	1.90	1	C	153.43
SSRHK250X160N	250-160	157	55	55	2.12	6	C	140.26
SSRHK250X180N	250-180	150	62	50	2.36	1	C	140.26
SSRHK250X200N	250-200	138	60	50	2.28	1	C	140.26
SSRHK250X225N	250-225	142	50	68	2.17	1	C	140.26
SSRHK280X180N	280-180	200	85	70	3.20	1	C	373.29
SSRHK280X200N	280-200	160	72	51	2.83	114 - Pallet	C	168.27
SSRHK280X225N	280-225	154	72	57	2.79	110 - Pallet	C	168.27
SSRHK280X250N	280-250	150	71	64	2.87	84 - Pallet	C	168.27

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For more information visit our website www.fusiongroup.com

Reducer | Short Spigot - Continued

Specification

- PE100
- SDR11 - Water PN16 / (Gas 10 Bar - Upon request)
- d315x200 - 1000x900





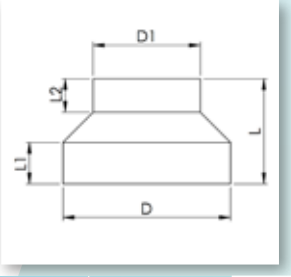
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)								
SSRHK315X200N	315-200	231	95	85	4.60	1	C	495.11
SSRHK315X225N	315-225	184	82	57	4.02	72 - Pallet	C	178.26
SSRHK315X250N	315-250	178	81	62	4.06	72 - Pallet	C	178.26
SSRHK315X280N	315-280	175	79	72	4.15	54 - Pallet	C	178.26
SSRHK355X225N	355-225	213	92	57	5.24	48 - Pallet	C	218.33
SSRHK355X250N	355-250	195	87	62	5.27	48 - Pallet	C	214.86
SSRHK355X280N	355-280	200	87	77	5.82	48 - Pallet	C	218.33
SSRHK355X315N	355-315	188	88	78	5.73	35 - Pallet	C	218.33
SSRHK400X225N	400-225	160	64	40	5.70	1	C	1,099.77
SSRHK400X250N	400-250	150	61	40	5.40	1	C	1,042.50
SSRHK400X280N	400-280	226	96	73	7.79	42 - Pallet	C	416.69
SSRHK400X315N	400-315	218	97	83	7.94	42 - Pallet	C	416.69
SSRHK400X355N	400-355	208	97	92	8.02	30 - Pallet	C	416.69
SSRHK450X280N	450-280	160	65	40	7.50	1	C	1,282.46
SSRHK450X315N	450-315	206	64	76	7.80	20 - Pallet	C	660.95
SSRHK450X355N	450-355	203	64	92	9.04	20 - Pallet	C	660.95
SSRHK450X400N	450-400	188	64	99	9.13	20 - Pallet	C	660.95
SSRHK500X315N	500-315	170	71	40	10.00	1	C	1,495.59
SSRHK500X355N	500-355	210	62	81	11.70	15 - Pallet	C	977.46
SSRHK500X400N	500-400	210	63	96	11.54	15 - Pallet	C	977.46
SSRHK500X450N	500-450	166	63	63	15.07	18 - Pallet	C	977.46
SSRHK560X355N	560-355	170	65	40	12.60	1	C	1,846.35
SSRHK560X400N	560-400	240	60	98	15.08	16 - Pallet	C	1,262.84
SSRHK560X450N	560-450	187	60	65	13.24	18 - Pallet	C	1,262.84
SSRHK560X500N	560-500	192	62	61	12.34	16 - Pallet	C	1,262.84
SSRHK630X400N	630-400	190	78	40	18.20	1	C	2,197.73
SSRHK630X450N	630-450	234	60	68	19.57	10 - Pallet	C	1,562.29
SSRHK630X500N	630-500	192	62	61	18.12	10 - Pallet	C	1,562.29
SSRHK630X560N	630-560	188	64	65	17.34	12 - Pallet	C	1,562.29
SSRHK710X560N	710-560	160	66	40	21.64	10 - Pallet	C	2,583.78
SSRHK710X630N	710-630	160	66	62	21.40	10 - Pallet	C	2,583.78
SSRHK800X710N	800-710	160	62	62	26.14	7 - Pallet	C	2,861.32
SSRHK900X800N	900-800	160	62	62	31.50	1	C	3,815.07
SSRHK1000X900N	1000-900	170	65	56	42.35	1	C	5,913.30

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Reducer | Short Spigot - Continued

Specification

- PE100
- SDR17 - Water PN10 / (Gas 6 Bar - Upon request)
- d63x32 - 450x280





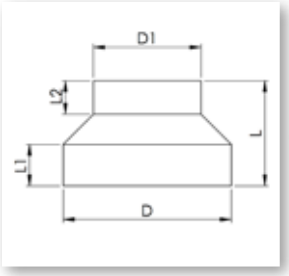
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)								
SSRHK63X32V	63-32	63	23	22	0.05	5	C	13.17
SSRHK63X50V	63-50	54	25	20	0.05	5	C	13.17
SSRHK75X50V	75-50	71	28	23	0.10	2	C	17.06
SSRHK75X63V	75-63	70	29	31	0.10	2	C	17.06
SSRHK90X50V	90-50	73	26	22	0.10	2	C	18.51
SSRHK90X63V	90-63	71	29	24	0.10	2	C	18.51
SSRHK90X75V	90-75	80	33	33	0.10	2	C	18.51
SSRHK110X50V	110-50	90	33	29	0.20	2	C	22.95
SSRHK110X63V	110-63	91	42	23	0.20	2	C	22.95
SSRHK110X75V	110-75	90	34	35	0.20	2	C	22.95
SSRHK110X90V	110-90	88	40	28	0.20	2	C	22.95
SSRHK125X63V	125-63	100	40	34	0.20	2	C	29.67
SSRHK125X75V	125-75	103	48	31	0.30	2	C	29.67
SSRHK125X90V	125-90	100	38	30	0.30	2	C	29.67
SSRHK125X110V	125-110	100	40	40	0.28	18	C	26.21
SSRHK140X75V	140-75	110	49	37	0.30	2	C	34.87
SSRHK140X90V	140-90	126	45	28	0.30	2	C	36.12
SSRHK140X110V	140-110	126	45	34	0.30	2	C	34.87
SSRHK140X125V	140-125	128	45	42	0.40	2	C	36.12
SSRHK160X90V	160-90	120	53	37	0.50	2	C	40.49
SSRHK160X110V	160-110	125	50	39	0.50	2	C	41.95
SSRHK160X125V	160-125	120	54	45	0.50	2	C	41.95
SSRHK160X140V	160-140	98	44	43	0.60	2	C	43.33
SSRHK180X90V	180-90	130	59	37	0.70	1	C	65.31
SSRHK180X110V	180-110	130	60	40	0.80	1	C	65.31
SSRHK180X125V	180-125	143	52	40	0.71	12	C	52.62
SSRHK180X140V	180-140	135	51	47	0.67	12	C	50.54
SSRHK180X160V	180-160	140	60	50	0.75	4	C	50.54
SSRHK200X140V	200-140	140	60	48	0.90	1	C	183.66
SSRHK200X160V	200-160	140	60	54	1.00	1	C	142.34
SSRHK200X180V	200-180	145	62	54	0.97	1	C	111.35
SSRHK225X140V	225-140	160	65	57	1.80	1	C	212.71
SSRHK225X160V	225-160	190	65	50	1.40	1	C	178.60
SSRHK225X180V	225-180	190	65	55	1.30	1	C	169.59
SSRHK225X200V	225-200	149	62	52	1.21	1	C	131.25
SSRHK250X160V	250-160	157	55	55	1.45	6	C	120.22
SSRHK250X180V	250-180	150	62	50	1.95	40	C	120.22
SSRHK250X200V	250-200	138	60	50	1.68	1	C	120.22
SSRHK250X225V	250-225	142	50	68	1.66	1	C	120.22
SSRHK280X180V	280-180	200	85	70	2.20	1	C	355.61
SSRHK280X200V	280-200	160	72	51	1.94	125 - Pallet	C	140.26
SSRHK280X225V	280-225	154	72	57	1.95	110 - Pallet	C	140.26
SSRHK280X250V	280-250	150	71	64	2.00	80 - Pallet	C	140.26
SSRHK315X200V	315-200	231	95	85	3.10	1	C	470.70
SSRHK315X225V	315-225	184	82	57	2.85	80 - Pallet	C	148.30
SSRHK315X250V	315-250	178	81	62	4.06	72 - Pallet	C	148.30
SSRHK315X280V	315-280	175	79	72	2.84	54 - Pallet	C	148.30
SSRHK355X225V	355-225	213	92	57	3.73	54 - Pallet	C	180.27
SSRHK355X250V	355-250	195	87	62	3.85	54 - Pallet	C	180.27
SSRHK355X280V	355-280	200	87	77	3.96	48 - Pallet	C	180.27
SSRHK355X315V	355-315	188	88	78	3.99	35 - Pallet	C	180.27
SSRHK400X225V	400-225	160	64	40	3.90	1	C	1,127.78
SSRHK400X250V	400-250	150	61	40	3.80	1	C	1,009.63
SSRHK400X280V	400-280	226	96	73	5.36	42 - Pallet	C	330.44
SSRHK400X315V	400-315	218	97	83	5.57	48 - Pallet	C	325.17
SSRHK400X355V	400-355	208	97	92	5.52	30 - Pallet	C	330.44
SSRHK450X280V	450-280	160	65	40	5.20	1	C	1,234.34

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For more information visit our website www.fusiongroup.com

Reducer | Short Spigot - Continued

Specification

- PE100
- SDR17 - Water PN10 / Gas 6 Bar (Upon request)
- SDR 7.4 - Water PN25
- d250x160 - 1200x1000





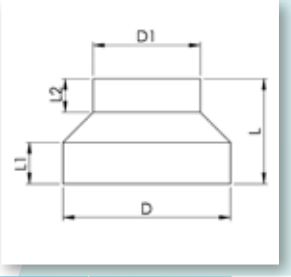
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)								
SSRHK450X315V	450-315	206	64	76	6.40	20 - Pallet	C	522.70
SSRHK450X355V	450-355	203	64	92	6.05	20 - Pallet	C	522.70
SSRHK450X400V	450-400	188	64	99	6.10	20 - Pallet	C	522.70
SSRHK500X315V	500-315	170	71	40	6.90	1	C	1,426.19
SSRHK500X355V	500-355	210	62	81	7.97	15 - Pallet	C	807.32
SSRHK500X400V	500-400	210	63	96	7.12	15 - Pallet	C	820.28
SSRHK500X450V	500-450	166	63	63	7.13	18 - Pallet	C	820.28
SSRHK560X355V	560-355	170	65	40	8.80	1	C	1,738.53
SSRHK560X400V	560-400	240	60	98	10.97	16 - Pallet	C	941.41
SSRHK560X450V	560-450	187	60	65	9.04	18 - Pallet	C	941.41
SSRHK560X500V	560-500	192	62	61	9.04	18 - Pallet	C	941.41
SSRHK630X400V	630-400	190	78	40	12.70	1	C	2,043.60
SSRHK630X450V	630-450	234	60	68	13.80	10 - Pallet	C	1,241.83
SSRHK630X500V	630-500	192	62	61	13.30	10 - Pallet	C	1,241.83
SSRHK630X560V	630-560	188	64	65	14.26	12 - Pallet	C	1,241.83
SSRHK710X500V	710-500	190	84	40	16.60	1	C	2,387.70
SSRHK710X560V	710-560	160	66	40	14.37	10 - Pallet	C	1,782.63
SSRHK710X630V	710-630	160	66	62	18.45	10 - Pallet	C	1,782.63
SSRHK800X560V	800-560	200	85	40	22.50	1	C	2,980.78
SSRHK800X630V	800-630	180	85	40	20.40	1	C	2,509.45
SSRHK800X710V	800-710	150	78	40	16.80	1	C	2,106.97
SSRHK900X630V	900-630	220	96	40	31.60	1	C	3,964.27
SSRHK900X710V	900-710	190	89	40	27.50	1	C	3,400.38
SSRHK900X800V	900-800	160	85	40	22.90	1	C	2,366.97
SSRHK1000X710V	1000-710	220	91	40	39.70	1	C	6,326.94
SSRHK1000X800V	1000-800	190	86	40	34.40	1	C	4,480.04
SSRHK1000X900V	1000-900	150	75	40	26.70	1	C	3,217.07
SSRK1200X1000V	1200-1000	190	922	40	51.90	1	C	7,505.89
PE100 | SDR 7.4 | Water PN 25								
SSRHK250X160T	250-160	157	55	55	2.80	1	C	323.79
SSRHK250X180T	250-180	150	62	50	2.62	1	C	323.79
SSRHK250X200T	250-200	138	60	50	2.75	1	C	323.79
SSRHK250X225T	250-225	142	50	68	2.54	1	C	323.79
SSRHK280X200T	280-200	160	72	51	3.07	1	C	383.69
SSRHK280X225T	280-225	154	72	57	3.52	1	C	383.69
SSRHK280X250T	280-250	150	71	64	3.82	1	C	383.69
SSRHK315X225T	315-225	184	82	57	5.43	1	C	419.67
SSRHK315X250T	315-250	178	81	62	5.55	1	C	419.67
SSRHK315X280T	315-280	175	79	72	5.90	1	C	419.67
SSRHK355X250T	355-250	195	87	62	7.04	1	C	623.51
SSRHK355X280T	355-280	200	87	77	7.60	1	C	623.51
SSRHK355X315T	355-315	188	88	78	7.60	1	C	623.51
SSRHK400X280T	400-280	226	96	73	10.19	1	C	1,247.03
SSRHK400X315T	400-315	218	97	83	10.96	1	C	1,247.03
SSRHK400X355T	400-355	208	97	92	11.17	1	C	1,247.03
SSRHK450X315T	450-315	206	64	76	11.19	1	C	1,417.03
SSRHK450X355T	450-355	203	64	92	11.75	1	C	1,417.03
SSRHK450X400T	450-400	188	64	99	12.30	1	C	1,417.03
SSRHK500X450T	500-450	166	63	63	13.56	1	C	1,613.25
SSRHK560X400T	560-400	240	60	98	19.00	1	C	2,398.03

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Reducer | Short Spigot - Continued

Specification

- PE100
- SDR 9 - Water PN20
- SDR 26 - Water PN6
- d250x160 - 1200x1000





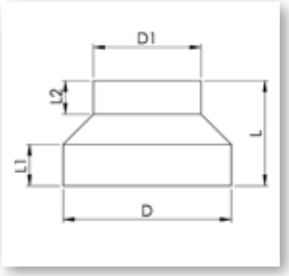
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 9 | Water PN 20								
SSRHK250X160R	250-160	157	55	55	2.46	1	C	309.57
SSRHK250X180R	250-180	150	62	50	2.23	1	C	309.57
SSRHK250X200R	250-200	138	60	50	2.30	1	C	309.57
SSRHK250X225R	250-225	142	50	68	2.14	1	C	309.57
SSRHK280X200R	280-200	160	72	51	3.22	1	C	366.29
SSRHK280X225R	280-225	154	72	57	3.29	1	C	366.29
SSRHK280X250R	280-250	150	71	64	3.32	1	C	366.29
SSRHK315X225R	315-225	184	82	57	4.67	1	C	401.16
SSRHK315X250R	315-250	178	81	62	4.64	1	C	401.16
SSRHK315X280R	315-280	175	79	72	5.14	1	C	401.16
SSRHK355X250R	355-250	195	87	62	6.00	1	C	595.16
SSRHK355X280R	355-280	200	87	77	6.40	1	C	595.16
SSRHK355X315R	355-315	188	88	78	6.50	1	C	595.16
SSRHK400X280R	400-280	226	96	73	8.67	1	C	1,190.31
SSRHK400X315R	400-315	218	97	83	8.84	1	C	1,190.31
SSRHK400X355R	400-355	208	97	92	9.08	1	C	1,190.31
SSRHK450X315R	450-315	206	64	76	9.54	1	C	1,242.66
SSRHK450X355R	450-355	203	64	92	9.98	1	C	1,242.66
SSRHK450X400R	450-400	188	64	99	10.35	1	C	1,242.66
SSRHK500X355R	500-355	210	62	81	12.02	1	C	1,526.03
SSRHK500X450R	500-450	166	63	63	11.53	1	C	1,526.03
SSRHK560X400R	560-400	240	60	98	17.32	1	C	2,158.21
SSRHK630X500R	630-500	192	62	61	19.98	1	C	2,398.03
PE100 | SDR 26 | Water PN 6								
SSRHK250X160W	250-160	157	55	55	1.00	1	C	117.31
SSRHK250X180W	250-180	150	62	50	1.00	1	C	117.31
SSRHK250X200W	250-200	138	60	50	1.00	1	C	117.31
SSRHK250X225W	250-225	142	50	68	1.00	1	C	117.31
SSRHK280X200W	280-200	160	72	51	1.49	1	C	137.77
SSRHK280X225W	280-225	154	72	57	1.48	1	C	137.77
SSRHK280X250W	280-250	150	71	64	1.33	1	C	137.77
SSRHK315X225W	315-225	184	82	57	2.12	1	C	144.98
SSRHK315X250W	315-250	178	81	62	1.97	1	C	144.98
SSRHK315X280W	315-280	175	79	72	1.86	1	C	144.98
SSRHK355X225W	355-225	213	92	57	2.65	1	C	177.42
SSRHK355X250W	355-250	195	87	62	2.53	1	C	177.42
SSRHK355X280W	355-280	200	87	77	3.10	1	C	177.42
SSRHK355X315W	355-315	188	88	78	3.00	1	C	177.42
SSRHK400X280W	400-280	226	96	73	4.34	1	C	324.34
SSRHK400X315W	400-315	218	97	83	4.30	1	C	324.34
SSRHK400X355W	400-355	208	97	92	4.10	1	C	324.34
SSRHK450X315W	450-315	206	64	76	4.60	1	C	515.08
SSRHK450X355W	450-355	203	64	92	4.60	1	C	515.08
SSRHK450X400W	450-400	188	64	99	4.60	1	C	515.08
SSRHK500X355W	500-355	210	62	81	5.90	1	C	799.27
SSRHK500X400W	500-400	210	63	96	6.30	1	C	799.27
SSRHK500X450W	500-450	166	63	63	6.00	1	C	799.27
SSRHK560X400W	560-400	240	60	98	8.40	1	C	919.43
SSRHK560X450W	560-450	187	60	65	7.60	1	C	919.43
SSRHK560X500W	560-500	192	62	61	6.90	1	C	919.43
SSRHK630X450W	630-450	234	60	68	10.60	1	C	1,173.12
SSRHK630X500W	630-500	192	62	61	11.42	1	C	1,173.12
SSRHK630X560W	630-560	188	64	65	9.90	1	C	1,173.12
SSRHK710X560W	710-560	160	66	40	13.80	1	C	1,611.86
SSRHK710X630W	710-630	160	66	62	12.10	1	C	1,611.86
SSRHK800X710W	800-710	160	62	62	14.30	1	C	2,020.10
SSRHK900X800W	900-800	160	62	62	18.60	1	C	2,449.27
SSRHK1000X900W	1000-900	170	65	56	22.00	1	C	4,286.19
SSRK1200X1000W	1200-1000	165	58	45	32.70	1	C	11,225.69

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Reducer | Short Spigot - Continued

Specification

- PE100
- SDR 33 - Water PN5
- d200x140 - 1200x1000





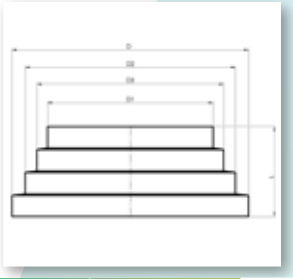
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	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 33 | Water PN 5								
SSRHK200X140Y	200-140	154	50	35	0.28	1	C	175.34
SSRHK200X160Y	200-160	151	50	40	0.28	1	C	136.38
SSRHK200X180Y	200-180	151	50	45	0.30	1	C	121.19
SSRHK225X140Y	225-140	160	60	50	0.38	1	C	198.50
SSRHK225X160Y	225-160	171	55	40	0.35	1	C	170.49
SSRHK225X180Y	225-180	171	55	45	0.33	1	C	162.59
SSRHK225X200Y	225-200	171	55	50	0.35	1	C	142.48
SSRHK250X160Y	250-160	180	75	63	0.90	1	C	294.11
SSRHK250X180Y	250-180	180	75	66	0.90	1	C	278.93
SSRHK250X200Y	250-200	180	75	72	0.90	1	C	260.62
SSRHK250X225Y	250-225	180	75	83	1.00	1	C	236.91
SSRHK280X180Y	280-180	200	85	70	1.20	1	C	366.01
SSRHK280X200Y	280-200	200	85	72	1.30	1	C	346.46
SSRHK280X225Y	280-225	200	85	80	1.30	1	C	320.32
SSRHK280X250Y	280-250	200	85	90	1.40	1	C	289.88
SSRHK315X200Y	315-200	231	95	85	1.70	1	C	507.87
SSRHK315X225Y	315-225	231	95	88	1.80	1	C	454.90
SSRHK315X250Y	315-250	231	95	95	1.90	1	C	420.78
SSRHK315X280Y	315-280	231	95	107	2.00	1	C	373.29
SSRHK355X225Y	355-225	140	57	40	1.50	1	C	412.88
SSRHK355X250Y	355-250	130	54	40	1.40	1	C	366.57
SSRHK355X280Y	355-280	120	53	40	1.40	1	C	315.47
SSRHK355X315Y	355-315	110	53	40	1.30	1	C	252.72
SSRHK400X225Y	400-225	160	64	40	2.20	1	C	1,127.78
SSRHK400X250Y	400-250	150	61	40	2.10	1	C	1,009.63
SSRHK400X280Y	400-280	140	60	40	2.00	1	C	923.17
SSRHK400X315Y	400-315	120	50	40	1.80	1	C	717.32
SSRHK400X355Y	400-355	110	51	40	1.60	1	C	498.71
SSRHK450X280Y	450-280	160	65	40	2.90	1	C	1,234.34
SSRHK450X315Y	450-315	140	55	40	2.60	1	C	1,078.48
SSRHK450X355Y	450-355	130	57	40	2.40	1	C	875.06
SSRHK450X400Y	450-400	120	60	40	2.30	1	C	686.26
SSRHK500X315Y	500-315	170	71	40	3.90	1	C	1,426.19
SSRHK500X355Y	500-355	150	62	40	3.50	1	C	1,280.59
SSRHK500X400Y	500-400	140	65	40	3.30	1	C	1,029.74
SSRHK500X450Y	500-450	120	60	40	2.80	1	C	725.23
SSRHK560X355Y	560-355	170	65	40	4.90	1	C	1,738.53
SSRHK560X400Y	560-400	160	68	40	4.70	1	C	1,529.70
SSRHK560X450Y	560-450	140	62	40	4.20	1	C	1,250.15
SSRHK560X500Y	560-500	130	67	40	3.90	1	C	789.78
SSRHK630X400Y	630-400	190	78	40	7.10	1	C	2,043.60
SSRHK630X450Y	630-450	170	72	40	6.40	1	C	1,697.14
SSRHK630X500Y	630-500	150	67	40	5.70	1	C	1,427.99
SSRHK630X560Y	630-560	130	64	40	4.90	1	C	1,137.48
SSRHK710X500Y	710-500	190	84	40	9.20	1	C	2,387.70
SSRHK710X560Y	710-560	170	81	40	8.30	1	C	1,990.63
SSRHK710X630Y	710-630	140	71	40	6.80	1	C	1,618.59
SSRHK800X560Y	800-560	200	85	40	12.50	1	C	2,980.78
SSRHK800X630Y	800-630	180	85	40	11.30	1	C	2,509.45
SSRHK800X710Y	800-710	150	78	40	9.30	1	C	2,106.97
SSRHK900X630Y	900-630	220	96	40	17.60	1	C	3,964.27
SSRHK900X710Y	900-710	190	89	40	15.30	1	C	3,400.38
SSRHK900X800Y	900-800	160	85	40	12.70	1	C	2,366.97
SSRHK1000X710Y	1000-710	220	91	40	22.10	1	C	6,326.94
SSRHK1000X800Y	1000-800	190	86	40	19.10	1	C	4,480.04
SSRHK1000X900Y	1000-900	150	75	40	14.70	1	C	3,217.07
SSRK1200X1000Y	1200-1000	190	92	40	28.40	1	C	7,505.89

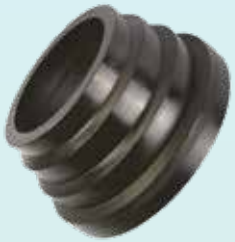
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Step Reducer | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR17 - Water PN10 / Gas 6 Bar
- d225x160 - 900x630





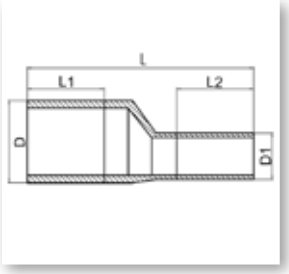
Code	D-D1	D2	D3	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | Gas 10 Bar								
SSSRHK225X160N	225-160	180	200	171	1.73	1	C	129.03
SSSRHK315X225N	315-225	250	280	171	3.80	1	C	144.63
SSSRHK450X315N	450-315	355	400	176	8.52	1	C	515.29
SSSRHK630X450N	630-450	500	560	200	19.74	1	C	769.32
PE100 | SDR 17 | Water PN 10 | Gas 6 Bar								
SSSRHK225X160V	225-160	180	200	171	1.25	1	C	122.65
SSSRHK315X225V	315-225	250	280	171	2.51	1	C	137.35
SSSRHK450X315V	450-315	355	400	180	5.93	1	C	489.42
SSSRHK630X450V	630-450	500	560	208	13.90	1	C	730.84
SSSRHK900X630V	900-630	710	800	194	31.30	1	C	2,011.85

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Eccentric Reducer

Specification

- PE100
- SDR 11 - Water PN16
- d160x90 - 630x560





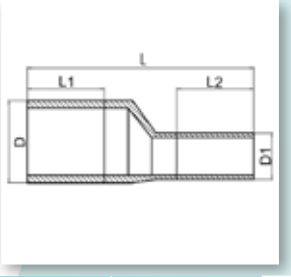
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16								
SPREHK160X90N	160-90	440	150	150	2.10	1	C	864.10
SPREHK160X110N	160-110	420	150	150	2.10	1	C	832.42
SPREHK160X125N	160-125	410	150	150	2.30	1	C	811.75
SPREHK160X140N	160-140	400	150	150	2.40	1	C	799.55
SPREHK180X110N	180-110	440	150	150	2.70	1	C	993.82
SPREHK180X125N	180-125	430	150	150	2.80	1	C	957.91
SPREHK180X140N	180-140	420	150	150	2.90	1	C	953.61
SPREHK180X160N	180-160	400	150	150	3.10	1	C	940.85
SPREHK200X125N	200-125	454	150	150	3.50	1	C	1,096.09
SPREHK200X140N	200-140	430	150	150	3.50	1	C	1,075.98
SPREHK200X160N	200-160	420	150	150	3.70	1	C	1,040.69
SPREHK200X180N	200-180	400	150	150	3.80	1	C	1,056.50
SPREHK225X140N	225-140	460	150	150	4.50	1	C	1,337.86
SPREHK225X160N	225-160	440	150	150	4.60	1	C	1,308.04
SPREHK225X180N	225-180	420	150	150	4.70	1	C	1,264.78
SPREHK225X200N	225-200	410	150	150	4.90	1	C	1,259.30
SPREHK250X160N	250-160	570	250	150	7.40	1	C	1,579.00
SPREHK250X180N	250-180	550	250	150	7.50	1	C	1,589.95
SPREHK250X200N	250-200	530	250	150	7.60	1	C	1,558.89
SPREHK250X225N	250-225	510	250	150	7.80	1	C	1,535.73
SPREHK280X180N	280-180	580	250	150	9.50	1	C	1,815.91
SPREHK280X200N	280-200	560	250	150	9.60	1	C	1,761.69
SPREHK280X225N	280-225	540	250	150	9.70	1	C	1,762.94
SPREHK280X250N	280-250	620	250	250	11.60	1	C	1,773.89
SPREHK315X200N	315-200	640	300	150	13.60	1	C	2,054.00
SPREHK315X225N	315-225	620	300	150	13.70	1	C	2,011.36
SPREHK315X250N	315-250	700	300	250	15.40	1	C	1,987.58
SPREHK315X280N	315-280	680	300	250	16.10	1	C	2,010.74
SPREHK355X225N	355-225	660	300	150	17.80	1	C	2,457.73
SPREHK355X250N	355-250	740	300	250	19.50	1	C	2,355.39
SPREHK355X280N	355-280	700	300	250	19.60	1	C	2,331.68
SPREHK355X315N	355-315	730	300	300	21.80	1	C	2,366.97
SPREHK400X250N	400-250	781	300	250	25.00	1	C	4,292.50
SPREHK400X280N	400-280	750	300	250	25.10	1	C	4,068.97
SPREHK400X315N	400-315	770	300	300	26.90	1	C	3,684.72
SPREHK400X355N	400-355	740	300	300	28.10	1	C	3,371.75
SPREHK450X280N	450-280	801	300	250	32.60	1	C	6,217.33
SPREHK450X315N	450-315	821	300	300	34.20	1	C	5,715.56
SPREHK450X355N	450-355	790	300	300	35.20	1	C	4,987.29
SPREHK450X400N	450-400	750	300	300	36.10	1	C	4,343.59
SPREHK500X280N	500-280	861	350	250	42.70	1	C	8,500.34
SPREHK500X315N	500-315	911	350	300	45.60	1	C	7,693.43
SPREHK500X355N	500-355	880	350	300	46.50	1	C	6,742.87
SPREHK500X400N	500-400	850	350	300	47.80	1	C	5,935.42
SPREHK500X450N	500-450	810	350	300	49.00	1	C	5,331.94
SPREHK560X400N	560-400	901	350	300	60.10	1	C	7,597.27
SPREHK560X450N	560-450	860	350	300	60.90	1	C	7,236.74
SPREHK560X500N	560-500	870	350	350	65.10	1	C	6,823.86
SPREHK630X450N	630-450	921	350	300	78.20	1	C	10,948.29
SPREHK630X500N	630-500	931	350	350	82.00	1	C	10,649.25
SPREHK630X560N	630-560	880	350	350	83.30	1	C	9,243.80

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Eccentric Reducer - Continued

Specification

- PE100
- SDR 17 - Water PN10
- d160x90 - 1000x900





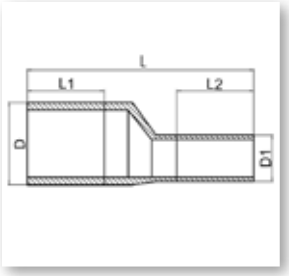
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	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 17 I Water PN 10								
SPREHK160X90V	160-90	440	150	150	1.40	1	C	775.22
SPREHK160X110V	160-110	420	150	150	1.40	1	C	736.81
SPREHK160X125V	160-125	410	150	150	1.50	1	C	715.52
SPREHK160X140V	160-140	400	150	150	1.60	1	C	729.53
SPREHK180X110V	180-110	440	150	150	1.80	1	C	891.49
SPREHK180X125V	180-125	430	150	150	1.90	1	C	848.29
SPREHK180X140V	180-140	420	150	150	2.00	1	C	822.09
SPREHK180X160V	180-160	400	150	150	2.00	1	C	810.51
SPREHK200X125V	200-125	454	150	150	2.30	1	C	965.19
SPREHK200X140V	200-140	430	150	150	2.30	1	C	926.85
SPREHK200X160V	200-160	420	150	150	2.50	1	C	892.11
SPREHK200X180V	200-180	400	150	150	2.50	1	C	893.91
SPREHK225X140V	225-140	460	150	150	3.00	1	C	1,180.12
SPREHK225X160V	225-160	440	150	150	3.10	1	C	1,158.21
SPREHK225X180V	225-180	420	150	150	3.10	1	C	1,106.49
SPREHK225X200V	225-200	410	150	150	3.30	1	C	1,078.48
SPREHK250X160V	250-160	570	250	150	4.90	1	C	1,395.68
SPREHK250X180V	250-180	550	250	150	5.00	1	C	1,393.88
SPREHK250X200V	250-200	530	250	150	5.00	1	C	1,354.29
SPREHK250X225V	250-225	510	250	150	5.20	1	C	1,312.90
SPREHK280X180V	280-180	580	250	150	6.40	1	C	1,593.00
SPREHK280X200V	280-200	560	250	150	6.40	1	C	1,549.74
SPREHK280X225V	280-225	540	250	150	6.50	1	C	1,541.28
SPREHK280X250V	280-250	620	250	250	7.60	1	C	1,513.82
SPREHK315X200V	315-200	640	300	150	9.00	1	C	1,811.61
SPREHK315X225V	315-225	620	300	150	9.10	1	C	1,773.27
SPREHK315X250V	315-250	700	300	250	10.20	1	C	1,741.58
SPREHK315X280V	315-280	680	300	250	10.70	1	C	1,749.49
SPREHK355X225V	355-225	660	300	150	11.90	1	C	2,191.00
SPREHK355X250V	355-250	740	300	250	13.00	1	C	2,089.29
SPREHK355X280V	355-280	700	300	250	13.20	1	C	2,042.42
SPREHK355X315V	355-315	730	300	300	14.40	1	C	2,081.39
SPREHK400X250V	400-250	781	300	250	16.60	1	C	3,972.18
SPREHK400X280V	400-280	750	300	250	16.70	1	C	3,712.18
SPREHK400X315V	400-315	770	300	300	17.90	1	C	3,343.11
SPREHK400X355V	400-355	740	300	300	18.60	1	C	2,961.92
SPREHK450X280V	450-280	801	300	250	21.70	1	C	5,807.57
SPREHK450X315V	450-315	821	300	300	22.80	1	C	5,188.21
SPREHK450X355V	450-355	790	300	300	23.40	1	C	4,486.14
SPREHK450X400V	450-400	750	300	300	23.90	1	C	3,801.06
SPREHK500X280V	500-280	861	350	250	28.60	1	C	7,792.72
SPREHK500X315V	500-315	911	350	300	30.40	1	C	7,181.34
SPREHK500X355V	500-355	880	350	300	31.00	1	C	6,096.76
SPREHK500X400V	500-400	850	350	300	31.70	1	C	5,264.34
SPREHK500X450V	500-450	810	350	300	32.50	1	C	4,651.78
SPREHK560X400V	560-400	901	350	300	40.10	1	C	6,764.16
SPREHK560X450V	560-450	860	350	300	40.60	1	C	6,443.91
SPREHK560X500V	560-500	870	350	350	43.30	1	C	5,974.38
SPREHK630X450V	630-450	921	350	300	52.10	1	C	9,917.30
SPREHK630X500V	630-500	931	350	350	54.50	1	C	9,581.80
SPREHK630X560V	630-560	880	350	350	55.30	1	C	8,213.50
SPREHK710X560V	710-560	941	350	350	70.00	1	C	11,525.56
SPREHK710X630V	710-630	880	350	350	70.20	1	C	10,501.30
SPREHK800X630V	800-630	971	350	350	92.10	1	C	13,812.79
SPREHK800X710V	800-710	890	350	350	90.20	1	C	12,675.87
SPREHK900X710V	900-710	1031	400	350	124.60	1	C	20,528.21
SPREHK900X800V	900-800	960	400	350	124.20	1	C	15,955.68
SPREK1000X800V	1000-800	1051	400	350	159.60	1	C	25,376.07
SPREK1000X900V	1000-900	1020	400	400	163.50	1	C	21,048.91

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Eccentric Reducer - Continued

Specification

- PE100
- SDR 33 - Water PN5
- d160x90 - 1200x1000





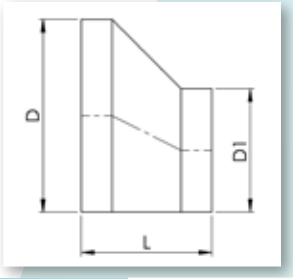
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 33 I Water PN 5								
SPREHK160X90Y	160-90	440	150	150	0.70	1	C	732.58
SPREHK160X110Y	160-110	420	150	150	0.80	1	C	730.70
SPREHK160X125Y	160-125	410	150	150	0.80	1	C	716.70
SPREHK160X140Y	160-140	400	150	150	0.90	1	C	710.67
SPREHK180X110Y	180-110	440	150	150	1.00	1	C	830.61
SPREHK180X125Y	180-125	430	150	150	1.00	1	C	785.55
SPREHK180X140Y	180-140	420	150	150	1.00	1	C	759.34
SPREHK180X160Y	180-160	400	150	150	1.10	1	C	736.25
SPREHK200X125Y	200-125	450	150	150	1.30	1	C	909.17
SPREHK200X140Y	200-140	430	150	150	1.30	1	C	868.95
SPREHK200X160Y	200-160	420	150	150	1.30	1	C	822.71
SPREHK200X180Y	200-180	400	150	150	1.40	1	C	808.70
SPREHK225X140Y	225-140	460	150	150	1.60	1	C	1,068.08
SPREHK225X160Y	225-160	440	150	150	1.60	1	C	1,035.22
SPREHK225X180Y	225-180	420	150	150	1.70	1	C	966.37
SPREHK225X200Y	225-200	410	150	150	1.80	1	C	944.46
SPREHK250X160Y	250-160	570	250	150	2.30	1	C	1,256.25
SPREHK250X180Y	250-180	550	250	150	2.40	1	C	1,237.39
SPREHK250X200Y	250-200	530	250	150	2.50	1	C	1,204.53
SPREHK250X225Y	250-225	510	250	150	2.70	1	C	1,107.67
SPREHK280X180Y	280-180	580	250	150	3.00	1	C	1,431.04
SPREHK280X200Y	280-200	560	250	150	3.10	1	C	1,392.70
SPREHK280X225Y	280-225	540	250	150	3.20	1	C	1,329.95
SPREHK280X250Y	280-250	620	250	250	4.10	1	C	1,284.89
SPREHK315X200Y	315-200	640	300	150	4.10	1	C	1,597.30
SPREHK315X225Y	315-225	620	300	150	4.20	1	C	1,505.30
SPREHK315X250Y	315-250	700	300	250	5.30	1	C	1,456.00
SPREHK315X280Y	315-280	680	300	250	5.60	1	C	1,459.05
SPREHK355X225Y	355-225	660	300	150	5.30	1	C	1,941.33
SPREHK355X250Y	355-250	740	300	250	6.70	1	C	1,823.19
SPREHK355X280Y	355-280	700	300	250	6.70	1	C	1,773.89
SPREHK355X315Y	355-315	730	300	300	7.70	1	C	1,753.16
SPREHK400X250Y	400-250	780	300	250	8.50	1	C	3,578.15
SPREHK400X280Y	400-280	750	300	250	8.60	1	C	3,334.59
SPREHK400X315Y	400-315	770	300	300	9.60	1	C	2,919.28
SPREHK400X355Y	400-355	740	300	300	10.00	1	C	2,581.35
SPREHK450X280Y	450-280	801	300	250	11.10	1	C	5,221.15
SPREHK450X315Y	450-315	820	300	300	12.20	1	C	4,727.84
SPREHK450X355Y	450-355	790	300	300	12.50	1	C	3,922.81
SPREHK450X400Y	450-400	750	300	300	12.80	1	C	3,267.61
SPREHK500X315Y	500-315	911	350	300	15.60	1	C	6,526.07
SPREHK500X355Y	500-355	880	350	300	16.00	1	C	5,460.42
SPREHK500X400Y	500-400	850	350	300	16.60	1	C	4,487.32
SPREHK500X450Y	500-450	810	350	300	17.10	1	C	3,782.76
SPREHK560X400Y	560-400	901	350	300	20.80	1	C	6,105.91
SPREHK560X450Y	560-450	860	350	300	21.20	1	C	5,501.88
SPREHK560X500Y	560-500	876	350	350	23.30	1	C	4,873.99
SPREHK630X450Y	630-450	921	350	300	27.00	1	C	9,072.13
SPREHK630X500Y	630-500	930	350	350	29.20	1	C	8,292.68
SPREHK630X560Y	630-560	880	350	350	29.60	1	C	6,986.44
SPREHK710X560Y	710-560	931	350	350	37.00	1	C	10,165.17
SPREHK710X630Y	710-630	874	350	350	37.30	1	C	9,157.34
SPREHK800X630Y	800-630	971	350	350	49.00	1	C	11,848.30
SPREHK800X710Y	800-710	890	350	350	48.00	1	C	11,104.15
SPREHK900X710Y	900-710	1031	400	350	65.40	1	C	18,598.46
SPREHK900X800Y	900-800	960	400	350	65.10	1	C	13,775.63
SPREK1000X800Y	1000-800	970	400	350	77.80	1	C	22,874.52
SPREK1000X900Y	1000-900	1091	400	400	92.80	1	C	18,258.73
SPREK1200X1000Y	1200-1000	1111	400	400	132.30	1	C	28,035.35

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Eccentric Reducer | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16
- d160x90 - 630x560





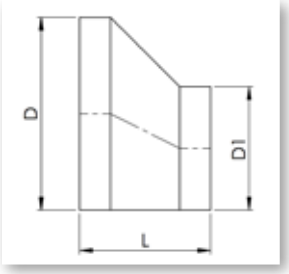
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16						
SSREHK160X90N	160-90	140	0.70	1	C	623.58
SSREHK160X110N	160-110	120	0.60	1	C	613.18
SSREHK160X125N	160-125	110	0.60	1	C	607.15
SSREHK160X140N	160-140	100	0.60	1	C	587.05
SSREHK180X110N	180-110	140	0.90	1	C	643.07
SSREHK180X125N	180-125	130	0.90	1	C	636.97
SSREHK180X140N	180-140	120	0.90	1	C	618.11
SSREHK180X160N	180-160	100	0.80	1	C	595.57
SSREHK200X125N	200-125	154	1.30	1	C	677.18
SSREHK200X140N	200-140	130	1.10	1	C	704.57
SSREHK200X160N	200-160	120	1.10	1	C	602.85
SSREHK200X180N	200-180	100	1.00	1	C	573.59
SSREHK225X140N	225-140	160	1.70	1	C	767.24
SSREHK225X160N	225-160	140	1.50	1	C	732.58
SSREHK225X180N	225-180	120	1.40	1	C	626.01
SSREHK225X200N	225-200	110	1.30	1	C	598.62
SSREHK250X160N	250-160	170	2.30	1	C	895.16
SSREHK250X180N	250-180	150	2.10	1	C	776.39
SSREHK250X200N	250-200	130	1.90	1	C	661.30
SSREHK250X225N	250-225	110	1.70	1	C	615.06
SSREHK280X180N	280-180	180	3.00	1	C	898.21
SSREHK280X200N	280-200	160	2.80	1	C	838.52
SSREHK280X225N	280-225	140	2.50	1	C	710.04
SSREHK280X250N	280-250	120	2.30	1	C	651.59
SSREHK315X200N	315-200	190	4.10	1	C	1,071.75
SSREHK315X225N	315-225	170	3.80	1	C	921.93
SSREHK315X250N	315-250	150	3.50	1	C	853.15
SSREHK315X280N	315-280	130	3.10	1	C	701.51
SSREHK355X225N	355-225	210	5.80	1	C	1,286.06
SSREHK355X250N	355-250	190	5.40	1	C	1,134.50
SSREHK355X280N	355-280	160	4.50	1	C	1,019.41
SSREHK355X315N	355-315	130	4.00	1	C	1,023.01
SSREHK400X250N	400-250	231	8.10	1	C	2,371.82
SSREHK400X280N	400-280	200	9.50	1	C	1,086.25
SSREHK400X315N	400-315	170	7.80	1	C	988.49
SSREHK400X355N	400-355	140	6.30	1	C	951.53
SSREHK450X280N	450-280	251	11.20	1	C	2,779.23
SSREHK450X315N	450-315	220	13.60	1	C	1,622.61
SSREHK450X355N	450-355	190	11.50	1	C	1,512.37
SSREHK450X400N	450-400	150	7.50	1	C	1,569.85
SSREHK500X280N	500-280	261	14.40	1	C	5,528.64
SSREHK500X315N	500-315	260	20.10	1	C	1,783.95
SSREHK500X355N	500-355	230	17.50	1	C	1,660.19
SSREHK500X400N	500-400	200	14.90	1	C	1,574.21
SSREHK500X450N	500-450	160	11.40	1	C	1,450.59
SSREHK560X400N	560-400	251	18.40	1	C	3,771.80
SSREHK560X450N	560-450	210	19.70	1	C	2,060.24
SSREHK560X500N	560-500	170	13.30	1	C	2,254.30
SSREHK630X450N	630-450	271	25.30	1	C	5,636.45
SSREHK630X500N	630-500	250	27.40	1	C	3,158.27
SSREHK630X560N	630-560	180	17.90	1	C	3,060.58

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Eccentric Reducer | Short Spigot - Continued

Specification

- PE100
- SDR 17 - Water PN10
- d160x90 - 1000x900





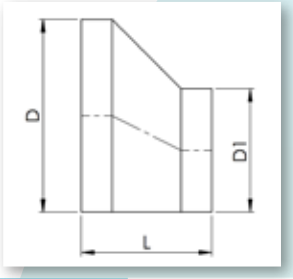
Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 17 | Water PN 10						
SSREHK160X90V	160-90	140	0.50	1	C	623.58
SSREHK160X110V	160-110	120	0.40	1	C	613.18
SSREHK160X125V	160-125	110	0.40	1	C	596.75
SSREHK160X140V	160-140	100	0.40	1	C	583.37
SSREHK180X110V	180-110	140	0.60	1	C	643.07
SSREHK180X125V	180-125	130	0.60	1	C	636.97
SSREHK180X140V	180-140	120	0.60	1	C	615.68
SSREHK180X160V	180-160	100	0.50	1	C	591.27
SSREHK200X125V	200-125	154	0.90	1	C	677.18
SSREHK200X140V	200-140	130	0.80	1	C	704.57
SSREHK200X160V	200-160	120	0.70	1	C	599.18
SSREHK200X180V	200-180	100	0.70	1	C	568.12
SSREHK225X140V	225-140	160	1.20	1	C	767.24
SSREHK225X160V	225-160	140	1.10	1	C	730.15
SSREHK225X180V	225-180	120	0.90	1	C	621.16
SSREHK225X200V	225-200	110	0.90	1	C	591.27
SSREHK250X160V	250-160	170	1.60	1	C	895.16
SSREHK250X180V	250-180	150	1.40	1	C	772.17
SSREHK250X200V	250-200	130	1.30	1	C	655.20
SSREHK250X225V	250-225	110	1.10	1	C	604.66
SSREHK280X180V	280-180	180	2.10	1	C	898.21
SSREHK280X200V	280-200	160	1.90	1	C	834.29
SSREHK280X225V	280-225	140	1.80	1	C	701.51
SSREHK280X250V	280-250	120	1.60	1	C	638.77
SSREHK315X200V	315-200	190	2.80	1	C	1,055.32
SSREHK315X225V	315-225	170	2.60	1	C	915.27
SSREHK315X250V	315-250	150	2.40	1	C	842.19
SSREHK315X280V	315-280	130	2.10	1	C	684.46
SSREHK355X225V	355-225	210	4.00	1	C	1,282.46
SSREHK355X250V	355-250	190	3.80	1	C	1,126.53
SSREHK355X280V	355-280	160	3.30	1	C	1,004.78
SSREHK355X315V	355-315	130	2.70	1	C	875.06
SSREHK400X250V	400-250	231	5.60	1	C	2,328.63
SSREHK400X280V	400-280	200	7.60	1	C	1,086.25
SSREHK400X315V	400-315	170	6.00	1	C	988.49
SSREHK400X355V	400-355	130	4.10	1	C	951.53
SSREHK450X280V	450-280	251	7.80	1	C	2,765.22
SSREHK450X315V	450-315	210	9.90	1	C	1,622.61
SSREHK450X355V	450-355	180	8.10	1	C	1,512.37
SSREHK450X400V	450-400	150	5.10	1	C	1,505.30
SSREHK500X280V	500-280	261	10.00	1	C	5,276.54
SSREHK500X315V	500-315	260	13.60	1	C	1,783.95
SSREHK500X355V	500-355	220	12.80	1	C	1,660.19
SSREHK500X400V	500-400	190	10.60	1	C	1,574.21
SSREHK500X450V	500-450	140	6.90	1	C	1,450.59
SSREHK560X400V	560-400	251	12.80	1	C	3,602.56
SSREHK560X450V	560-450	200	13.90	1	C	2,060.24
SSREHK560X500V	560-500	170	9.30	1	C	1,970.59
SSREHK630X450V	630-450	271	17.60	1	C	5,528.64
SSREHK630X500V	630-500	240	19.70	1	C	3,158.27
SSREHK630X560V	630-560	180	12.30	1	C	2,917.48
SSREHK710X560V	710-560	241	20.50	1	C	5,060.36
SSREHK710X630V	710-630	180	15.70	1	C	3,924.68
SSREHK800X630V	800-630	271	29.40	1	C	5,833.08
SSREHK800X710V	800-710	190	21.10	1	C	4,090.94
SSREHK900X710V	900-710	281	38.30	1	C	7,701.34
SSREHK900X800V	900-800	210	29.70	1	C	5,720.49
SSREK1000X800V	1000-800	301	51.90	1	C	11,744.17
SSREK1000X900V	1000-900	220	38.60	1	C	7,532.10

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Eccentric Reducer | Short Spigot - Continued

Specification

- PE100
- SDR33 - Water PN5
- d160x90 - 1200x1000





Code	D-D1	L	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 33 | Water PN 5						
SSREHK160X90Y	160-90	140	0.30	1	C	623.58
SSREHK160X110Y	160-110	120	0.20	1	C	613.18
SSREHK160X125Y	160-125	110	0.20	1	C	595.57
SSREHK160X140Y	160-140	100	0.20	1	C	580.94
SSREHK180X110Y	180-110	140	0.30	1	C	643.07
SSREHK180X125Y	180-125	130	0.30	1	C	636.97
SSREHK180X140Y	180-140	120	0.30	1	C	613.18
SSREHK180X160Y	180-160	100	0.30	1	C	587.05
SSREHK200X125Y	200-125	150	0.50	1	C	673.50
SSREHK200X140Y	200-140	130	0.40	1	C	646.67
SSREHK200X160Y	200-160	120	0.40	1	C	555.98
SSREHK200X180Y	200-180	100	0.40	1	C	525.55
SSREHK225X140Y	225-140	160	0.60	1	C	716.14
SSREHK225X160Y	225-160	140	0.60	1	C	678.98
SSREHK225X180Y	225-180	120	0.50	1	C	575.47
SSREHK225X200Y	225-200	110	0.50	1	C	545.58
SSREHK250X160Y	250-160	170	0.90	1	C	835.47
SSREHK250X180Y	250-180	150	0.80	1	C	717.32
SSREHK250X200Y	250-200	130	0.70	1	C	606.53
SSREHK250X225Y	250-225	110	0.60	1	C	555.36
SSREHK280X180Y	280-180	180	1.10	1	C	822.71
SSREHK280X200Y	280-200	160	1.00	1	C	774.59
SSREHK280X225Y	280-225	140	0.90	1	C	646.67
SSREHK280X250Y	280-250	120	0.80	1	C	583.99
SSREHK315X200Y	315-200	190	1.50	1	C	982.25
SSREHK315X225Y	315-225	170	1.40	1	C	848.29
SSREHK315X250Y	315-250	150	1.30	1	C	775.77
SSREHK315X280Y	315-280	130	1.20	1	C	623.58
SSREHK355X225Y	355-225	210	2.20	1	C	1,192.95
SSREHK355X250Y	355-250	190	2.00	1	C	1,043.74
SSREHK355X280Y	355-280	150	1.60	1	C	905.49
SSREHK355X315Y	355-315	130	1.50	1	C	796.50
SSREHK400X250Y	400-250	230	3.10	1	C	2,328.63
SSREHK400X280Y	400-280	200	2.70	1	C	1,827.42
SSREHK400X315Y	400-315	160	5.00	1	C	988.49
SSREHK400X355Y	400-355	120	2.40	1	C	951.53
SSREHK450X280Y	450-280	251	4.20	1	C	2,765.22
SSREHK450X315Y	450-315	210	8.34	1	C	1,622.61
SSREHK450X355Y	450-355	170	5.40	1	C	1,512.37
SSREHK450X400Y	450-400	150	2.80	1	C	1,505.30
SSREHK500X280Y	500-280	291	5.90	1	C	5,276.54
SSREHK500X315Y	500-315	260	15.02	1	C	1,783.95
SSREHK500X355Y	500-355	220	10.10	1	C	1,660.19
SSREHK500X400Y	500-400	180	7.10	1	C	1,574.21
SSREHK500X450Y	500-450	130	4.16	1	C	1,450.59
SSREHK560X400Y	560-400	251	6.90	1	C	3,602.56
SSREHK560X450Y	560-450	190	9.40	1	C	2,060.24
SSREHK560X500Y	560-500	140	5.60	1	C	1,970.59
SSREHK630X450Y	630-450	271	9.50	1	C	5,528.64
SSREHK630X500Y	630-500	210	13.50	1	C	3,158.27
SSREHK630X560Y	630-560	180	6.60	1	C	2,917.48
SSREHK710X560Y	710-560	231	10.60	1	C	5,060.36
SSREHK710X630Y	710-630	174	8.20	1	C	3,924.68
SSREHK800X630Y	800-630	271	15.60	1	C	5,833.08
SSREHK800X710Y	800-710	190	11.10	1	C	4,090.94
SSREHK900X710Y	900-710	281	20.70	1	C	7,701.34
SSREHK900X800Y	900-800	210	15.40	1	C	5,720.49
SSREK1000X800Y	1000-800	220	22.10	1	C	11,744.17
SSREK1000X900Y	1000-900	291	26.30	1	C	7,532.10
SSREK1200X100Y	1200-1000	-	42.40	1	C	POA

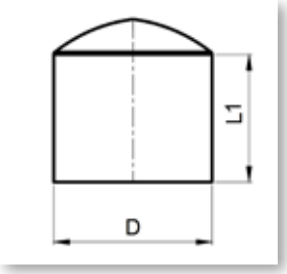
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For more information visit our website www.fusiongroup.com

End Cap

Specification

- PE100
- SDR 11 - Water PN 16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-1200

* Extended with PE100 Pipe





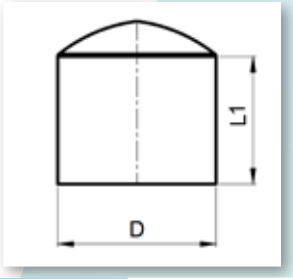
Code	D	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar						
LSECHK20N	20	41	0.01	100	C	4.37
LSECHK25N	25	41	0.01	100	C	4.51
LSECHK32N	32	44	0.02	100	C	5.62
LSECHK40N	40	49	0.04	100	C	6.93
LSECHK50N	50	55	0.05	50	B	8.87
LSECHK63N	63	63	0.09	36	B	11.99
LSECHK75N	75	70	0.14	27	B	22.19
LSECHK90N	90	79	0.23	60	C	26.97
LSECHK110N	110	82	0.35	45	B	34.67
LSECHK125N	125	87	0.55	24	B	40.21
LSECHK140N	140	92	0.76	22	C	50.13
LSECHK160N	160	98	1.04	15	C	52.35
LSECHK180N	180	105	1.40	12	B	74.19
LSECHK200N	200	112	1.89	10	C	92.21
LSECHK225N	225	120	2.60	9	C	110.38
LSECHK250N	250	129	3.29	4	B	128.27
LSECHK280N	280	139	4.63	3	C	180.75
LSECHK315N	315	150	6.12	3	B	247.52
LSECHK355N	355	164	8.98	1	C	388.27
LSECHK400N	400	179	12.59	1	C	551.96
LSECHK450N	*450	300	27.20	1	C	2,018.64
LSECHK500N	*500	350	38.50	1	C	2,050.10
LSECHK560N	*560	350	50.50	1	C	3,061.76
LSECHK630N	*630	350	64.90	1	C	3,723.13
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar						
LSECHK50V	50	55	0.03	40	C	13.80
LSECHK63V	63	63	0.08	36	C	11.37
LSECHK75V	75	70	0.12	27	C	21.08
LSECHK90V	90	79	0.17	60	C	25.58
LSECHK110V	110	82	0.26	45	B	32.93
LSECHK125V	125	87	0.43	24	C	38.20
LSECHK140V	140	92	0.64	22	C	47.63
LSECHK160V	160	98	0.82	15	B	49.78
LSECHK180V	180	105	1.11	12	C	70.51
LSECHK200V	200	112	1.51	10	C	87.71
LSECHK225V	225	120	2.06	9	C	104.83
LSECHK250V	250	129	2.60	4	C	121.82
LSECHK280V	280	139	3.73	3	C	171.81
LSECHK315V	315	150	5.02	3	C	235.18
LSECHK355V	355	164	7.61	1	B	375.72
LSECHK400V	400	179	10.35	1	C	524.37
LSECHK450V	*450	300	21.10	1	C	1,731.25
LSECHK500V	*500	350	29.00	1	C	2,064.95
LSECHK560V	*560	350	38.50	1	C	2,618.44
LSECHK630V	*630	350	52.30	1	C	3,138.51
LSECHK710V	*710	350	70.00	1	C	4,941.59
LSECHK800V	*800	350	95.80	1	C	6,373.26
LSECHK900V	*900	400	136.80	1	C	8,121.57
LSECHK1000V	*1000	400	179.70	1	C	POA
LSECHK1200V	*1200	400	261.10	1	C	POA

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End Cap - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR9 - Water PN20
- d25-315





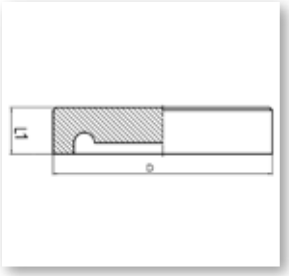
Code	D	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25						
LSECHK25T	25	49	0.03	150	C	14.70
LSECHK32T	32	51	0.03	150	C	20.11
LSECHK40T	40	61	0.04	80	C	23.57
LSECHK50T	50	58	0.08	130	C	27.11
LSECHK63T	63	71	0.14	76	C	34.74
LSECHK75T	75	78	0.20	48	C	50.89
LSECHK90T	90	81	0.30	32	C	82.23
LSECHK110T	110	93	0.53	45	C	110.10
LSECHK125T	125	89	0.67	36	C	118.42
LSECHK140T	140	104	0.97	33	C	173.40
LSECHK160T	160	117	1.52	14	C	187.34
LSECHK180T	180	103	1.78	12	C	246.34
LSECHK200T	200	132	2.64	6	C	274.70
LSECHK225T	225	118	3.10	6	C	331.41
LSECHK250T	250	117	3.89	6	C	368.44
LSECHK280T	280	136	4.36	3	C	560.28
LSECHK315T	315	156	4.65	3	C	773.97
PE100 I SDR 9 I Water PN 20						
LSECHK63R	63	71	0.13	76	C	32.73
LSECHK75R	75	78	0.19	48	C	47.98
LSECHK90R	90	81	0.29	32	C	77.72
LSECHK110R	110	93	0.50	45	C	103.86
LSECHK125R	125	89	0.64	36	C	111.70
LSECHK140R	140	104	0.92	33	C	166.19
LSECHK160R	160	117	1.44	14	C	176.59
LSECHK180R	180	103	1.69	12	C	233.31
LSECHK200R	200	132	2.51	6	C	259.45
LSECHK225R	225	118	2.95	6	C	313.94
LSECHK250R	250	117	3.70	6	C	348.82
LSECHK280R	280	136	4.14	3	C	529.78
LSECHK315R	315	156	4.42	3	C	730.36

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End Cap | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / (Gas 10 Bar - Upon request)
- SDR 17 - Water PN10 / (Gas 6 Bar - Upon request)
- SDR 7.4 - Water PN25
- SDR 9 - Water PN20
- SDR 33 - Water PN5
- d250-1200





Code	D	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | (Gas 10 Bar - Upon request)						
SSECHK250N	250	55	2.65	1	C	308.67
SSECHK280N	280	20	3.20	1	C	562.64
SSECHK315N	315	20	4.40	1	C	602.85
SSECHK355N	355	20	6.50	1	C	783.74
SSECHK400N	400	20	8.80	1	C	984.67
SSECHK450N	450	20	12.60	1	C	1,043.12
SSECHK500N	500	20	17.30	1	C	1,292.79
SSECHK560N	560	20	24.00	1	C	1,620.39
SSECHK630N	630	30	34.10	1	C	2,009.56
SSECHK710N	710	30	48.8	1	C	POA
SSECHK800N	800	30	68.9	1	C	POA
PE100 | SDR 17 | Water PN 10 | (Gas 6 Bar - Upon request)						
SSECHK250V	250	50	1.66	1	C	279.90
SSECHK280V	280	20	2.80	1	C	541.35
SSECHK315V	315	20	3.90	1	C	580.94
SSECHK355V	355	20	5.40	1	C	728.90
SSECHK400V	400	20	7.40	1	C	915.27
SSECHK450V	450	20	10.90	1	C	949.94
SSECHK500V	500	20	14.30	1	C	1,192.33
SSECHK560V	560	20	20.10	1	C	1,497.39
SSECHK630V	630	30	28.90	1	C	1,856.05
SSECHK710V	710	30	40.3	1	C	POA
SSECHK800V	800	30	58.2	1	C	POA
SSECHK900V	900	30	82.40	1	C	POA
SSECHK1000V	1000	30	112.40	1	C	POA
SSECHK1200V	1200	92	164.40	1	C	POA
PE100 | SDR 7.4 | Water PN 25						
SSECHK355T	355	20	8.16	1	C	POA
SSECHK400T	400	20	11.53	1	C	POA
SSECHK450T	450	20	16.03	1	C	POA
PE100 | SDR 9 | Water PN 20						
SSECHK355R	355	20	7.07	1	C	POA
SSECHK400R	400	20	10.14	1	C	POA
SSECHK450R	450	20	14.26	1	C	POA
PE100 | SDR 33 | Water PN 5						
SSECHK280Y	280	20	2.10	1	C	343.48
SSECHK315Y	315	20	2.70	1	C	361.71
SSECHK355Y	355	20	3.80	1	C	521.25
SSECHK400Y	400	20	5.50	1	C	662.55
SSECHK450Y	450	20	7.60	1	C	949.94
SSECHK500Y	500	20	10.30	1	C	1,192.33
SSECHK560Y	560	20	15.20	1	C	1,497.39
SSECHK630Y	630	30	21.00	1	C	1,856.05
SSECHK710Y	710	30	30.20	1	C	3,022.79
SSECHK800Y	800	30	43.00	1	C	4,144.47
SSECHK900Y	900	30	60.20	1	C	4,786.36
SSECHK1000Y	1000	30	81.20	1	C	POA
SSECHK1200Y	1200	92	109.60	1	C	POA

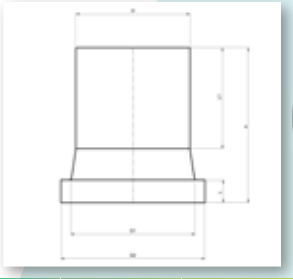
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Stub Flange Adaptor

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-1200

* Short spigot - extended with PE100 Pipe and certified components in accordance to European Norms.





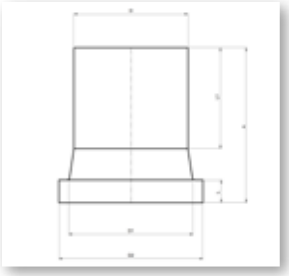
Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar										
SFHK20N	20	28	45	7	55	80	0.03	150	B	4.65
SFHK25N	25	34	58	9	62	81	0.04	50	C	4.71
SFHK32N	32	42	68	10	61	86	0.06	40	C	4.92
SFHK40N	40	51	78	11	60	88	0.09	100	B	5.75
SFHK50N	50	62	88	12	63	92	0.13	100	B	7.42
SFHK63N	63	78	102	14	88	120	0.22	60	A	9.01
SFHK75N	75	92	122	16	97	130	0.33	45	B	11.30
SFHK90N	90	108	138	17	103	140	0.46	45	A	14.98
SFHK110N	110	125	158	18	113	155	0.69	24	A	18.79
SFHK125N	125	135	158	20	120	159	0.82	16	A	23.23
SFHK140N	140	155	188	25	128	190	1.33	12	B	32.10
SFHK160N	160	175	212	25	155	200	1.62	12	A	35.01
SFHK180N	180	188	212	30	152	207	2.02	8	B	53.39
SFHK200N	200	232	268	32	153	210	3.09	4	A	65.59
SFHK225N	225	238	268	32	129	180	2.98	4	A	71.76
SFHK250N	250	288	320	35	140	205	4.52	3	A	107.67
SFHK280N	280	288	320	35	145	211	5.11	3	B	144.98
SFHK315N	315	338	375	35	160	224	6.93	2	A	182.83
SFHK355N	355	376	435	45	172	240	10.00	1	B	302.22
SFHK400N	400	430	485	50	181	264	14.40	1	C	417.94
SFHK450NE	450(DN500)	514	585	60	200	306	22.90	1	C	1,750.74
SFHK450NP	*450	465	545	66	195	360	21.77	1	C	567.84
SFHK500N	500	530	585	60	250	346	26.30	1	C	1,556.46
SFHK500NP	*500	530	590	60	212	354	25.06	1	C	628.30
SFHK560N	560	615	685	60	290	400	39.70	1	C	2,623.37
SFHK560NP	*560	618	690	80	235	423	38.80	1	C	792.76
SFHK630N	630	642	685	60	300	390	42.50	1	C	2,269.56
SFHK630NP	*630	645	690	65	255	404	42.40	1	C	937.80
SFHK710N	710	737	800	60	330	430	61.40	1	C	4,363.70
SFHK800N	800	840	905	65	380	482	88.60	1	C	5,342.90
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar										
SFHK50V	50	60	88	12	62	90	0.11	10	C	13.03
SFHK63V	63	78	102	14	88	120	0.18	60	B	8.46
SFHK75V	75	92	122	16	97	130	0.28	45	B	10.61
SFHK90V	90	108	139	17	106	140	0.37	45	A	14.14
SFHK110V	110	125	158	17	113	155	0.55	24	A	17.61
SFHK125V	125	135	158	20	120	160	0.64	16	A	21.91
SFHK140V	140	155	188	18	128	188	1.04	12	B	30.16
SFHK160V	160	175	212	18	147	185	1.13	12	A	32.93
SFHK180V	180	188	212	20	111	153	1.15	12	B	50.13
SFHK200V	200	230	268	24	125	188	2.12	4	B	61.57
SFHK225V	225	238	268	24	156	205	2.39	4	B	67.46
SFHK250V	250	288	320	25	133	186	3.00	3	B	101.16
SFHK280V	280	288	320	25	148	213	3.67	3	C	136.31
SFHK315V	315	338	375	25	166	223	4.95	2	B	171.95
SFHK355V	355	376	435	30	174	227	9.44	1	B	279.83
SFHK400V	400	430	485	33	185	242	9.43	1	B	387.02
SFHK450VE	450(DN500)	514	585	46	195	301	16.50	1	C	1,518.75
SFHK450VP	*450	465	545	45	195	335	14.26	1	C	511.54
SFHK500V	500	530	585	46	212	308	16.90	1	C	1,372.59
SFHK500VP	*500	530	590	46	212	339	16.88	1	C	555.08
SFHK560V	560	615	685	50	235	345	25.60	1	C	2,018.09
SFHK560VP	*560	618	690	50	235	373	24.17	1	C	702.97
SFHK630V	630	642	685	50	300	390	29.40	1	C	1,949.86
SFHK630VP	*630	645	690	50	255	384	28.42	1	C	811.20
SFHK710V	710	737	800	50	325	425	42.40	1	C	3,626.27
SFHK800V	800	840	905	52	360	462	58.50	1	C	4,372.23
SFHK900V	900	944	1005	55	360	485	77.20	1	C	5,813.60
SFHK1000V	1000	1047	1110	60	395	525	102.20	1	C	7,241.03
SFHK1200V	1200	1245	1330	70	500	600	165.10	1	C	10,577.84

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Stub Flange Adaptor - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR9 - Water PN20
- d25-315





Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 7.4 I Water PN 25										
SFHK25T	25	33	59	10	45	69	0.04	70	C	22.12
SFHK32T	32	40	68	11	56	82	0.06	50	C	22.95
SFHK40T	40	50	78	12	56	80	0.14	30	C	24.47
SFHK50T	50	61	88	13	55	87	0.16	100	C	25.58
SFHK63T	63	75	102	16	63	101	0.24	60	C	27.11
SFHK75T	75	89	122	18	73	113	0.39	40	C	31.62
SFHK90T	90	105	138	20	82	126	0.58	30	C	41.05
SFHK110T	110	125	158	21	91	138	0.91	24	C	53.94
SFHK125T	125	134	158	28	101	152	1.09	20	C	65.94
SFHK140T	140	155	188	29	102	164	1.59	12	C	81.61
SFHK160T	160	175	212	29	106	168	2.15	12	C	97.07
SFHK180T	180	180	212	32	108	178	2.46	6	C	141.51
SFHK200T	200	232	268	34	119	200	3.98	75	C	185.33
SFHK225T	225	235	268	34	120	193	4.24	70	C	287.80
SFHK250T	250	285	320	37	129	202	6.52	50	C	359.70
SFHK280T	280	291	320	42	140	210	6.84	40	C	503.64
SFHK315T	315	335	370	47	157	230	9.93	24	C	671.49
PE100 I SDR 9 I Water PN 20										
SFHK63R	63	75	102	16	63	101	0.22	60	C	28.36
SFHK75R	75	89	122	18	73	113	0.34	40	C	33.14
SFHK90R	90	105	138	20	82	126	0.49	30	C	43.68
SFHK110R	110	125	158	21	91	138	0.79	24	C	55.54
SFHK125R	125	134	158	28	101	152	0.97	20	C	67.88
SFHK140R	140	155	188	29	102	164	1.40	12	C	85.35
SFHK160R	160	175	212	29	106	168	1.78	12	C	101.64
SFHK180R	180	180	212	32	108	178	2.20	6	C	148.03
SFHK200R	200	232	268	34	119	200	3.72	75	C	190.74
SFHK225R	225	235	268	34	120	193	3.83	70	C	261.66
SFHK250R	250	285	320	37	129	202	5.44	50	C	327.05
SFHK280R	280	291	320	42	140	210	6.10	40	C	457.81
SFHK315R	315	335	370	47	157	230	8.43	24	C	610.41

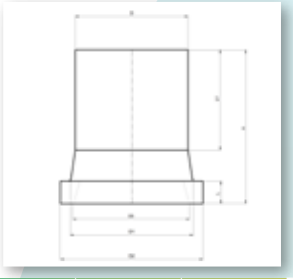
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Stub Flange Adaptor | Chamfered
Suitable for Butterfly Valves

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d160-630

* Short spigot - extended with PE100 Pipe and certified components in accordance to European Norms.





Code	D	D1	D2	D3	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | Gas 10 Bar											
SFHK160NBF	160	175	212	154	25	155	200	1.68	12	C	35.01
SFHK200NBF	200	232	268	208	32	153	210	2.85	4	C	65.59
SFHK225NBF	225	238	268	208	32	129	180	2.84	4	C	71.76
SFHK250NBF	250	288	320	260	35	140	205	3.97	3	C	107.67
SFHK280NBF	280	288	320	260	35	145	211	5.00	3	C	144.98
SFHK315NBF	315	338	375	305	35	160	224	6.36	2	C	182.83
SFHK355NBF	355	376	435	345	45	172	240	9.49	1	C	302.22
SFHK400NBF	400	430	485	396	50	181	264	13.16	1	C	417.94
SFHK450NBFP	*450	465	545	442	66	195	360	21.77	1	C	567.84
SFHK450NBFEP	*450 (DN500)	517	585	480	65	195	360	22.89	1	C	567.84
SFHK500NBFP	*500	530	590	494	60	212	354	25.06	1	C	628.30
SFHK560NBFP	*560	618	690	580	80	235	423	38.80	1	C	792.76
SFHK630NBFP	*630	645	690	576	65	255	404	42.40	1	C	937.80
PE100 | SDR 17 | Water PN 10 | Gas 6 Bar											
SFHK160VBF	160	175	212	154	18	147	185	1.13	12	C	32.93
SFHK200VBF	200	230	268	208	24	125	188	1.96	4	B	61.57
SFHK225VBF	225	238	268	208	24	156	205	2.36	4	C	67.46
SFHK250VBF	250	288	320	260	25	133	186	2.60	3	B	101.16
SFHK280VBF	280	288	320	260	25	148	213	3.62	3	C	136.31
SFHK315VBF	315	338	375	305	25	166	223	4.78	2	C	171.95
SFHK355VBF	355	376	435	350	30	174	227	6.55	1	B	279.83
SFHK400VBF	400	430	485	396	33	185	242	8.79	1	C	387.02
SFHK450VBFP	*450	465	545	442	45	195	335	14.26	1	C	511.54
SFHK450VBFEP	*450 (DN500)	517	585	485	45	195	335	15.72	1	C	511.54
SFHK500VBFP	*500	530	590	497	46	212	339	16.88	1	C	555.08
SFHK560VBFP	*560	618	690	580	50	235	373	24.17	1	C	702.97
SFHK630VBFP	*630	645	690	585	50	255	384	28.42	1	C	811.20

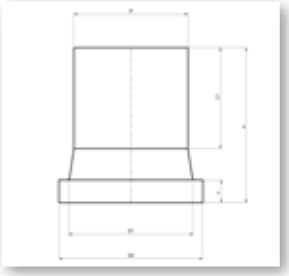
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Stub Flange Adaptor | Australian Design

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR17 - Water PN10 / Gas 6 Bar
- d40-630

* Short spigot - extended with PE100 Pipe and certified components in accordance to European Norms.





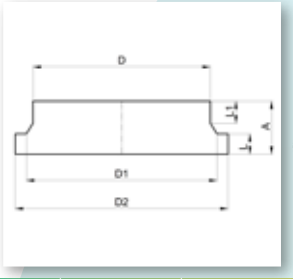
Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | Gas 10 Bar										
SFHK40NA	40	51	73	11	60	88	0.08	100	C	5.75
SFHK50NA	50	62	82	12	63	92	0.12	100	C	7.42
SFHK63NA	63	78	100	14	88	120	0.21	60	C	9.01
SFHK75NA	75	92	119	16	97	130	0.27	45	C	11.30
SFHK90NA	90	108	132	17	103	140	0.43	45	C	14.98
SFHK560NAP	*560	580	654	80	235	423	38.40	1	C	792.76
SFHK630NAP	*630	650	710	65	255	404	43.50	1	C	937.80
PE100 | SDR 17 | Water PN 10 | Gas 6 Bar										
SFHK63VA	63	78	100	14	88	120	0.21	60	C	9.01
SFHK75VA	75	92	119	16	97	130	0.21	45	C	11.30
SFHK90VA	90	108	132	17	106	140	0.35	45	C	14.98
SFHK560VAP	*560	580	654	80	235	423	24.17	1	C	702.97
SFHK630VAP	*630	650	710	50	255	404	29.22	1	C	811.20

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Stub Flange Adaptor | Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR 17 - Water PN10 / Gas 6 Bar
- d20-1200





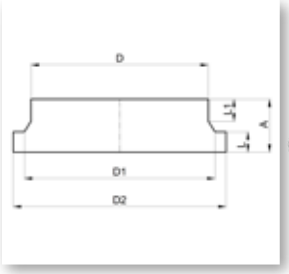
Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | Gas 10 Bar										
SSSFHK20N	20	27	45	7	30	52	0.02	100	C	6.10
SSSFHK25N	25	33	58	9	27	53	0.04	50	C	6.31
SSSFHK32N	32	40	68	10	28	52	0.05	40	C	7.00
SSSFHK40N	40	50	78	11	25	51	0.07	25	C	8.11
SSSFHK50N	50	61	88	12	30	56	0.10	15	C	9.71
SSSFHK63N	63	75	102	14	23	60	0.16	100	C	11.23
SSSFHK75N	75	89	122	16	25	67	0.24	50	C	13.38
SSSFHK90N	90	105	138	17	26	70	0.31	45	C	19.00
SSSFHK110N	110	125	158	18	25	74	0.46	40	C	22.19
SSSFHK125N	125	132	158	25	31	71	0.50	28	C	26.14
SSSFHK140N	140	155	188	25	30	86	0.56	24	C	34.39
SSSFHK160N	160	175	212	25	25	84	1.01	24	C	40.07
SSSFHK180N	180	180	212	30	34	97	1.28	10	C	65.73
SSSFHK200N	200	232	268	32	50	120	2.08	6	C	52.42
SSSFHK225N	225	238	268	32	53	120	2.13	6	C	57.41
SSSFHK250N	250	288	320	35	45	120	3.22	5	C	80.70
SSSFHK280N	280	288	320	35	46	120	3.17	5	C	101.50
SSSFHK315N	315	338	375	35	47	120	4.38	4	C	127.92
SSSFHK355N	355	376	435	45	45	120	6.10	2	C	205.57
SSSFHK400N	400	430	485	50	40	124	8.87	2	C	284.20
SSSFHK450N	450	465	545	66	40	140	9.47	1	C	476.46
SSSFHK450NE	450 (DN500)	517	585	65	40	160	12.38	1	C	476.46
SSSFHK500N	500	530	590	60	40	134	13.49	1	C	495.32
SSSFHK560N	560	618	690	80	43	180	19.89	1	C	611.73
SSSFHK630N	630	645	690	65	45	140	18.24	1	C	670.25
SSSFHK710N	710	737	800	75	35	150	27.68	9	C	2,014.34
SSSFHK800N	800	840	905	80	30	150	35.68	7	C	3,147.39
SSSFHK900N	900	944	1006	90	28	158	46.61	7	C	4,578.08
SSSFHK1000N	1000	1047	1110	95	20	190	67.3	1	C	5,913.30
SSSFHK1200N	1200	1245	1330	110	30	215	108.68	1	C	10,491.31
PE100 | SDR 17 | Water PN 10 | Gas 6 Bar										
SSSFHK50V	50	61	88	12	30	56	0.08	15	C	8.81
SSSFHK63V	63	75	102	14	27	64	0.14	100	C	10.95
SSSFHK75V	75	89	122	16	27	67	0.22	50	C	13.03
SSSFHK90V	90	105	138	17	26	68	0.30	45	C	17.82
SSSFHK110V	110	125	158	18	25	73	0.40	30	C	20.87
SSSFHK125V	125	132	158	18	30	71	0.39	28	C	24.47
SSSFHK140V	140	155	188	18	30	80	0.53	24	C	31.34
SSSFHK160V	160	175	212	18	25	75	0.67	24	C	37.09
SSSFHK180V	180	180	212	20	30	87	0.81	10	C	61.71
SSSFHK200V	200	230	268	24	57	120	1.59	6	C	49.78
SSSFHK225V	225	238	268	24	61	120	1.55	6	C	54.50
SSSFHK250V	250	288	320	25	55	120	2.25	5	C	76.61
SSSFHK280V	280	288	320	25	56	120	2.27	5	C	96.37
SSSFHK315V	315	338	375	25	57	120	3.02	4	C	121.54
SSSFHK355V	355	376	435	30	60	120	4.30	2	B	195.24
SSSFHK400V	400	430	485	33	52	120	5.13	2	C	269.98
SSSFHK450V	450	465	545	45	40	134	7.27	1	C	453.79
SSSFHK450VE	450 (DN500)	517	585	45	40	134	8.60	1	C	453.79
SSSFHK500V	500	530	590	46	45	120	9.45	1	C	471.74
SSSFHK560V	560	618	690	50	36	130	13.20	1	C	583.16
SSSFHK630V	630	645	690	50	45	120	11.90	1	C	638.42
SSSFHK710V	710	737	801	52	35	128	17.80	10	C	1,217.01
SSSFHK800V	800	840	906	53	40	125	22.40	8	C	1,699.64
SSSFHK900V	900	944	1006	59	40	130	29.50	7	C	2,308.11
SSSFHK1000V	1000	1047	1111	65	40	135	36.80	1	C	3,546.05
SSSFHK1200V	1200	1245	1330	70	40	140	52.40	1	C	5,785.03

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Stub Flange Adaptor | Short Spigot - Continued

Specification

- PE100
- SDR 7.4 - Water PN25
- SDR9 - Water PN20
- SDR26 - Water PN6
- d160-1200





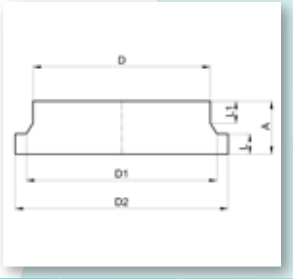
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PE100 I SDR 7.4 I Water PN 25										
SSSFHK280T	280	291	320	42	66	138	4.35	74	C	381.54
SSSFHK315T	315	335	370	47	77	155	7.47	48	C	425.15
SSSFHK355T	355	373	430	53	52	146	8.31	40	C	545.03
SSSFHK400T	400	427	482	60	33	133	9.72	28	C	1,063.85
SSSFHK450TE	450 (DN500)	514	658	67	60	160	19.72	18	C	1,678.63
SSSFHK500T	500	530	616	74	60	155	20.4	1	C	1,822.50
SSSFHK560T	560	615	723	83	54	175	-	1	C	POA
SSSFHK630T	630	-	-	-	-	-	-	1	C	POA
PE100 I SDR 9 I Water PN 20										
SSSFHK280R	280	291	320	42	66	138	4.00	74	C	359.70
SSSFHK315R	315	335	370	47	77	155	6.00	48	C	401.16
SSSFHK355R	355	373	430	53	52	146	7.21	40	C	512.30
SSSFHK400R	400	427	482	60	33	133	9.50	28	C	967.96
SSSFHK450RE	450 (DN500)	514	658	67	60	160	16.29	18	C	1,526.03
SSSFHK500R	500	530	616	65	61	147	18.2	1	C	1,656.86
SSSFHK560R	560	615	723	70	54	165	-	1	C	POA
SSSFHK630R	630	-	-	-	-	-	-	1	C	POA
PE100 I SDR 26 I Water PN 6										
SSSFHK160W	160	175	206	14	25	70	0.61	24	C	35.50
SSSFHK180W	180	184	206	16	30	86	0.50	16	C	59.00
SSSFHK200W	200	232	261	19	41	108	1.13	7	C	72.38
SSSFHK225W	225	235	261	19	32	99	0.89	8	C	77.93
SSSFHK250W	250	285	316	20	38	109	1.62	6	C	101.02
SSSFHK280W	280	291	316	20	63	114	1.50	74	C	106.29
SSSFHK315W	315	335	372	20	64	119	2.40	54	C	127.30
SSSFHK355W	355	373	422	24	51	118	3.75	45	C	162.17
SSSFHK400W	400	427	472	26	46	118	3.66	28	C	305.21
SSSFHK450WE	450 (DN500)	514	577	36	63	140	9.18	18	C	568.12
SSSFHK500W	500	520	577	36	72	137	6.79	20	C	457.81
SSSFHK560W	560	615	678	40	54	132	10.78	13	C	591.34
SSSFHK630W	630	642	678	40	46	121	8.02	13	C	619.98
SSSFHK710W	710	737	782	42	40	125	12.24	10	C	915.62
SSSFHK800W	800	840	888	43	30	120	15.60	8	C	1,331.48
SSSFHK900W	900	944	988	47	40	130	20.52	7	C	1,640.50
SSSFHK1000W	1000	1047	1088	52	40	130	24.40	1	C	2,002.90
SSSFHK1200W	1200	1245	1305	63	35	153	-	1	C	3,357.26

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Stub Flange Adaptor | Short Spigot - Continued

Specification

- PE100
- SDR33 - Water PN5
- d110-1200





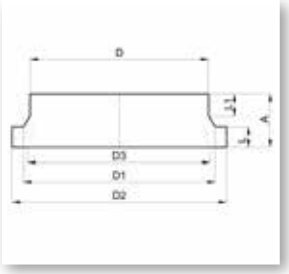
Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 33 I Water PN 5										
SSSFHK110Y	110	125	158	18	37	83	0.31	16	C	22.46
SSSFHK125Y	125	132	158	18	44	87	0.31	14	C	27.04
SSSFHK140Y	140	155	188	18	35	83	0.42	12	C	31.20
SSSFHK160Y	160	175	212	18	43	95	0.58	8	C	38.48
SSSFHK180Y	180	184	212	18	62	TBC	0.54	8	C	55.81
SSSFHK200Y	200	232	268	18	60	121	1.20	8	C	66.84
SSSFHK225Y	225	235	268	18	65	121	0.96	8	C	74.95
SSSFHK250Y	250	285	320	20	60	119	1.77	5	C	105.46
SSSFHK280Y	280	291	320	20	71	118	1.38	5	C	113.36
SSSFHK315Y	315	335	370	20	86	165	2.49	3	C	137.49
SSSFHK355Y	355	373	430	23	100	180	3.59	4	C	231.57
SSSFHK400Y	400	427	482	26	100	195	5.44	2	C	499.48
SSSFHK450YE	450	514	585	33	60	139	7.47	2	C	586.70
SSSFHK500Y	500	530	585	38	60	138	6.56	2	C	714.48
SSSFHK560Y	560	615	685	40	60	139	9.84	10	C	743.95
SSSFHK630Y	630	642	685	35	45	120	6.40	1	C	885.39
SSSFHK710Y	710	737	800	35	35	120	9.70	1	C	1,415.16
SSSFHK800Y	800	840	905	36	34	120	12.90	1	C	1,487.69
SSSFHK900Y	900	944	1005	40	30	140	18.30	1	C	2,124.65
SSSFHK1000Y	1000	1047	1110	42	28	140	22.30	1	C	3,483.17
SSSFHK1200Y	1200	1245	1330	50	60	140	31.50	1	C	5,634.58

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Stub Flange Adaptor | Chamfered | Short Spigot
Suitable for Butterfly Valves

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR17 - Water PN10 / Gas 6 Bar
- d200-1000





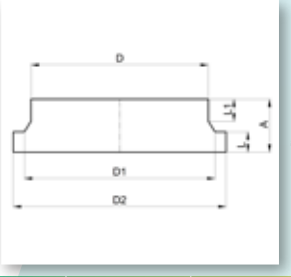
Code	D	D1	D2	D3	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR 11 | Water PN 16 | Gas 10 Bar											
SSSFHK200NBF	200	232	268	208	32	50	120	1.84	6	C	52.42
SSSFHK225NBF	225	238	268	208	32	53	120	2.01	6	C	57.41
SSSFHK250NBF	250	288	320	260	35	45	120	2.64	5	C	80.70
SSSFHK280NBF	280	288	320	260	35	46	120	2.99	5	C	101.50
SSSFHK315NBF	315	338	375	305	35	47	120	3.86	4	C	127.92
SSSFHK355NBF	355	376	435	345	45	45	120	5.59	2	C	205.57
SSSFHK400NBF	400	430	485	396	50	40	124	7.64	2	C	284.20
SSSFHK450NBF	450	465	545	442	66	40	140	10.08	1	C	449.49
SSSFHK450NBFE	450 (DN500)	517	585	480	65	40	160	13.00	1	C	449.49
SSSFHK500NBF	500	530	590	494	60	40	134	11.31	1	C	467.24
SSSFHK560NBF	560	618	690	580	80	43	180	20.57	1	C	577.13
SSSFHK630NBF	630	645	690	576	65	45	140	16.45	1	C	632.32
SSSFHK710NBF	710	740	800	663	75	40	154	22.35	1	C	1,210.98
PE100 | SDR 17 | Water PN 10 | Gas 6 Bar											
SSSFHK200VBF	200	230	268	208	24	57	120	1.42	6	C	49.78
SSSFHK225VBF	225	238	268	208	24	61	120	1.52	6	C	54.50
SSSFHK250VBF	250	288	320	260	25	55	120	1.90	5	C	76.61
SSSFHK280VBF	280	288	320	260	25	56	120	2.23	5	C	96.37
SSSFHK315VBF	315	338	375	305	25	57	120	2.85	4	C	121.54
SSSFHK355VBF	355	376	435	350	30	60	120	3.98	2	C	195.24
SSSFHK400VBF	400	430	485	396	33	52	120	3.98	2	C	269.98
SSSFHK450VBF	450	465	545	442	45	40	134	6.56	1	C	428.13
SSSFHK450VBFE	450 (DN500)	517	585	485	45	40	134	8.60	1	C	428.13
SSSFHK500VBF	500	530	590	497	46	45	120	7.84	1	C	445.05
SSSFHK560VBF	560	618	690	580	50	36	130	11.28	1	C	550.16
SSSFHK630VBF	630	645	690	585	50	45	120	11.07	1	C	602.30
SSSFHK710VBF	710	740	800	670	50	40	130	15.64	1	C	1,213.96
SSSFHK800VBF	800	843	905	780	60	45	140	20.84	1	C	1,507.51
SSSFHK900VBF	900	947	1005	884	60	45	150	25.95	1	C	1,852.45
SSSFHK1000VBF	1000	1050	1112	972	65	45	165	34.88	1	C	2,430.34

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For more information visit our website www.fusiongroup.com

Stub Flange Adaptor | Australian Design
Short Spigot

Specification

- PE100
- SDR 11 - Water PN16 / Gas 10 Bar
- SDR17- Water PN10 / Gas 6 Bar
- d560-630





Code	D	D1	D2	L	L1	A	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR 11 I Water PN 16 I Gas 10 Bar										
SSSFHK560NA	560	580	654	80	43	180	17.4	1	C	577.13
SSSFHK630NA	630	650	710	65	45	140	20.07	1	C	632.32
PE100 I SDR 17 I Water PN 10 I Gas 6 Bar										
SSSFHK560VA	560	580	654	80	43	180	11.21	1	C	583.16
SSSFHK630VA	630	650	710	50	45	120	12.39	1	C	638.42

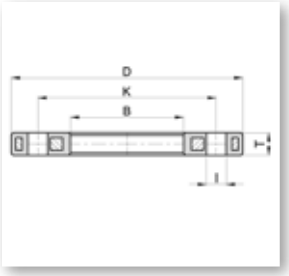
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Flange | Polypropylene with Steel Core

Specification

- EN1092-1 - PN 16 Drilling
- EN1092-1 - PN 10 Drilling
- ANSI B16.5 - C150 Drilling
- d20-630 (Pipe Diameter)

Sizes d710 and above available upon request





Code	Pipe Diameter	DN	D	B	K	T	Number of Holes	Inner Bolt Dimension	I	Bolt Diameter	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm		mm	mm				£ GBP
Polypropylene with Steel Core | PN10 | EN 1092-1 - Drilling													
PBR200X200NP10	200	200	340	235	295	27	8	273	22	M20	2	C	149.18
PBR225X200NP10	225	200	340	238	295	27	8	273	22	M20	2	C	149.18
PBR250X250NP10	250	250	395	288	350	30	12	328	22	M20	2	C	189.93
PBR280X250NP10	280	250	395	294	350	30	12	328	22	M20	2	C	189.93
PBR315X300NP10	315	300	445	338	400	34	12	378	22	M20	1	C	300.36
PBR355X350NP10	355	350	505	376	460	40	16	438	22	M20	1	C	593.53
PBR400X400NP10	400	400	565	430	515	40	16	489	26	M24	1	C	692.37
PBR450X500NP10	450	500	678	517	620	45	20	594	26	M24	1	C	952.98
PBR500X500NP10	500	500	670	533	620	45	20	594	26	M24	1	C	952.98
PBR560X600NP10	560	600	780	618	725	50	20	695	30	M27	1	C	1,703.73
PBR630X600NP10	630	600	780	645	725	50	20	695	30	M27	1	C	1,703.73
Polypropylene with Steel Core | PN16 | EN 1092-1													
PBR020X015NP16	20	15	95	28	65	12	4	51	14	M12	56	C	15.23
PBR025X020NP16	25	20	105	34	75	12	4	61	14	M12	48	C	15.39
PBR032X025NP16	32	25	115	42	85	16	4	71	14	M12	25	C	19.18
PBR040X032NP16	40	32	140	51	100	16	4	82	18	M16	18	C	22.81
PBR050X040NP16	50	40	150	62	110	18	4	92	18	M16	15	C	27.14
PBR063X050NP16	63	50	165	78	125	18	4	107	18	M16	12	C	35.96
PBR075X065NP16	75	65	188	92	145	18	4	127	18	M16	8	C	40.60
PBR090X080NP16	90	80	204	108	160	20	8	142	18	M16	7	B	48.26
PBR110X100NP16	110	100	224	128	180	20	8	162	18	M16	7	B	62.87
PBR125X100NP16	125	100	224	135	180	20	8	162	18	M16	7	C	62.87
PBR140X125NP16	140	125	252	158	210	24	8	192	18	M16	4	C	80.19
PBR160X150NP16	160	150	285	178	240	24	8	218	22	M20	4	B	103.63
PBR180X150NP16	180	150	285	188	240	24	8	218	22	M20	4	C	103.63
PBR200X200NP16	200	200	340	235	295	27	12	273	22	M20	2	C	164.10
PBR225X200NP16	225	200	340	238	295	27	12	273	22	M20	2	C	164.10
PBR250X250NP16	250	250	419	288	355	32	12	329	26	M24	1	B	227.90
PBR280X250NP16	280	250	419	294	355	32	12	329	26	M24	1	C	227.90
PBR315X300NP16	315	300	478	338	410	34	12	384	26	M24	1	C	375.45
PBR355X350NP16	355	350	532	376	470	42	16	444	26	M24	1	C	652.93
PBR400X400NP16	400	400	592	430	525	46	16	495	30	M27	1	C	796.15
PBR450X500NP16	450	500	715	517	650	46	20	617	33	M30	1	C	2,353.49
PBR500X500NP16	500	500	715	533	650	46	20	617	33	M30	1	C	2,181.03
PBR560X600NP16	560	600	840	618	770	55	20	734	36	M33	1	C	3,804.10
PBR630X600NP16	630	600	840	645	770	55	20	734	36	M33	1	C	3,367.87
Polypropylene with Steel Core | ANSI B16.5 | C150 Drilling													
PBR020X015A	20	15	95	28	60.5	12	4	44.5	16	M12	56	C	19.72
PBR025X020A	25	20	102	34	69.9	12	4	53.9	16	M12	48	C	20.03
PBR032X025A	32	25	114	42	79.3	16	4	63.3	16	M12	25	C	24.90
PBR040X032A	40	32	130	51	88.9	16	4	72.9	16	M12	18	C	29.70
PBR050X040A	50	40	133	62	98.6	18	4	82.6	16	M12	15	C	35.34
PBR063X050A	63	50	165	78	120.6	18	4	100.6	20	M16	12	C	46.71
PBR075X065A	75	65	184	92	139.7	18	4	119.7	20	M16	8	C	52.74
PBR090X080A	90	80	194	111	152.4	20	4	132.4	20	M16	7	C	62.72
PBR110X100A	110	100	229	133	190.5	20	8	170.5	20	M16	7	C	81.74
PBR160X150A	160	150	283	178	241.3	24	8	219.3	22	M20	4	C	134.64
PBR180X150A	180	150	285	188	241.3	24	8	219.3	22	M20	4	C	134.64
PBR200X200A	200	200	345	236	298.5	27	8	276.5	22	M20	2	C	213.36
PBR250X250A	250	250	412	288	361.9	32	12	329.9	32	M22	1	C	296.26
PBR315X300A	315	300	487	338	431.8	32	12	406.8	25	M22	1	C	488.05
PBR355X350A	355	350	533	376	476.2	42	12	447.7	28.5	M27	1	C	848.73
PBR400X400A	400	400	596	430	539.7	44	16	511.2	28.5	M27	1	C	1,035.03

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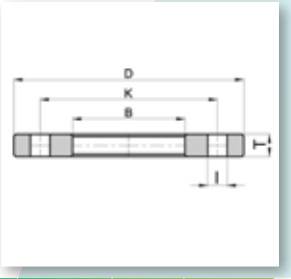
Flange | Galvanised Steel | Stainless Steel

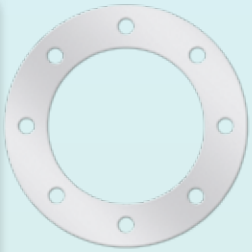
Specification

- EN1092 - PN16 Drilling
- EN1092 - PN10 Drilling
- d20-630 (Pipe Diameter)

Rilsen coated available upon request

Supplied 1 per box





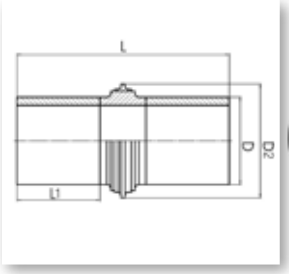
Galvanised Steel Code	Stainless Steel Code	Pipe Diameter	DN	D	B	K	T	Number of Holes	Inner Bolt Dimension	I	Bolt Diameter	Delivery Code	Gross Price Galvanised	Gross Price Stainless
		mm	mm	mm	mm	mm	mm		mm	mm			£ GBP	£ GBP
Galvanised Steel I Stainless Steel I PN10 I EN 1092-1														
GBR200X200NP10	SBR200X200NP10	200	200	340	235	295	10	8	273	22	M20	C	135.87	696.00
GBR225X200NP10	SBR225X200NP10	225	200	340	238	295	10	8	273	22	M20	C	135.87	696.00
GBR250X250NP10	SBR250X250NP10	250	250	395	288	350	15	12	328	22	M20	C	200.76	1,430.67
GBR280X250NP10	SBR280X250NP10	280	250	395	294	350	15	12	328	22	M20	C	200.76	1,430.67
GBR315X300NP10	SBR315X300NP10	315	300	445	338	400	20	12	378	22	M20	C	321.24	2,088.00
GBR355X350NP10	SBR355X350NP10	355	350	505	376	460	20	16	438	22	M20	C	429.82	2,552.00
GBR400X400NP10	SBR400X400NP10	400	400	565	430	515	25	16	489	26	M24	C	510.09	3,487.73
GBR450X450NP10	SBR450X450NP10	450	450	615	465	565	25	20	539	26	M24	C	749.51	4,060.00
GBR450X500NP10	SBR450X500NP10	450	500	670	517	620	25	20	594	26	M24	C	540.71	4,060.00
GBR500X500NP10	SBR500X500NP10	500	500	670	533	620	25	20	594	26	M24	C	722.06	4,701.87
GBR560X600NP10	SBR560X600NP10	560	600	780	618	725	25	20	695	30	M27	C	1,306.93	7,424.00
GBR630X600NP10	SBR630X600NP10	630	600	780	645	725	25	20	695	30	M27	C	1,306.93	7,424.00
Galvanised Steel I Stainless Steel I PN16 I EN 1092-1														
GBR020X015NP16	SBR020X015NP16	20	15	95	28	65	8	4	51	14	M12	C	16.86	76.56
GBR025X020NP16	SBR025X020NP16	25	20	105	34	75	8	4	61	14	M12	C	20.65	76.56
GBR032X025NP16	SBR032X025NP16	32	25	115	42	85	8	4	71	14	M12	C	21.34	84.29
GBR040X032NP16	SBR040X032NP16	40	32	140	51	100	8	4	82	18	M16	C	21.96	147.71
GBR050X040NP16	SBR050X040NP16	50	40	150	62	110	8	4	92	18	M16	C	23.05	190.24
GBR063X050NP16	SBR063X050NP16	63	50	165	78	125	8	4	107	18	M16	B	19.33	197.20
GBR075X065NP16	SBR075X065NP16	75	65	185	92	145	8	4	127	18	M16	C	34.88	208.80
GBR090X080NP16	SBR090X080NP16	90	80	200	108	160	8	8	142	18	M16	B	27.53	231.23
GBR110X100NP16	SBR110X100NP16	110	100	220	128	180	8	8	162	18	M16	B	29.62	368.88
GBR125X100NP16	SBR125X100NP16	125	100	220	133	180	8	8	162	18	M16	A	29.62	368.88
GBR140X125NP16	SBR140X125NP16	140	125	250	158	210	10	8	192	18	M16	C	77.26	442.35
GBR160X150NP16	SBR160X150NP16	160	150	285	178	240	10	8	218	22	M20	B	52.90	502.28
GBR180X150NP16	SBR180X150NP16	180	150	285	188	240	10	8	218	22	M20	A	52.90	502.28
GBR200X200NP16	SBR200X200NP16	200	200	340	235	295	10	12	273	22	M20	C	61.79	568.40
GBR225X200NP16	SBR225X200NP16	225	200	340	238	295	10	12	273	22	M20	B	61.79	568.40
GBR250X250NP16	SBR250X250NP16	250	250	405	288	355	15	12	329	26	M24	B	130.62	1,624.00
GBR280X250NP16	SBR280X250NP16	280	250	405	294	355	15	12	329	26	M24	C	130.62	1,624.00
GBR315X300NP16	SBR315X300NP16	315	300	460	338	410	20	12	384	26	M24	B	213.36	2,204.00
GBR355X350NP16	SBR355X350NP16	355	350	520	376	470	20	16	444	26	M24	C	365.40	2,668.00
GBR400X400NP16	SBR400X400NP16	400	400	580	430	525	25	16	495	30	M27	C	435.85	3,712.00
GBR450X450NP16	SBR450X450NP16	450	450	640	465	585	25	20	555	30	M27	C	590.29	4,408.00
GBR450X500NP16	SBR450X500NP16	450	500	715	517	650	25	20	617	33	M30	C	528.57	4,408.00
GBR500X500NP16	SBR500X500NP16	500	500	715	533	650	25	20	617	33	M30	C	737.68	5,490.67
GBR560X600NP16	SBR560X600NP16	560	600	840	618	770	25	20	734	36	M33	C	1,325.03	8,645.87
GBR630X600NP16	SBR630X600NP16	630	600	840	645	770	25	20	734	36	M33	C	1,325.03	8,645.87

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Long Spigot Puddle Flange | EDPM

Specification

- PE100
- SDR11
- SDR17
- Water tight 3 Bar up to d315
- Water tight 1 Bar d355 and above
- d90-630





Code	D	D2	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 | SDR11 | EDPM | Low Pressure Water								
PFHK90N	90	215	440	150	1.60	1	C	735.00
PFHK110N	110	230	440	150	2.10	1	C	803.23
PFHK125N	125	245	440	150	2.60	1	C	890.86
PFHK140N	140	265	440	150	3.10	1	C	985.92
PFHK160N	160	280	440	150	3.90	1	C	1,096.71
PFHK180N	180	305	440	150	4.80	1	C	1,194.75
PFHK200N	200	330	450	150	6.00	1	C	1,294.59
PFHK225N	225	355	450	150	7.40	1	C	1,541.28
PFHK250N	250	385	650	250	12.20	1	C	1,751.91
PFHK280N	280	420	650	250	15.10	1	C	2,145.94
PFHK315N	315	460	765	300	22.30	1	C	2,473.54
PFHK355N	355	480	775	300	28.30	1	C	3,128.18
PFHK400N	400	530	775	300	35.60	1	C	4,026.39
PFHK450N	450	580	775	300	44.40	1	C	4,652.96
PFHK500N	500	640	885	350	61.30	1	C	5,650.46
PFHK560N	560	710	915	350	76.70	1	C	6,621.68
PFHK630N	630	790	915	350	96.90	1	C	8,143.48
PE100 | SDR17 | EDPM | Low Pressure Water								
PFHK90V	90	215	440	150	1.30	1	C	697.84
PFHK110V	110	230	440	150	1.60	1	C	744.15
PFHK125V	125	245	440	150	2.00	1	C	814.81
PFHK140V	140	265	440	150	2.40	1	C	889.69
PFHK160V	160	280	440	150	2.90	1	C	979.82
PFHK180V	180	305	440	150	3.60	1	C	1,068.08
PFHK200V	200	330	450	150	4.50	1	C	1,146.63
PFHK225V	225	355	450	150	5.50	1	C	1,349.43
PFHK250V	250	385	650	250	8.90	1	C	1,508.35
PFHK280V	280	420	650	250	10.90	1	C	1,871.31
PFHK315V	315	460	765	300	16.10	1	C	2,049.08
PFHK355V	355	480	775	300	20.40	1	C	2,650.75
PFHK400V	400	530	775	300	25.60	1	C	3,196.96
PFHK450V	450	580	775	300	31.70	1	C	3,769.38
PFHK500V	500	640	885	350	43.70	1	C	4,551.25
PFHK560V	560	710	915	350	54.70	1	C	5,363.00
PFHK630V	630	790	915	350	68.90	1	C	6,485.93

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Full Face Gasket | EDPM | NBR Duo

Specification

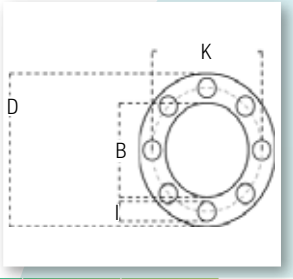
- EDPM - Water
- NBR - Gas
- EN1092 - PN16 - Drilling
- EN1092 - PN10 - Drilling
- d20-630

State specification details when ordering
*B (mm) - may vary depending upon specification

Only for PE to PE connections - suitable for SDR 11 and SDR 17 Stub Flange Adaptors

Profiled, aramid, PTFE, metallic / semi-metallic upon request

Supplied 1 per box

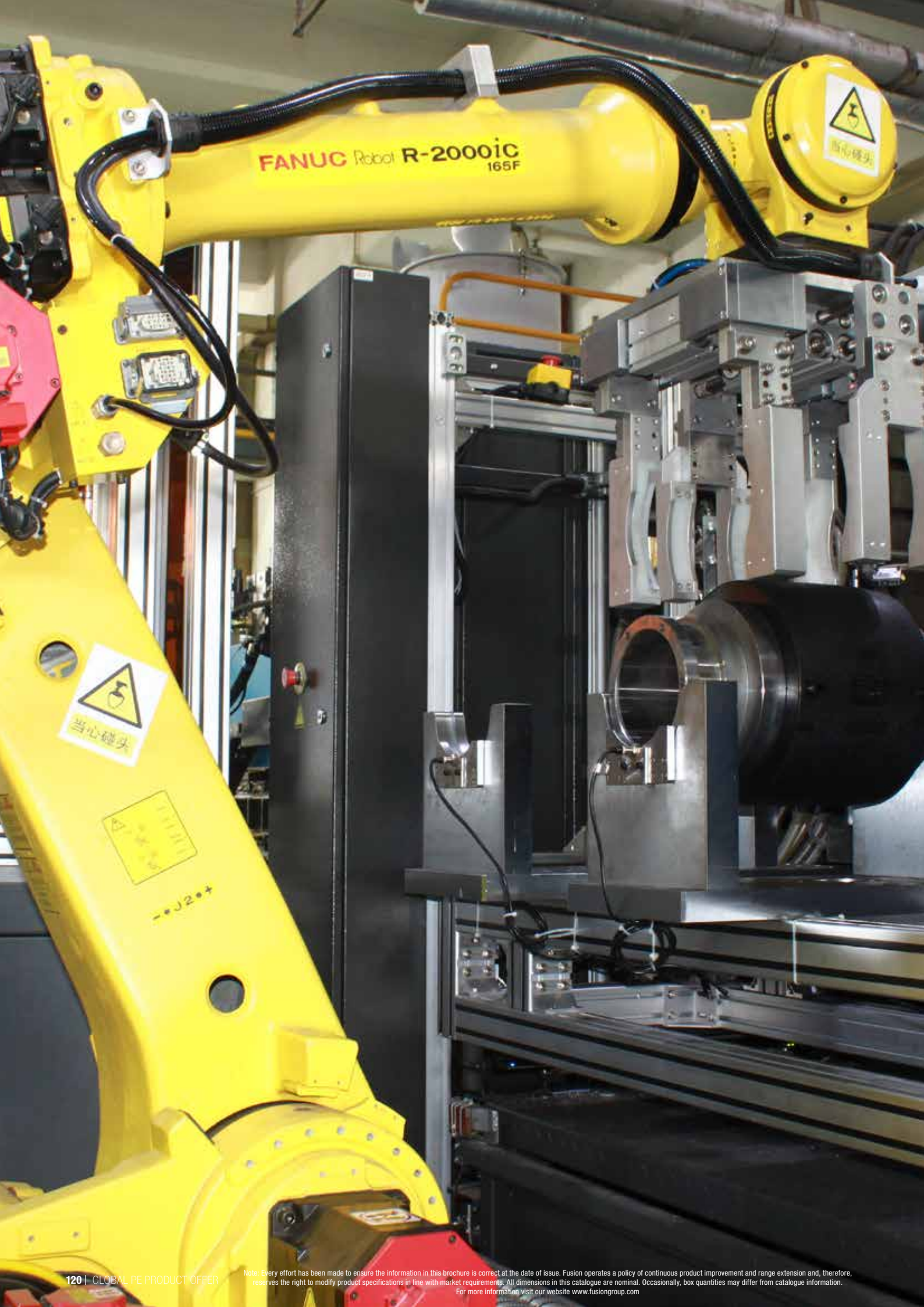




EDPM - WATER Code	NBR - GAS Code	Pipe Diameter	DN	D	B*	K	I	Number of Holes	Delivery Code	Gross Price WATER	Gross Price GAS
		mm	mm	mm	mm	mm	mm			£ GBP	£ GBP
EDPM | NBR | PN10 | EN 1092											
GFF200X200PN10W	GFF200X200PN10G	200	200	340	178	295	22	8	C	14.17	18.39
GFF225X200PN10W	GFF225X200PN10G	225	200	340	200	295	22	8	C	15.00	19.64
GFF250X250PN10W	GFF250X250PN10G	250	250	395	216	350	22	12	C	15.99	20.88
GFF280X250PN10W	GFF280X250PN10G	280	250	395	250	350	22	12	C	15.99	20.88
GFF315X300PN10W	GFF315X300PN10G	315	300	445	268	400	22	12	C	23.70	30.91
GFF355X350PN10W	GFF355X350PN10G	355	350	505	304	460	22	16	C	30.33	39.52
GFF400X400PN10W	GFF400X400PN10G	400	400	565	352	515	26	16	C	34.14	44.58
GFF450X450PN10W	GFF450X450PN10G	450	450	615	398	565	26	20	C	84.93	112.27
GFF450X500PN10W	GFF450X500PN10G	450	500	670	398	620	26	20	C	84.93	112.27
GFF500X500PN10W	GFF500X500PN10G	500	500	670	440	620	26	20	C	57.25	75.90
GFF560X600PN10W	GFF560X600PN10G	560	600	780	492	725	30	20	C	118.07	158.51
GFF630X600PN10W	GFF630X600PN10G	630	600	780	540	725	30	20	C	118.07	158.51
EDPM | NBR | PN16 | EN 1092											
GFF20X15PN16W	GFF20X15PN16G	20	15	95	22	65	14	4	C	1.99	2.98
GFF25X20PN16W	GFF25X20PN16G	25	20	105	27	75	14	4	C	1.99	2.98
GFF32X25PN16W	GFF32X25PN16G	32	25	115	34	85	14	4	C	2.24	3.31
GFF40X32PN16W	GFF40X32PN16G	40	32	140	43	100	18	4	C	2.65	3.65
GFF50X40PN16W	GFF50X40PN16G	50	40	150	49	110	18	4	C	3.65	3.98
GFF63X50PN16W	GFF63X50PN16G	63	50	165	53	125	18	4	C	3.65	3.98
GFF75X65PN16W	GFF75X65PN16G	75	65	185	65	145	18	4	C	4.14	5.97
GFF90X80PN16W	GFF90X80PN16G	90	80	200	82	160	18	8	C	5.14	7.46
GFF110X100PN16W	GFF110X100PN16G	110	100	220	100	180	18	8	C	5.14	7.46
GFF125X100PN16W	GFF125X100PN16G	125	100	220	115	180	18	8	C	5.14	7.46
GFF140X125PN16W	GFF140X125PN16G	140	125	250	125	210	18	8	C	7.62	11.02
GFF160X150PN16W	GFF160X150PN16G	160	150	285	150	240	22	8	C	9.94	14.58
GFF180X150PN16W	GFF180X150PN16G	180	150	285	150	240	22	8	B	9.94	14.58
GFF200X200PN16W	GFF200X200PN16G	200	200	340	178	295	22	12	C	13.42	19.39
GFF225X200PN16W	GFF225X200PN16G	225	200	340	200	295	22	12	C	13.42	19.39
GFF250X250PN16W	GFF250X250PN16G	250	250	405	216	355	26	12	B	18.64	26.93
GFF280X250PN16W	GFF280X250PN16G	280	250	405	250	355	26	12	C	18.64	26.93
GFF315X300PN16W	GFF315X300PN16G	315	300	460	268	410	26	12	C	24.36	35.13
-	GASKFF300G**	315	300	460	300	410	26	12	C	-	35.13
GFF355X350PN16W	GFF355X350PN16G	355	350	520	304	470	26	16	C	26.93	38.78
-	GASKFF350G**	355	350	520	350	470	26	16	C	-	38.78
GFF400X400PN16W	GFF400X400PN16G	400	400	580	352	525	30	16	C	35.46	51.79
-	GASKFF400G**	400	400	580	400	525	30	16	C	-	51.79
GFF450X450PN16W	GFF450X450PN16G	450	450	640	398	585	30	20	C	95.95	138.21
GFF450X500PN16W	GFF450X500PN16G	450	500	710	398	650	33	20	C	95.95	138.21
GFF500X500PN16W	GFF500X500PN16G	500	500	715	440	650	33	20	C	105.06	151.30
GFF560X600PN16W	GFF560X600PN16G	560	600	835	492	770	36	20	C	118.40	152.95
GFF630X600PN16W	GFF630X600PN16G	630	600	835	540	770	36	20	C	118.40	152.95

**Full Bore Design

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PE BALL VALVES



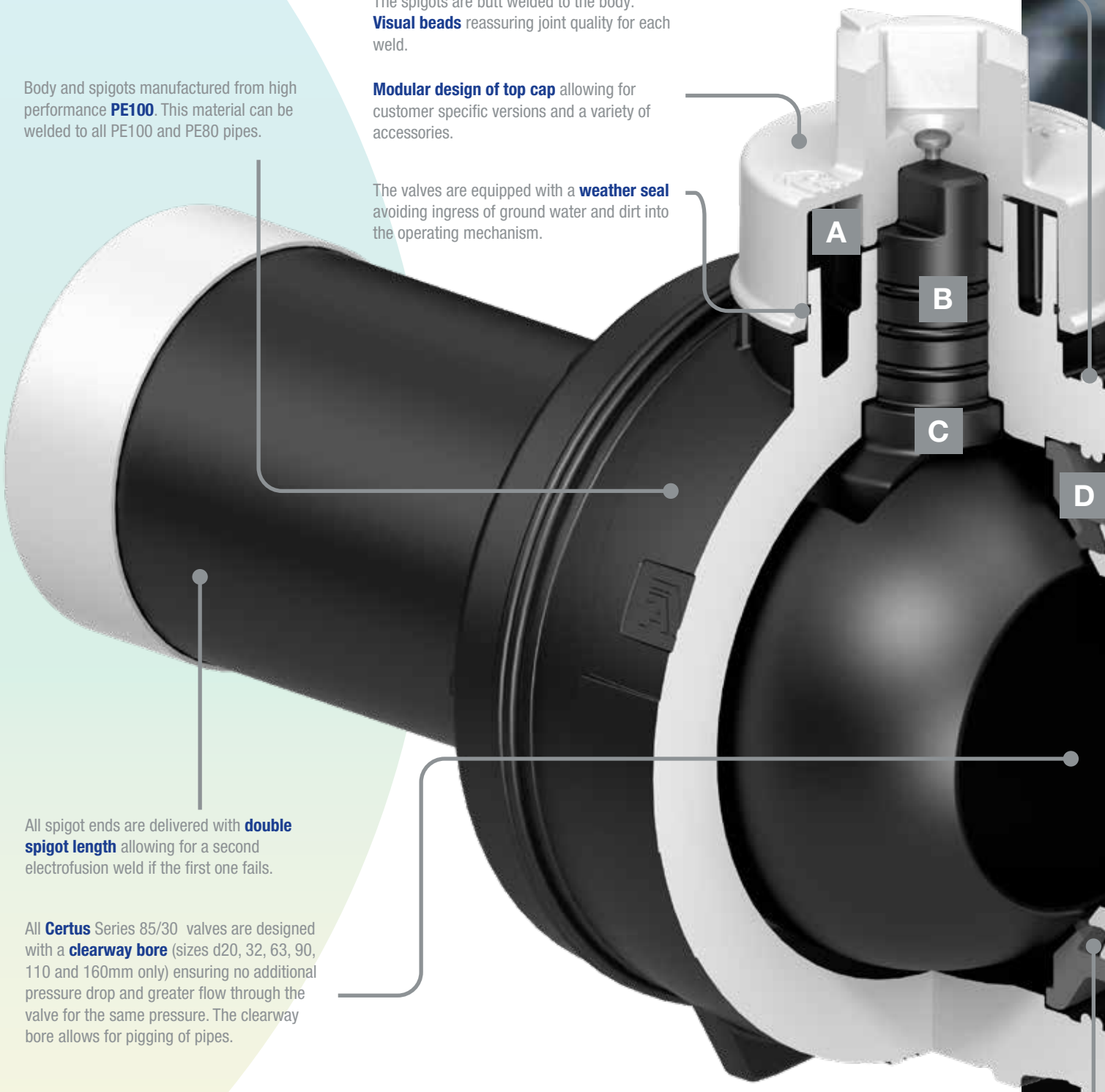
CERTUS™ PE BALL VALVES
FOR GAS AND WATER

The spigots are butt welded to the body. **Visual beads** reassuring joint quality for each weld.

Modular design of top cap allowing for customer specific versions and a variety of accessories.

The valves are equipped with a **weather seal** avoiding ingress of ground water and dirt into the operating mechanism.

Body and spigots manufactured from high performance **PE100**. This material can be welded to all PE100 and PE80 pipes.



All spigot ends are delivered with **double spigot length** allowing for a second electrofusion weld if the first one fails.

All **Certus** Series 85/30 valves are designed with a **clearway bore** (sizes d20, 32, 63, 90, 110 and 160mm only) ensuring no additional pressure drop and greater flow through the valve for the same pressure. The clearway bore allows for pigging of pipes.

The **spigot ends are machined** on the inside as well as on the outside, guaranteeing a uniform wall thickness, allowing for optimal welding of electrofusion couplers and the smooth inner surface prevents deposits and will minimise flow resistance.

The floating ball principle and **special shaped ball seats** are designed to ensure sealing at all times and be less affected by dirt or debris.

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The **Certus Series 85/30** is an extensive range of PE ball valves up to d180 used for isolation of water and gas service to both domestic and commercial premises.

The Certus PE100 ball valves are manufactured at AVK Syntec, a modern purpose built and well equipped manufacturing facility complying with the international standard ISO/TS 29001:2010 quality management system, uses state of the art machinery and methods to produce high quality products.

Every valve is individually tested and given a unique serial number which can be traced as far back as the raw polyethylene material.

All of the manufacturing processes are managed to the exacting standards of the ISO 9001 certification and ISO/TS 29001:2010.

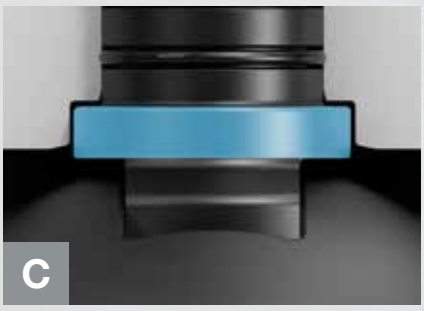
These robust PE ball valves have been extensively and independently type tested against worldwide leading standards such as GIS/V7: Part 2, EN 1555-4. Full documented records of type testing are maintained by AVK and are available on request.



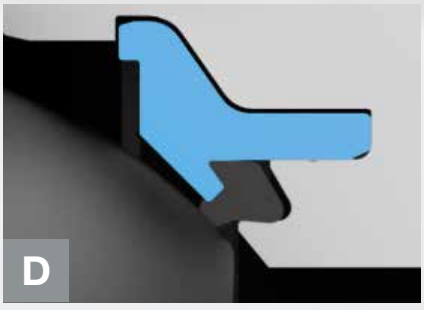
If the valve is over torqued, the top cap is designed to fail before the valve seals, thus preventing a leak to atmosphere.
The **safety top cap** can be replaced easily under live conditions.



Triple O-ring construction around the stem guaranteeing sealing safety at all times, even during ground movement.



The intentionally over-designed stem is extremely strong and of the **anti blow-out** type.



The **seat retainer** design ensures the ball seat is kept in place at all times. This optimal design prevents the ball seat from being dislodged, which guarantees a good functionality throughout the years.

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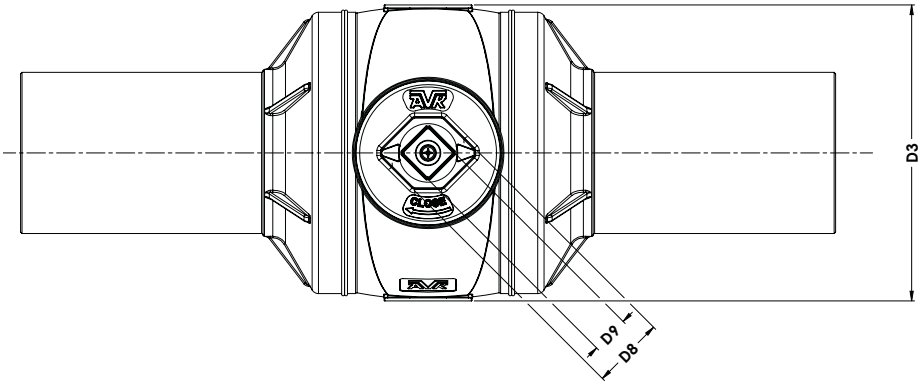
CERTUS PE Ball Valve

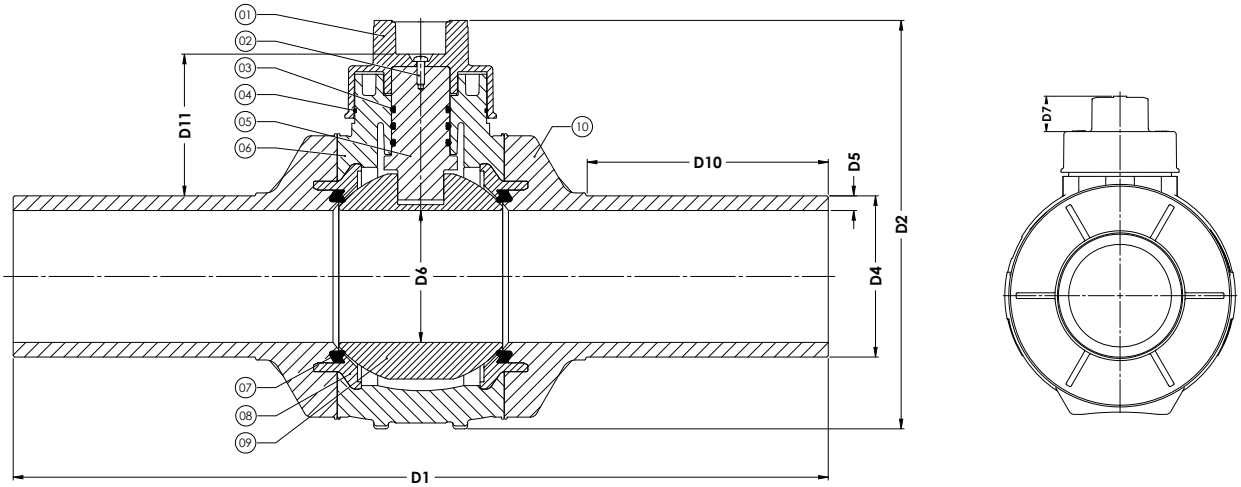
Specification

- PE100, SDR11 (SDR17 / 17.6 available upon request)
- GIS/V7: Part 2 / EN 1555-4 / ISO4437-4 / EN12201-4
- MOP dependant on SDR Rating
- Clearway bore - Sizes d20, 32, 63, 90,110 and 160
- Full bore - Sizes d40, 125 and 180
- d20 -180



Code	d	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
850203023203006	20	305	155	95	20	3.0	26	46	49.6	20x20	82	76	0.8	C	90.19
850323023203006	32	320	155	95	32	3.0	26	46	49.6	20x20	88	70	0.8	A	95.48
850403013203006	40	340	155	95	40	3.7	26	46	49.6	20x20	98	66	0.9	B	133.84
850633023203006	63	435	205	135	63	5.8	51	46	49.6	20x20	130	84	1.8	A	153.70
850903023203006	90	520	285	180	90	8.2	74	46	49.6	20x20	158	123	3.8	B	305.88
851103021203006	110	560	280	205	110	10.0	90	31	49.6	20x20	164	96	5.5	B	397.66
851253011203006	125	585	280	205	125	11.4	90	31	49.6	20x20	182	89	5.9	B	412.96
851603021203006	160	700	370	280	160	14.6	131	35	49.6	20x20	196	120	13.8	B	1,108.82
851803011203006	180	735	370	280	180	16.4	131	35	49.6	20x20	220	110	14.4	B	1,124.11





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CERTUS Installation Kit

Specification

- Installation Kit to suit d20, 32, 40, 63 and 90 Certus Valves
- Available with or without lid



Code	Description	Weight	Delivery Code	Gross Price
		Kg		£ GBP
85999090	Installation kit including surface box	2.6	C	160.37
85999091	Installation kit without surface box	2.3	C	140.72

CERTUS Square Drive Tee Key

Specification

- 50mm Square Drive Tee Key to suit Certus PE Ball Valves
- Length range 750-1500mm



Code	Range	Weight	Delivery Code	Gross Price
	mm	Kg		£ GBP
9642500002	750mm long	1.5	C	181.61
9642500003	1,000mm long	2.2	C	171.03
9642500004	1,500mm long	3	C	301.31

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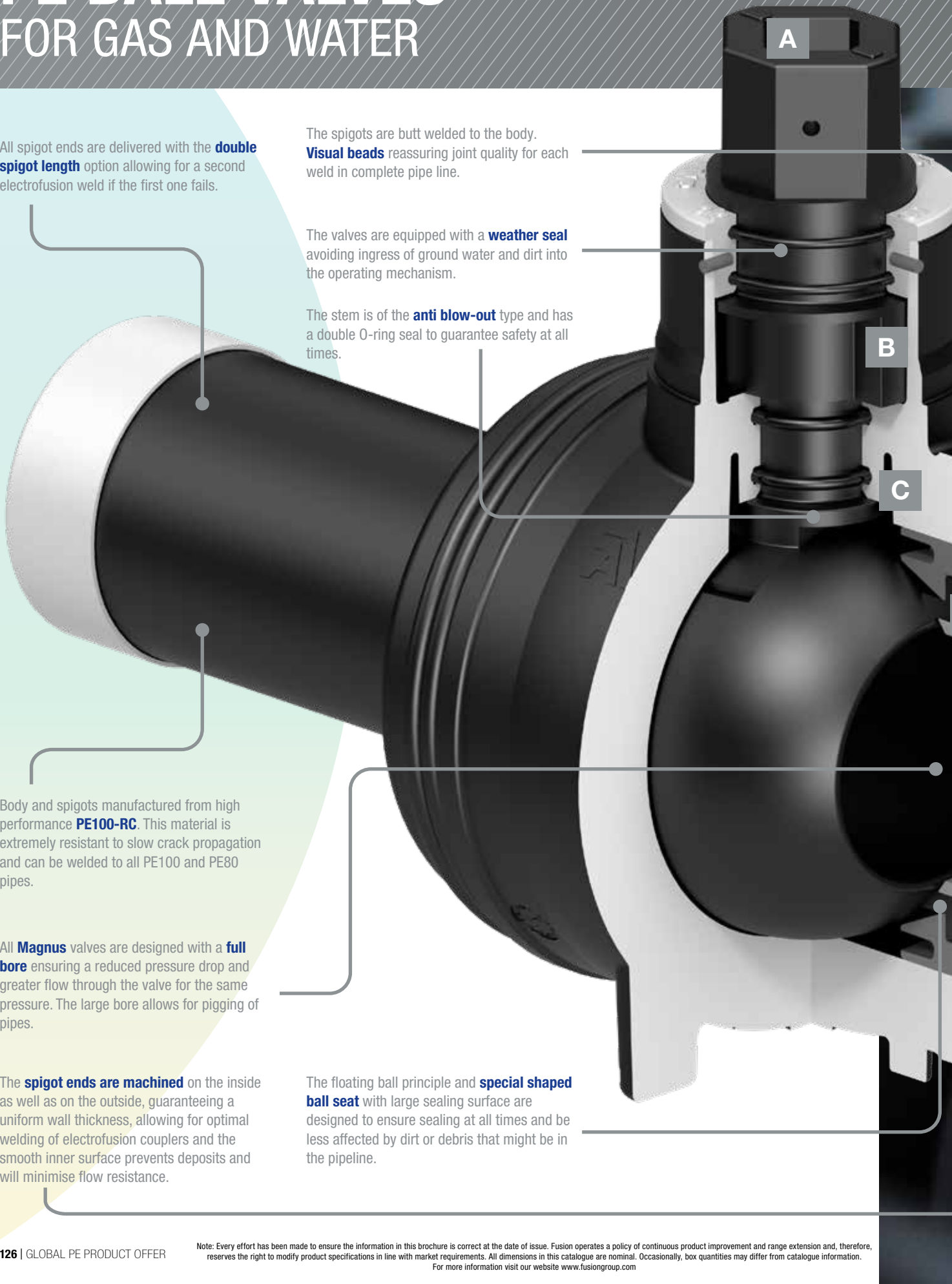
MAGNUS™ PE BALL VALVES
FOR GAS AND WATER

All spigot ends are delivered with the **double spigot length** option allowing for a second electrofusion weld if the first one fails.

The spigots are butt welded to the body. **Visual beads** reassuring joint quality for each weld in complete pipe line.

The valves are equipped with a **weather seal** avoiding ingress of ground water and dirt into the operating mechanism.

The stem is of the **anti blow-out** type and has a double O-ring seal to guarantee safety at all times.



Body and spigots manufactured from high performance **PE100-RC**. This material is extremely resistant to slow crack propagation and can be welded to all PE100 and PE80 pipes.

All **Magnus** valves are designed with a **full bore** ensuring a reduced pressure drop and greater flow through the valve for the same pressure. The large bore allows for pigging of pipes.

The **spigot ends are machined** on the inside as well as on the outside, guaranteeing a uniform wall thickness, allowing for optimal welding of electrofusion couplers and the smooth inner surface prevents deposits and will minimise flow resistance.

The floating ball principle and **special shaped ball seat** with large sealing surface are designed to ensure sealing at all times and be less affected by dirt or debris that might be in the pipeline.

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The **Magnus Series 85/50** is an extensive range of PE ball valves up to d180 used for isolation of water and gas service to both domestic and commercial premises.

The range have been extensively and independently type tested against worldwide leading standards such as EN1555-4, ISO4437-4 and EN12201-4 for water applications.

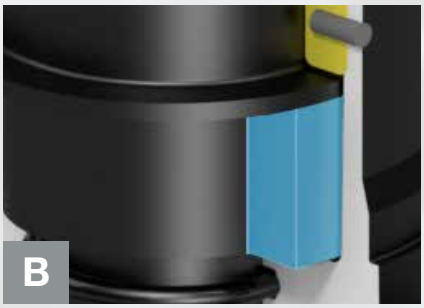
Magnus ball valves have undergone additional testing over and above that required in the specification. This ensures that the valve is suitable for distribution systems and environments anywhere in the world.

The extensive Magnus ball valve range consists of multiple sizes starting at d25 up to d180. Depending on the requested pressure rating the valves are available with SDR11 or SDR 17 spigot ends. The selected materials are tested and approved for GAS and WATER applications.

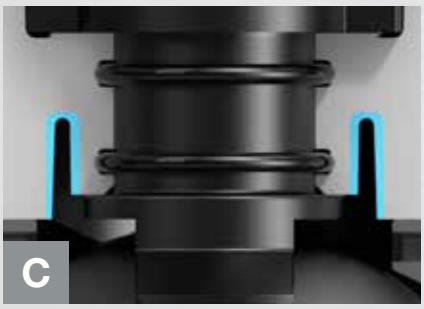
The valves are rated as MOP10 for GAS applications and PN16 for WATER.

A

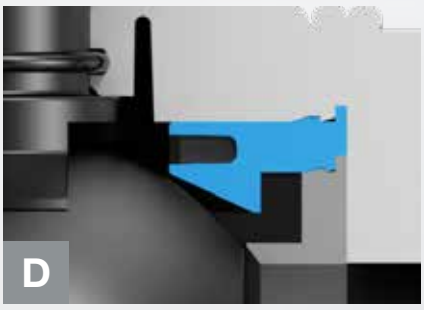
Due to the **internal and external drive** the valves can be operated by all standardised spindles.


B

If the valve is over torqued during opening or closing, the connector is designed to fail before the valve seals, thus preventing a leak to atmosphere. The **safety connector** can be replaced under live conditions.


C

The **flexible spindle shaft** ensures equal compression around the O-rings when loaded by internal pressure. At the same time the groove will adapt to any deformation as a result of upstream pressure on the ball when the valve is in the closed position.


D

The **seat retainer and support ring** design ensure the ball seat is kept in place at all times. This optimal design prevents the ball seat from being dislodged, which guarantees a good functionality throughout the years.


D

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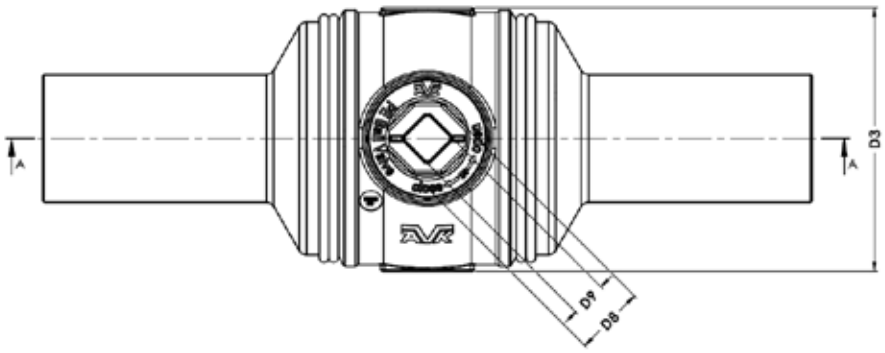
MAGNUS PE Ball Valve

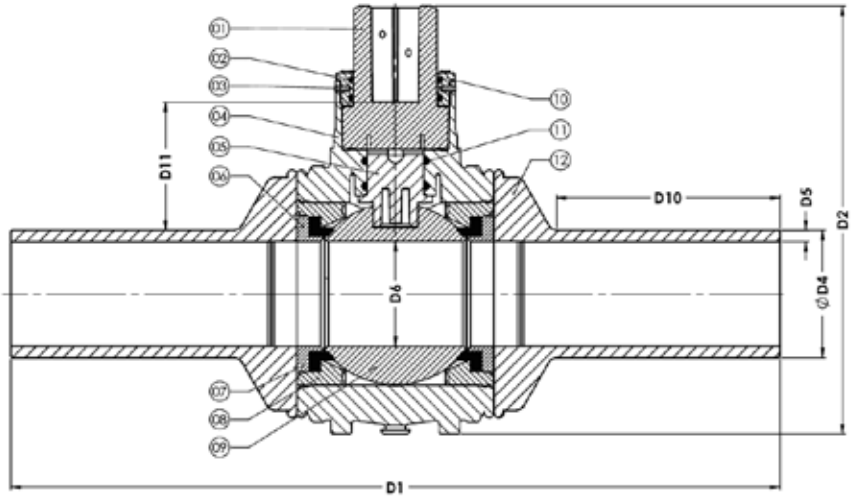
Specification

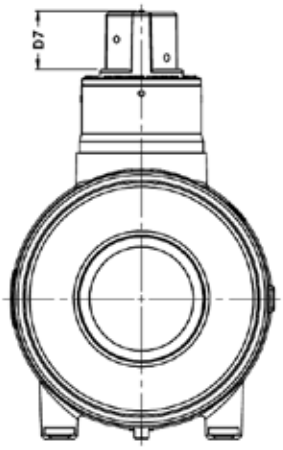
- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d25-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
850255022204017	25	25	310	190	90	3.0	35	49.6	20.5	84	65	0.9	C	108.17
850325012204017	32	25	320	190	90	3.0	35	49.6	20.5	90	62	0.9	B	114.62
850405012204017	40	32	340	205	100	3.7	35	49.6	20.5	98	65	1.1	C	160.59
850505012204017	50	40	365	220	115	4.6	35	49.6	20.5	111	65	1.4	C	172.04
850635012204007	63	50	440	255	140	5.8	40	49.6	25.5	128	80	2.5	C	184.44
850905022204007	90	74	545	300	185	8.2	40	49.6	25.5	158	90	5.0	C	367.07
851105012204007	110	86	585	320	205	10.0	40	49.6	25.5	165	90	6.7	C	477.20
851255012204007	125	86	595	320	205	11.4	40	49.6	25.5	176	80	7.2	C	495.54
851605012204007	160	120	710	405	285	14.6	40	49.6	25.5	196	105	16.3	C	1,330.59
851805012204007	180	120	725	405	285	16.4	40	49.6	25.5	210	95	17.3	C	1,348.94







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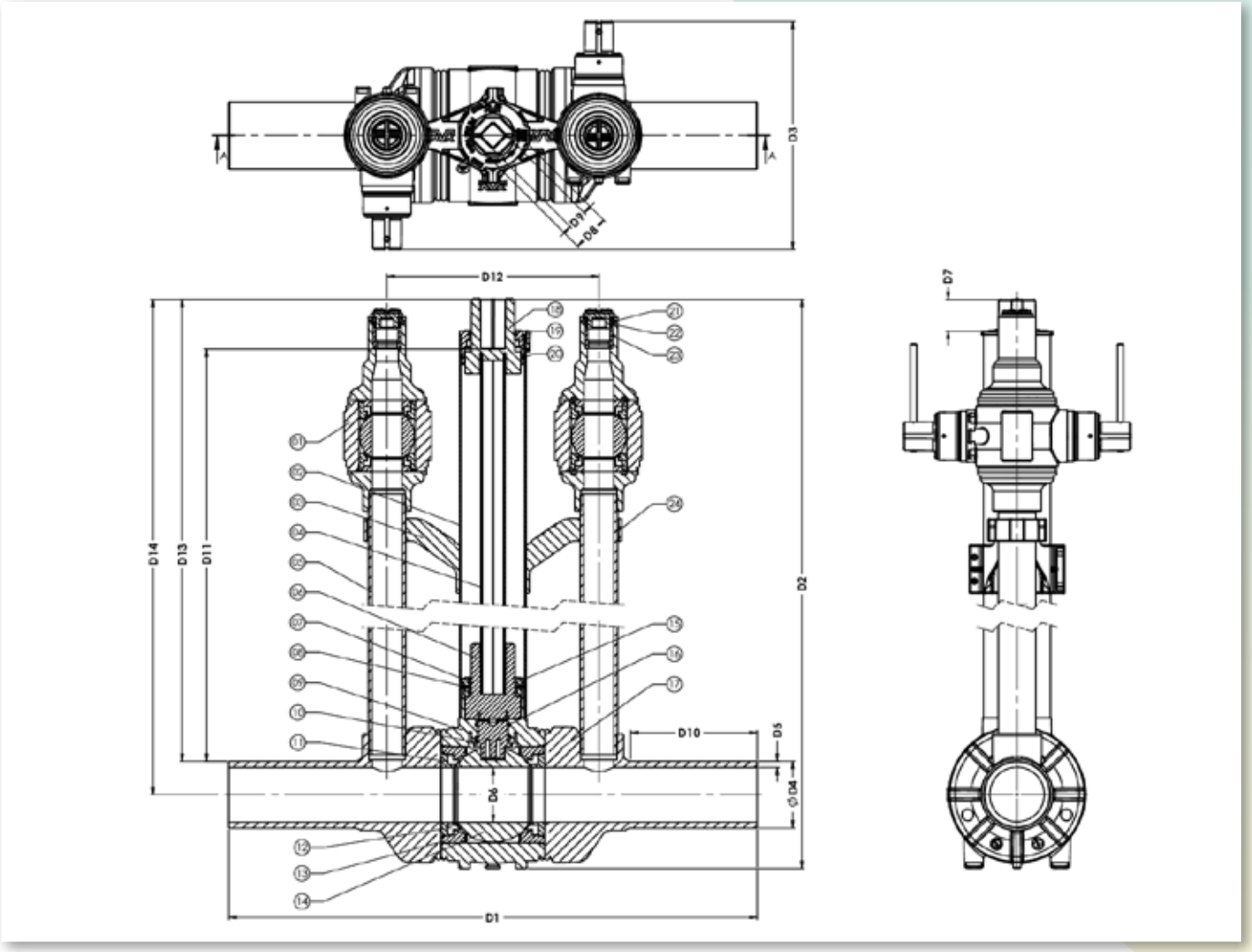
MAGNUS PE Ball Valve with Stem Extension and 2 Purge Points

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	D14	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
85063501200400722	63	50	715	810	305	5.8	40	49.6	25.5	170	635	285	700	730	8.7	B	848.61
85090502200400722	90	74	710	855	305	8.2	40	49.6	25.5	170	645	285	710	755	12.0	B	1,077.28
85110501200400722	110	86	715	875	305	10.0	40	49.6	25.5	170	645	285	710	765	13.8	C	1,179.29
85125501200400722	125	86	715	875	305	11.4	40	49.6	25.5	170	635	285	700	765	14.6	B	1,180.95
85160501200400722	160	120	795	1045	305	14.6	40	49.6	25.5	170	750	355	815	895	26.3	C	2,226.04
85180501200400722	180	120	795	1045	305	16.4	40	49.6	25.5	170	740	355	805	895	27.1	B	2,226.04



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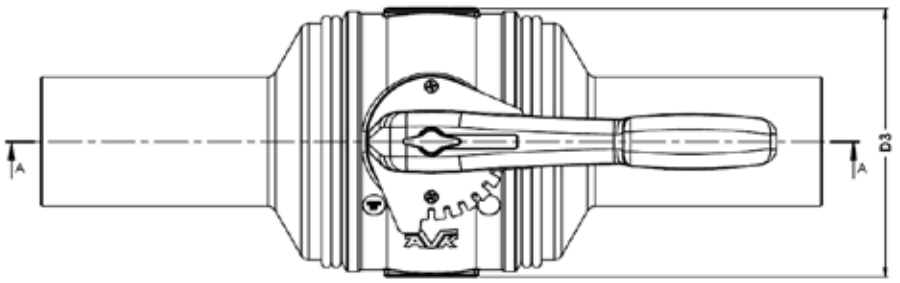
MAGNUS PE Ball Valve with Lever

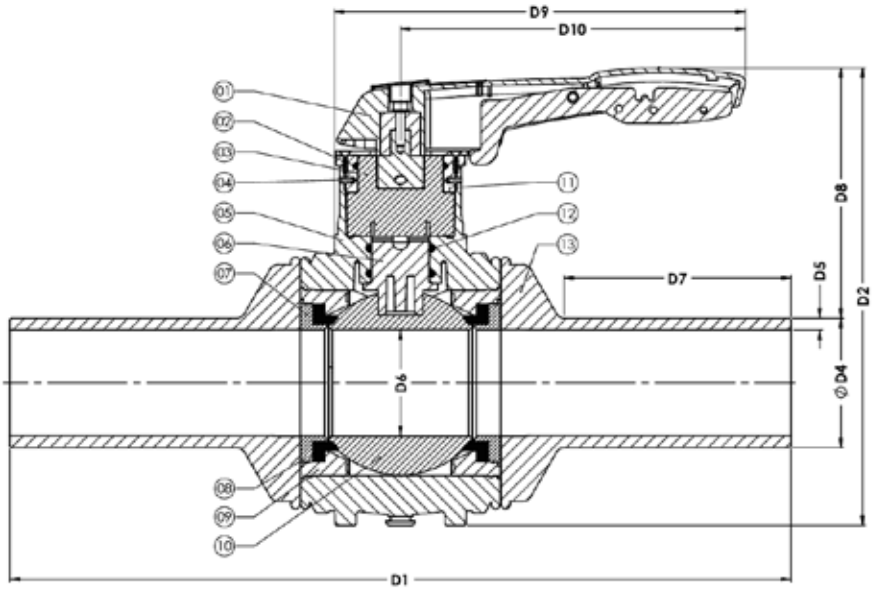
Specification

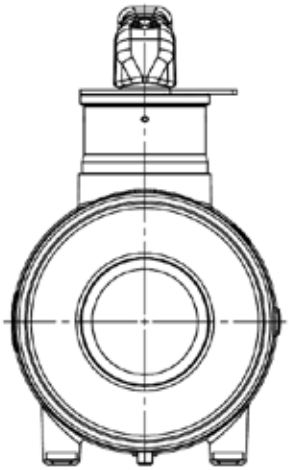
- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d25-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
85025502220408730	25	25	310	205	90	3.0	84	140	230	195	1.3	C	232.58
85032501220408730	32	25	320	205	90	3.0	90	140	230	195	1.3	C	220.91
85040501220408730	40	32	340	220	100	3.7	98	140	230	195	1.4	C	282.10
85050501220408730	50	40	365	235	115	4.6	111	145	230	195	1.7	C	265.64
85063501220409731	63	50	440	270	140	5.8	128	165	286	240	3.1	C	366.92
85090502220409731	90	74	545	320	185	8.2	158	175	286	240	5.4	C	528.02
85110501220409731	110	86	585	335	205	10.0	165	170	286	240	7.4	C	647.93
85125501220409731	125	86	595	335	205	11.4	176	165	286	240	7.8	C	659.53
85160501220410732	160	120	710	420	285	14.6	196	210	450	390	17.4	C	1,585.65
85180501220410732	180	120	725	420	285	16.4	210	205	450	390	18.5	C	1,707.45







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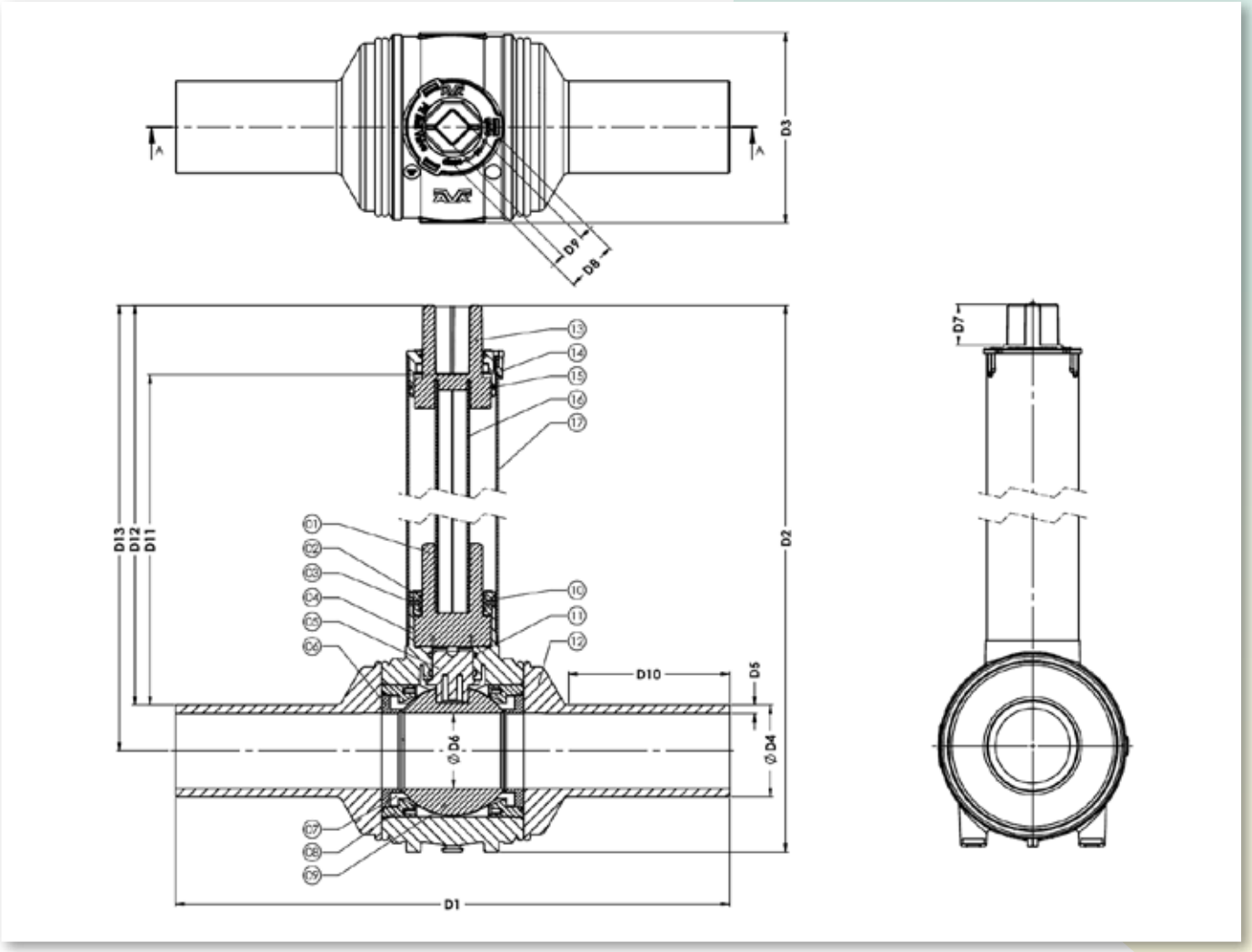
MAGNUS PE Ball Valve with Stem Extension

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
85063501220400720	63	50	440	810	140	5.8	40	49.6	25.5	128	635	700	730	3.9	B	311.90
85090502220400720	90	74	545	855	185	8.2	40	49.6	25.5	158	645	710	755	6.4	B	473.28
85110501220400720	110	86	585	875	205	10.0	40	49.6	25.5	165	645	710	765	8.2	C	592.83
85125501220400720	125	86	595	875	205	11.4	40	49.6	25.5	176	635	705	765	8.6	C	602.11
85160501220400720	160	120	710	1045	285	14.6	40	49.6	25.5	196	750	815	895	18.4	C	1,503.29
85180501220400720	180	120	725	1045	285	16.4	40	49.6	25.5	210	740	805	895	19.4	C	1,521.78



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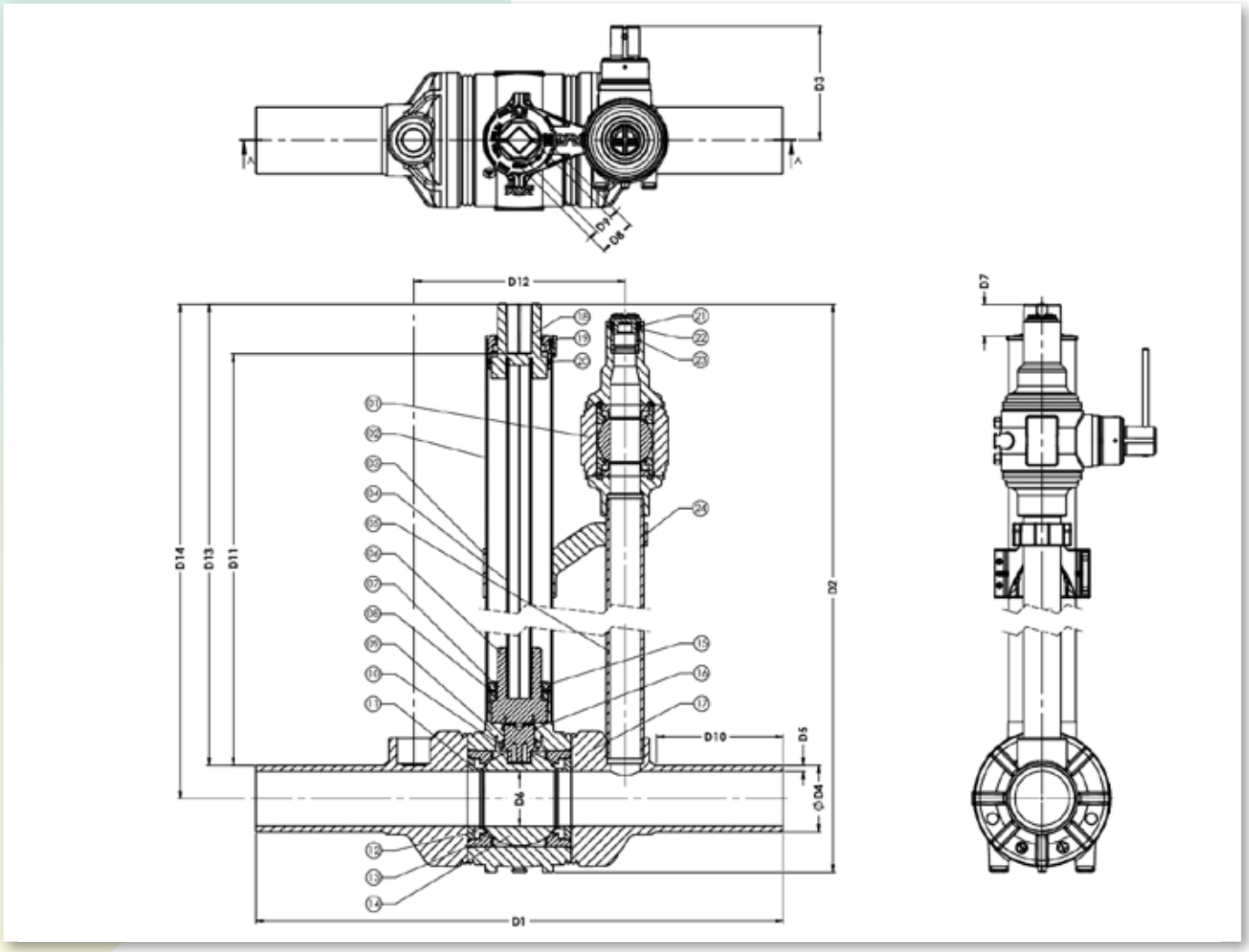
MAGNUS PE Ball Valve with Stem Extension and 1 Purge Point

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180

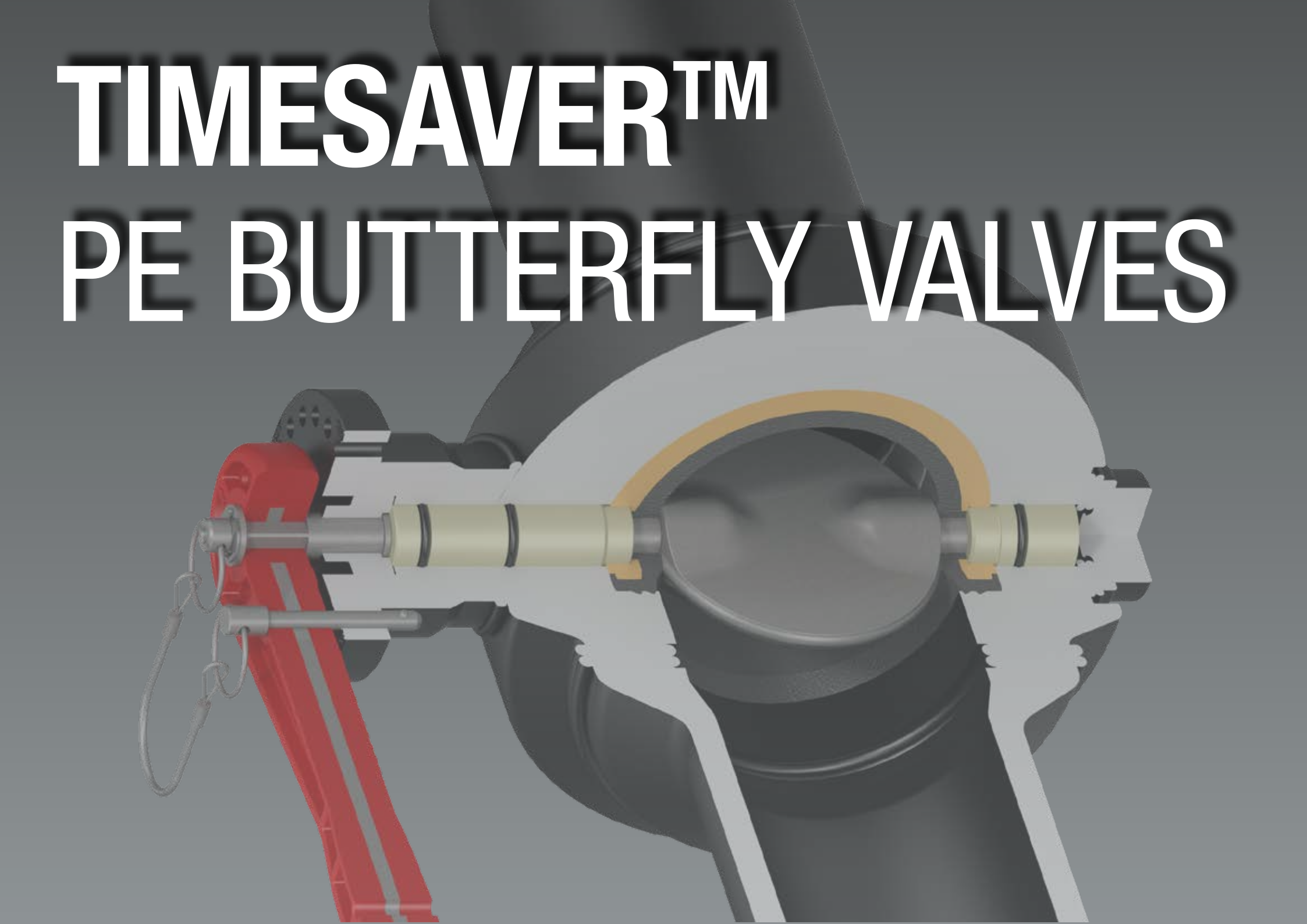


Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	D14	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
85063501200400721	63	50	715	810	152.5	5.8	40	49.6	25.5	170	635	285	700	730	6.8	C	616.18
85090502200400721	90	74	710	855	152.5	8.2	40	49.6	25.5	170	645	285	710	755	9.9	C	844.99
85110501200400721	110	86	715	875	152.5	10.0	40	49.6	25.5	170	645	285	710	765	11.9	C	945.62
85125501200400721	125	86	715	875	152.5	11.4	40	49.6	25.5	170	635	285	700	765	12.6	C	947.87
85160501200400721	160	120	795	1045	152.5	14.6	40	49.6	25.5	170	750	355	815	895	24.2	C	1,983.96
85180501200400721	180	120	795	1045	152.5	16.4	40	49.6	25.5	170	740	355	805	895	25.0	C	1,989.91



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TIMESAVER™
PE BUTTERFLY VALVES



TIMESAVER™ PE BUTTERFLY VALVES
FOR GAS AND WATER



FUSIBLE BUTTERFLY VALVE

Series 89 fusible butterfly valves are designed for butt-fusion or electrofusion into HDPE piping systems. The Series 89 leak-free system enables ease of installation and eliminates the need for flange adaptors, spacers, backing rings, nuts, bolts or gaskets.



WAFER BUTTERFLY VALVE

The Series 891 wafer butterfly valve utilises existing flanges, eliminating the need for valve spacers. The wafer valve is preferred in applications where easy access into piping systems is needed.



FUSIBLE DUAL CONTAINMENT BUTTERFLY VALVE

Series 890, dual-containment butterfly valves include a second pipe housing. This unit can be fused into new or existing dual-containment (double wall) HDPE pipelines, eliminating the need for valve boxes or vaults.

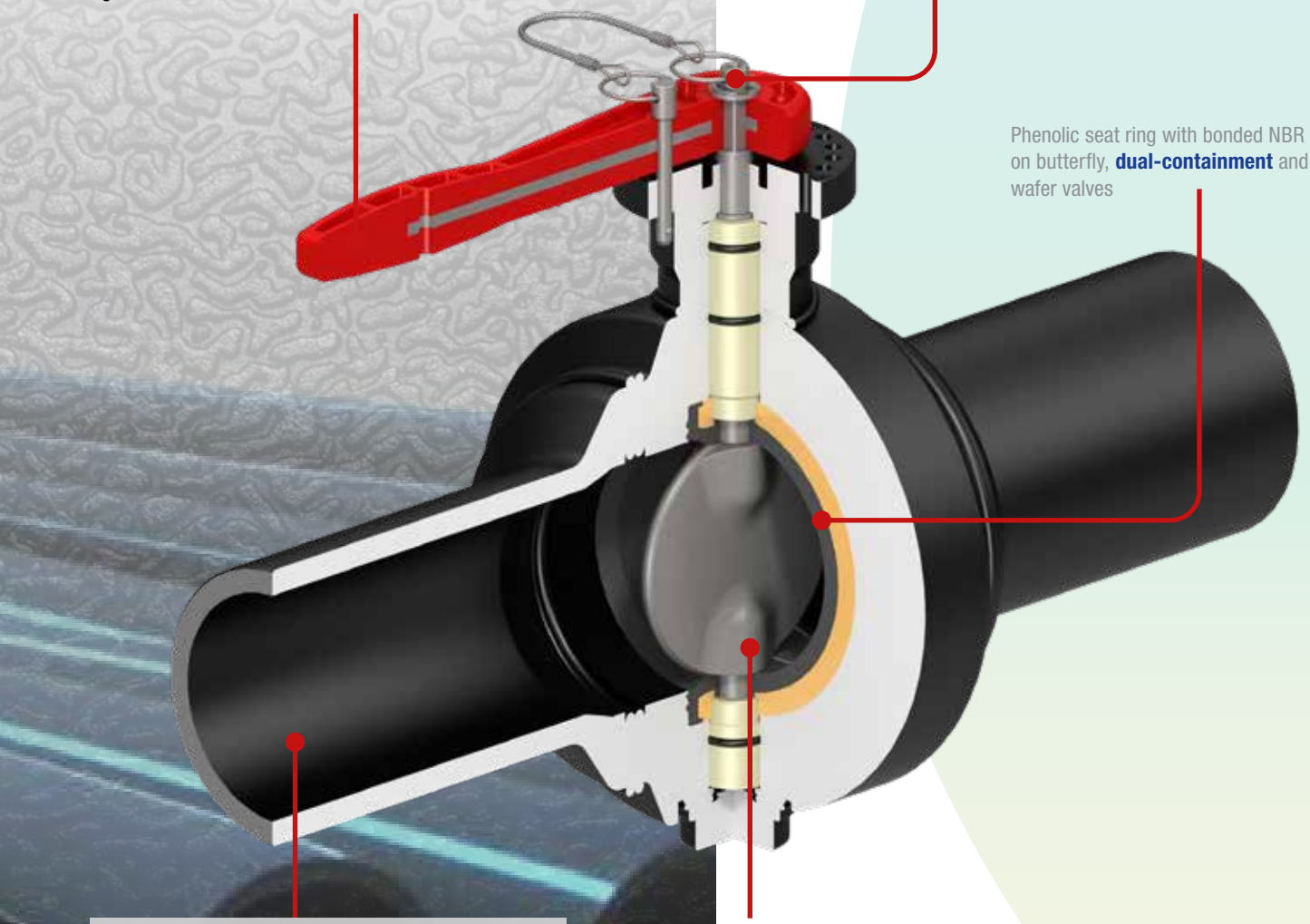
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The Series 89 Timesaver butterfly valves are designed for quick, direct heat butt fusion or electrofusion into HDPE piping systems up to d315 (DN300).

The Series 89 leak-free system enables ease of installation and eliminates the need for flange adaptors, spacers, backing rings, nuts, bolts or gaskets.

360ºC incremental positioning lever standard for d63-180 (DN50 - 150); gearboxes standard on d200 and above

Stem extensions available from d300 to 2700mm, in 150mm increments



Phenolic seat ring with bonded NBR on butterfly, **dual-containment** and wafer valves

The Timesaver Series 89 valves (excluding the wafer valve) are **designed for butt-fusion or electrofusion into HDPE piping systems**. The Series 89 leak-free system enables ease of installation and eliminates the need for flange adaptors, spacers, backing rings, nuts, bolts or gaskets.

ASTM A582 316 stainless steel stems and discs on butterfly, dual-containment and wafer valves

IPS valve sizes range from **d63 - 315 (DN50 through 300)** with larger sizes and DIPS available upon request

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TIMESAVER PE Butterfly Valve

Specification

- **Series 89/BFV**
- HDPE Fusible End
- SDR 11 (Standard)
- PE100
- Stainless Steel Disc
- NBR Seat
- d63 - 315 (DN50-300)
- DN350 - 600 available upon request
- DIPS available upon request
- Levers standard on sizes DN50-150
- Gearboxes standard on sizes DN200-300
- Gearboxes available on DN50-150 sizes upon request
- Stem extensions available upon request (150mm increments)



Code	d	DN	PN	Nominal Weight	Delivery Code	Gross Price
	mm	mm	Bar	Kg		£ GBP
89063400035020	63	50	10	2	C	1,172.98
89090400035020	90	80	10	5	C	1,378.01
89110400035020	110	100	10	7	C	1,702.16
89160400035030	160	150	10	11	C	2,829.46
89200400039040	200	200	10	36	C	8,311.84
89250400039040	250	250	10	48	C	11,469.72
89315400039050	315	300	10	66	C	13,763.11

TIMESAVER Dual Containment PE Butterfly Valve

Specification

- **Series 890/DCV**
- HDPE Fusible End
- SDR 11 (Standard)
- PE100
- Stainless Steel Disc
- NBR Seat
- d63 - 110/125 - 160-180/250-280 (DN50x100 through 150x250)
- Larger sizes available upon request
- DIPS available upon request
- Levers standard on sizes DN50-150
- Gearboxes standard on sizes DN200-300
- Gearboxes available on DN50-150 sizes upon request
- Stem extensions available upon request (150mm increments)



Code	d	DN	PN	Nominal Weight	Delivery Code	Gross Price
	mm	mm	Bar	Kg		£ GBP
890-050-50003	63-110/125	50x100	10	3	C	POA
890-080-50003	90-160/180	80x150	10	7	C	POA
890-100-50003	110-125/200/225	100x200	10	14	C	POA
890-150-50003	160-180/250-280	150x250	10	20	C	POA

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TIMESAVER Wafer PE Butterfly Valve

Specification

- **Series 89/WAF**
- HDPE
- Bolting pattern to ASME/ANSI B 16.1 Class 125
- PE100
- Stainless Steel Disc
- NBR Seat
- d63 - 315 (DN50-300)
- DN350 - 450 available upon request
- Levers standard on sizes DN50-150
- Gearboxes standard on sizes DN200-300
- Gearboxes available on DN50-150 sizes upon request
- Stem extensions available upon request (150mm increments)



Code	d	DN	PN	Nominal Weight	Delivery Code	Gross Price
	mm	mm	Bar	Kg		£ GBP
891-050-50003	63	50	10	2	C	POA
891-080-50003	90	80	10	5	C	POA
891-100-50003	125 / 110	100	10	6	C	POA
891-150-50003	160 / 180	150	10	9	C	POA
891-200-50003	200 / 225	200	10	21	C	POA
891-250-50003	250 / 280	250	10	30	C	POA
891-300-50003	315	300	10	48	C	POA

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TRANSITION FITTINGS





TRANSITION FITTINGS
FOR GAS AND WATER



Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems, using either a traditional flange, threaded or a modern SupaGrip™ fitting.

All fittings supplied by Fusion are manufactured according to the appropriate industry standards with the mechanical joint between the metal and PE fully end loading.

There is a varied range of fittings available under the title transition fittings including valves, elbows, and straight transitions from d25 to 250 PE in both PE80 and PE100 materials.

Electrofusion coupling for quick and easy installation onto existing PE pipe

Mechanical coupler is **designed to be universal fit**

Lifting eye on sizes with a weight exceeding 10 kilos (DN 100-300)



Assembled **male or female transition adaptor** with coupler allows metric to threaded imperial connections.

Patented SupaGrip™ sealing support system with flexible bracket

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1. **Fusion Male transition coupler for GAS and WATER**
   Suitable for electrofusion welding on site but also available separately for manifold applications or pre fabrication. Other materials and threads are available upon request depending on specialist applications. A simple but effective solution for house connections, used by many operators internationally.

2. **Supa Maxi™ range of universal tensile for WATER.**
   The patented SupaGrip™ sealing support system with flexible bracket ensures full support of the gasket and full tensile strength on all pipe types up to PN16. Supa Maxi™ couplings are very easy to mount with the possibility of ±4° angular deflection, the permanent protection caps, the lifting eye and that they are tightened from the sleeve side with no need for re-tightening the bolts.

3. **Donkin Mechanical Coupler for GAS**
   The Series 604 mechanical coupler with PE tail has been designed as a transition fitting to join metallic and PE gas pipes. The mechanical coupler is designed to be universal in most diameters whilst the PE end is available in SDR17 PE80 pipe suitable for the low and medium pressure network.

4. **Meter Module Riser Fittings for GAS**
   The Series 218 Meter Module Riser Fittings are transition fittings designed to connect the underground PE pipework to the Emergency Control Valve at the inlet of a Meter Module. They can also be used on the outlet pipework to transition back to PE from the steel. Small diameters are available with threaded ends and the larger sizes with PN16 flanges for easy connection.

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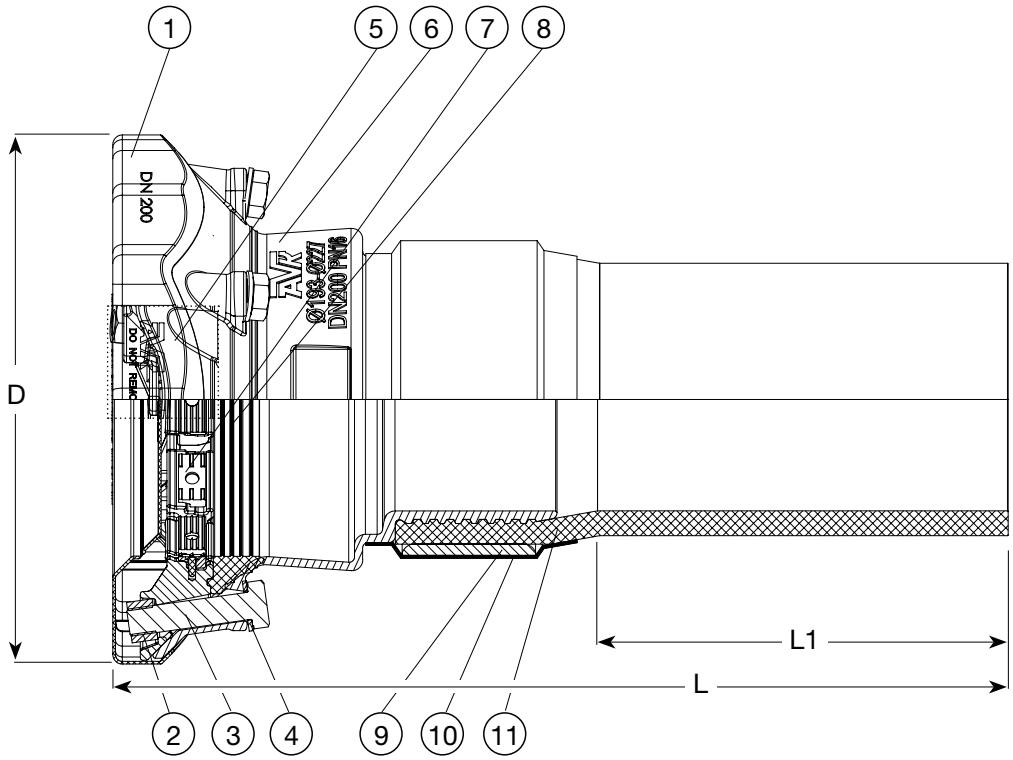
Supa Maxi™ Transition Coupling

Specification

- PN10 / PN16
- Ductile Iron
- EN 14525
- DN50-300



Code	DN/Ø	T	PN	D	L	L1	Weight	Delivery Code	Gross Price
	mm	mm	Bar	mm	mm	mm	Kg		£ GBP
635-071-00-266	50 - 63	48 - 71	10	200	540	300	4.5	C	POA
635-091-00-266	65 - 75	69 - 91	10	226	552	250	5.6	C	POA
635-105-00-266	80 - 90	82 - 106	10	235	533	250	7.5	C	POA
635-106-00-266	80 - 110	82 - 106	10	235	543	255	6	C	POA
635-133-00-266	100 - 110	104 - 133	10	268	547	250	10	C	POA
635-161-00-266	125 - 160	132 - 161	10	285	625	325	16	C	POA
635-188-00-266	150 - 160	159 - 188	10	340	644	325	18	C	POA
635-227-00-266	200 - 200	193 - 227	10	389	648	255	27	C	POA
635-257-00-266	225 - 250	224 - 257	10	437	788	340	49	C	POA
635-301-00-266	250 - 250	266 - 301	10	476	784	340	49	C	POA
635-356-00-266	300 - 315	314 - 356	10	545	784	355	64	C	POA
635-071-00-166	50 - 63	48 - 71	16	200	540	300	4.5	C	POA
635-091-00-166	65 - 75	69 - 91	16	226	552	250	5.6	C	POA
635-105-00-166	80 - 90	82 - 106	16	235	533	250	7.5	C	POA
635-106-00-166	80 - 110	82 - 106	16	235	543	255	6	C	POA
635-133-00-166	100 - 110	104 - 133	16	268	547	250	10	C	POA
635-161-00-166	125 - 159	132 - 159	16	285	625	325	16	C	POA
635-188-00-166	150 - 159	159 - 188	16	340	644	325	18	C	POA
635-227-00-166	200 - 200	193 - 227	16	389	648	255	27	C	POA
635-257-00-166	225 - 250	224 - 257	16	437	788	340	49	C	POA
635-301-00-166	250 - 250	266 - 301	16	476	784	340	49	C	POA
635-356-00-166	300 - 315	314 - 356	16	545	784	355	64	C	POA

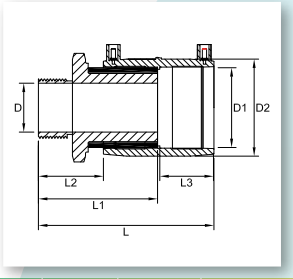


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Male Transition Coupler

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Coated CW617N Brass
- d25x¾" - 63x2"



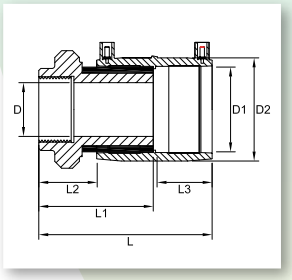


4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
ZCBKHFA25X0.8	25 x ¾"	138.5	99	61.5	37.5	¾	25	33.5	30	3	0.159	50	295 X 485 X 199	C	46.49
ZCBKHFA32X0.5	32 x ½"	170.0	100	62.5	37.5	½	32	43.0	45	3	0.38	50	295 X 485 X 199	C	111.09
ZCBKHFA32X0.8	32 x ¾"	138.5	99	61.5	37.0	¾	32	34.0	30	3	0.18	50	295 X 485 X 199	C	47.29
ZCBKHFA32X1	32 x 1"	149.5	110	72.5	38	1	32	43.0	45	3	0.24	40	295 X 485 X 199	A	58.09
ZCBKHFA32X1.3	32 x 1¼"	166.0	121	75.0	43	1¼	32	44.0	50	5	0.35	30	295 X 485 X 199	C	74.86
ZCBKHFA32X1.5	32 x 1½"	165.5	134	74.5	41	1½	32	44.0	60	5	0.45	24	295 X 485 X 199	C	85.13
ZCBKHFA40X1	40 x 1"	155.0	110	64.0	43	1	40	44.0	50	5	0.255	40	295 X 485 X 199	C	53.81
ZCBKHFA40X1.3	40 x 1¼"	167.0	121	77.0	44	1¼	40	51.5	40	5	0.36	25	295 X 485 X 199	A	74.15
ZCBKHFA40X1.5	40 x 1½"	179.0	134	88.0	43	1½	40	52.0	60	5	0.45	24	295 X 485 X 199	C	85.22
ZCBKHFA50X1	50 x 1"	160.0	110	69.0	41	1	50	44.0	60	5	0.28	30	295 X 485 X 199	C	60.59
ZCBKHFA50X1.3	50 x 1¼"	158.0	121	67.0	43	1¼	50	44.0	60	5	0.37	30	295 X 485 X 199	C	75.58
ZCBKHFA50X1.5	50 x 1½"	181.0	134	90.0	44	1	50	61.5	90	5	0.47	18	295 X 485 X 199	A	84.77
ZCBKHFA50X2	50 x 2"	200.0	150	98.0	48	2	50	62.0	120	10	0.71	12	295 X 485 X 199	C	120.91
ZCBKHFA63X1.3	63 x 1¼"	171.0	121	69.0	45	1¼	63	78.0	70	5	0.42	15	295 X 485 X 199	C	75.49
ZCBKHFA63X1.5	63 x 1½"	184.0	134	82.0	48	1½	63	78.0	120	10	0.50	15	295 X 485 X 199	B	85.48
ZCBKHFA63X2	63 x 2"	203.0	150	101.0	49	2	63	78.0	35	3	0.71	12	295 X 485 X 199	A	119.03

Female Transition Coupler

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Coated CW617N Brass
- d25x¾" - 63x2"





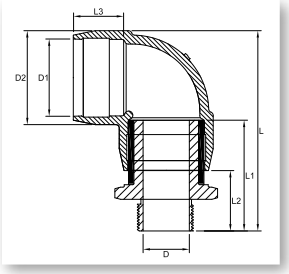
4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
XCBKHFA25X0.8	25 x ¾"	130.5	91	53.5	37.5	¾	25	33.5	30	3	0.18	50	295 X 485 X 199	C	45.24
XCBKHFA32X0.8	32 x ¾"	131.0	91	54.0	37.0	¾	32	34.0	30	3	0.21	50	295 X 485 X 199	C	46.13
XCBKHFA32X1	32 x 1"	139.5	100	62.5	38	1	32	43.0	45	3	0.25	40	295 X 485 X 199	C	54.34
XCBKHFA40X1	40 x 1"	148.0	100	57.0	43	1	40	44.0	50	5	0.28	40	295 X 485 X 199	C	56.48
XCBKHFA40X1.3	40 x 1¼"	155.0	109	65.0	44	1¼	40	51.5	40	5	0.39	25	295 X 485 X 199	C	70.49
XCBKHFA40X1.5	40 x 1½"	172.0	124	81.0	43	1½	40	52.0	60	5	0.53	24	295 X 485 X 199	C	87.71
XCBKHFA50X1.3	50 x 1¼"	157.0	109	66.0	43	1¼	50	44.0	60	5	0.38	25	295 X 485 X 199	C	71.83
XCBKHFA50X1.5	50 x 1½"	171.0	124	80.0	44	1	50	61.5	90	5	0.50	18	295 X 485 X 199	C	87.27
XCBKHFA50X2	50 x 2"	195.0	141	93.0	48	2	50	62.0	120	10	0.78	30	295 X 485 X 199	C	123.32
XCBKHFA63X1	63 x 1"	150.0	100	48.0	52	1	63	78.0	90	5	0.50	20	295 X 485 X 199	C	56.75
XCBKHFA63X1.5	63 x 1½"	178.0	124	76.0	48	1½	63	78.0	120	10	0.55	15	295 X 485 X 199	B	87.80
XCBKHFA63X2	63 x 2"	194.0	141	92.0	49	2	63	78.0	35	3	0.78	15	295 X 485 X 199	A	121.62

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Male Transition 90º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Coated CW617N Brass
- d25x¾" - 63x2"



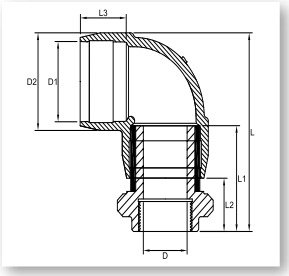


4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
ZEBKHFA25X900.8	25 x ¾"	131.0	99	55.0	44.0	¾	25	35.0	30	3	0.19	30	295 X 485 X 199	C	41.32
ZEBKHFA32X901	32 x 1"	154.0	110	70.0	40	1	32	44.0	60	5	0.28	36	295 X 485 X 199	C	65.23
ZEBKHFA40X901.3	40 x 1¼"	170.0	121	79.0	42	1¼	40	52.0	50	5	0.40	30	295 X 485 X 199	C	79.95
ZEBKHFA50X901.5	50 x 1½"	192.0	124	79.5	44.5	1½	50	63.0	90	5	0.54	15	295 X 485 X 199	C	90.93
ZEBKHFA63X902	63 x 2"	223.0	150	100.0	50	2	63	81.0	35	5	0.87	5	295 X 485 X 199	C	126.89

Female Transition 90º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Coated CW617N Brass
- d25x¾" - 63x2"





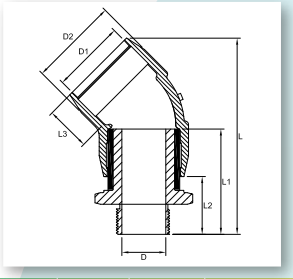
4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
XEBKHFA25X900.8	25 x ¾"	123.0	91	47.0	44.0	¾	25	35.0	30	3	0.31	40	295 X 485 X 199	C	40.35
XEBKHFA32X901	32 x 1"	144.0	100	60.0	40	1	32	44.0	60	5	0.30	36	295 X 485 X 199	C	61.39
XEBKHFA40X901.3	40 x 1¼"	158.0	109	67.0	42	1¼	40	52.0	50	5	0.52	30	295 X 485 X 199	C	52.97
XEBKHFA50X901.5	50 x 1½"	182.0	124	79.0	45	1½	50	63.0	90	5	0.65	30	295 X 485 X 199	C	93.42
XEBKHFA63X902	63 x 2"	214.0	141	91.0	50	2	63	81.0	35	5	0.95	10	295 X 485 X 199	C	130.54

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Male Transition 45º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Coated CW617N Brass
- d32x1" - 63x2"



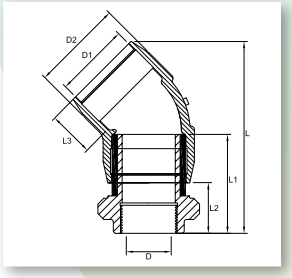


4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
ZEBKHFA32X451	32 x 1"	160.0	100	61.0	39.0	1	32	44.0	45	5	0.26	30	295 X 485 X 199	C	64.87
ZEBKHFA50X451.5	50 x 1½"	203.5	124	79.5	44.5	1½	50	64.0	90	5	0.54	30	295 X 485 X 199	C	64.34
ZEBKHFA63X452	63 x 2"	228.0	141	91.0	50	2	63	78.5	35	5	0.78	12	295 X 485 X 199	C	124.66

Female Transition 45º Elbow

Specification

- PE100
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Coated CW617N Brass
- d32x1" - 63x2"





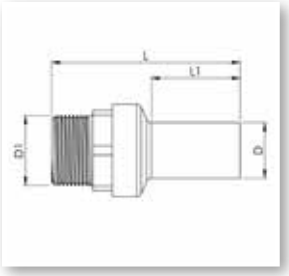
4mm Pin Fitting Code	Fitting Size	L	L1	L2	L3	D	D1	D2	Fusion Time	Cooling Time	Weight	Box Quantity	Box Size (W X L X D)	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	inch	mm	mm	secs	mins	Kg		mm		£ GBP
XEBKHFA32X451	32 x 1"	160.0	100	61.0	39.0	1	32	44.0	45	5	0.55	30	295 X 485 X 199	C	61.12
XEBKHFA40X451.3	40 x 1¼"	175.5	109	67.5	41.5	1¼	40	53.00	50	5	0.43	30	295 X 485 X 199	C	76.02
XEBKHFA50X451.5	50 x 1½"	203.5	124	79.5	44.5	1½	50	64.0	90	5	0.34	30	295 X 485 X 199	C	92.98
XEBKHFA63X452	63 x 2"	228.0	141	91.0	50	2	63	78.5	35	5	0.78	20	295 X 485 X 199	C	128.31

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Transition Adaptor | Brass (not coated) | Male

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Grade of brass CW617N
- d20x½" - 125x4"



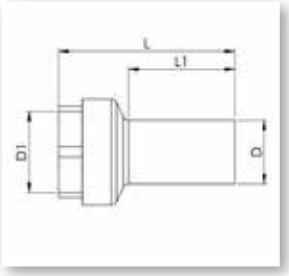


Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Male							
AX67100	20 X ½"	92	38	0.11	70	C	29.11
AX67101	25 x ¾"	99	40	0.12	50	B	29.11
AX67102	32 x 1"	110	44	0.18	30	A	39.33
AX67103	40 x 1¼"	121	49	0.27	15	A	53.78
AX67104	50 x 1½"	134	54	0.37	10	A	63.48
AX67105	63 x 2"	150	63	0.59	6	A	97.33
AX67106	75 x 2½"	165	73	0.89	15	B	164.51
AX67107	90 x 3"	181	82	1.14	10	A	200.26
AX67108	110 x 4"	194	84	1.86	6	B	344.31
AX67109	125 x 4"	202	92	3.00	4	B	603.62

Transition Adaptor | Brass (not coated) | Female

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Grade of brass CW617N
- d20x½" - 125x4"





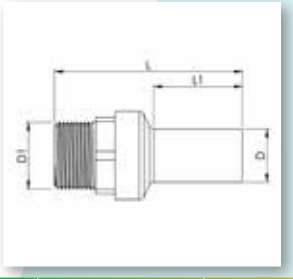
Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Female							
AX67110	20 X ½"	82	38	0.12	70	C	27.84
AX67111	25 x ¾"	91	40	0.15	50	C	27.84
AX67112	32 x 1"	100	44	0.20	30	A	35.64
AX67113	40 x 1¼"	109	49	0.32	15	A	50.20
AX67114	50 x 1½"	124	54	0.38	10	B	66.01
AX67115	63 x 2"	141	63	0.60	6	A	99.76
AX67116	75 x 2½"	163	73	0.90	15	B	171.47
AX67117	90 x 3"	181	82	1.15	10	B	231.16
AX67118	110 x 4"	190	84	1.87	6	C	344.31
AX67119	125 x 4"	165	91	1.92	6	C	615.75

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Transition Adaptor | Brass DZR | Male

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Grade of brass CW511L
- d20x½" - 125x4"



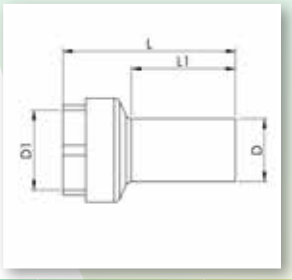


Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Male							
AX67141	20 X ½"	92	38	0.11	70	C	23.52
AX67143	25 x ¾"	99	40	0.12	50	C	29.32
AX67144	32 x 1"	110	44	0.18	30	C	32.59
AX67145	40 x 1¼"	121	49	0.27	15	C	47.45
AX67146	50 x 1½"	134	54	0.37	10	C	71.18
AX67147	63 x 2"	150	63	0.59	6	C	90.80
AX67148	75 x 2½"	165	73	0.89	15	C	157.02
AX67149	90 x 3"	181	82	1.14	10	C	231.26
AX67150	110 x 4"	194	84	1.86	6	C	340.93
AX67151	125 x 4"	202	92	3.00	4	C	613.32

Transition Adaptor | Brass DZR | Female

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Grade of brass CW511L
- d20x½" - 125x4"





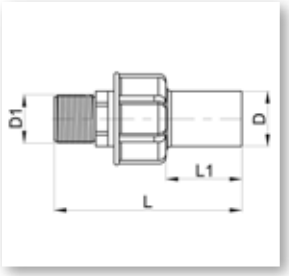
Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Female							
AX67152	20 X ½"	82	38	0.12	70	C	29.74
AX67154	25 x ¾"	91	40	0.15	50	C	31.00
AX67155	32 x 1"	100	44	0.20	30	C	34.59
AX67156	40 x 1¼"	109	49	0.32	15	C	53.57
AX67157	50 x 1½"	124	54	0.38	10	C	63.69
AX67158	63 x 2"	141	63	0.60	6	C	102.61
AX67159	75 x 2½"	163	73	0.90	15	C	163.98
AX67160	90 x 3"	181	82	1.15	10	C	220.93
AX67161	110 x 4"	190	84	1.87	6	C	379.32
AX67162	125 x 4"	165	91	1.92	6	C	625.66

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Transition Adaptor | Stainless Steel | Male

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPT
- Material - Stainless Steel AISI G316
- d20x½" - 63x2"



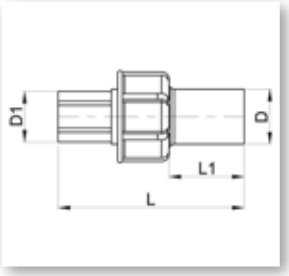


Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Male							
AX67131	20 X ½"	85	38	0.10	70	C	55.05
AX67132	25 x ¾"	95	40	0.11	50	C	57.68
AX67133	32 x 1"	105	44	0.17	30	C	66.12
AX67134	40 x 1¼"	115	49	0.25	15	C	81.94
AX67135	50 x 1½"	130	54	0.34	10	B	112.20
AX67136	63 x 2"	148	63	0.53	6	B	132.03

Transition Adaptor | Stainless Steel | Female

Specification

- PE100
- SDR11
- Water PN16
- Gas 10 Bar
- Thread BSPP
- Material - Stainless Steel AISI G316
- d20x½" - 63x2"





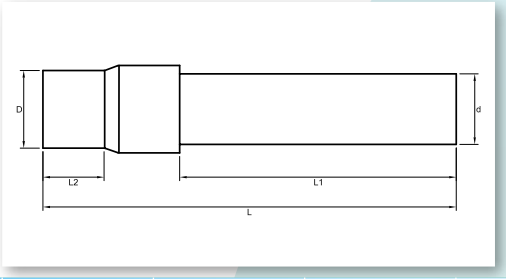
Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas 10 Bar I Female							
AX67120	20 X ½"	82	38	0.10	70	C	49.25
AX67137	25 x ¾"	91	40	0.11	50	C	60.32
AX67121	32 x 1"	100	44	0.17	30	B	65.91
AX67138	40 x 1¼"	109	49	0.25	15	C	87.11
AX67139	50 x 1½"	124	54	0.34	10	C	123.70
AX67140	63 x 2"	141	63	0.53	6	B	156.71

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PE - Steel Transition Piece | Weldable end

Specification

- PE100
- SDR 11 - Water PN16 / Gas upon request
- SDR 17 - Water PN10 / Gas upon request
- d25x¾" - 400x16"



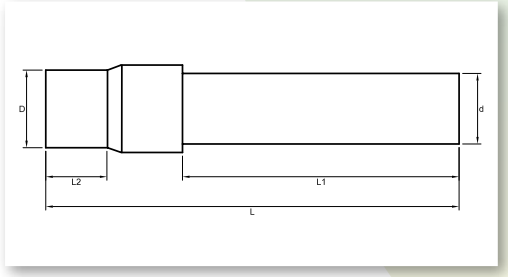


Code	D-d	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas upon request								
PESBKH25X0.75W	25 x ¾"	381	194	126	0.55	10	C	56.42
PESBKH32X1W	32 x 1"	390	194	135	0.61	10	C	63.59
PESBKH40X1.3W	40 x 1¼"	407	193	151	0.98	4	C	75.61
PESBKH50X1.5W	50 x 1½"	426	190	169	1.20	4	C	88.58
PESBKH63X2W	63 x 2"	448	190	190	1.62	4	C	106.30
PESBKH75X2.5W	75 x 2½"	545	130	310	2.95	2	C	262.69
PESBKH90X3W	90 x 3"	560	150	310	3.95	2	C	285.15
PESBKH110X4W	110 x 4"	580	160	310	7.05	2	C	419.60
PESBKH125X4W	125 x 4"	580	160	310	7.30	2	C	433.31
PESBKH140X5W	140 x 5"	580	160	310	8.00	1	C	712.13
PESBKH160X6W	160 x 6"	600	160	310	10.50	1	C	784.90
PESBKH180X6W	180 x 6"	600	160	310	11.00	1	C	819.28
PESBKH200X8W	200 x 8"	620	150	310	17.50	1	C	1,237.61
PESBKH225X8W	225 x 8"	600	130	310	18.00	1	C	1,276.74
PESBKH250X10W	250 x 10"	630	180	300	30.50	1	C	2,545.36
PESBKH280X10W	280 x 10"	-	-	-	31.00	1	C	2,666.63
PESBKH315X12W	315 x 12"	780	180	315	42.42	9	C	3,284.28
PE100 I SDR17 I Water PN10 I Gas upon request								
PESBKHV200X8W	200 x 8"	750	114	315	21.78	1	C	1,183.73
PESBKHV225X8W	225 x 8"	620	132	315	23.54	19	C	1,285.28
PESBKHV250X10W	250 x 10"	920	130	315	44.06	1	C	2,796.87
PESBKHV315X12W	315 x 12"	-	-	-	46.50	1	C	3,038.46
PESBKHV355X14W	355 x 14"	-	-	-	60.00	1	C	5,069.09
PESBKHV400X16W	400 x 16"	-	-	-	83.20	1	C	6,136.19

PE - Steel Transition Piece | Threaded end

Specification

- PE100
- SDR11
- Water PN16
- Gas upon request
- d25x¾" - 125x4"





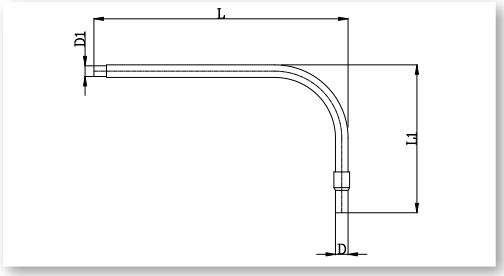
Code	D-D1	L	L1	L2	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas upon request								
PESBKH25X0.75T	25 x ¾"	432	67	300	0.64	35	C	82.25
PESBKH32X1T	32 x 1"	442	75	300	0.88	20	C	93.85
PESBKH40X1.3T	40 x 1¼"	446	79	300	1.18	12	C	98.71
PESBKH50X1.5T	50 x 1½"	471	83	300	1.49	9	C	107.14
PESBKH63X2T	63 x 2"	483	90	300	2.08	6	C	130.45
PESBKH75X2.5T	75 x 2½"	522	105	300	3.01	4	C	330.81
PESBKH90X3T	90 x 3"	544	121	300	3.94	2	C	400.41
PESBKH110X4T	110 x 4"	556	123	300	5.91	5	C	496.16
PESBKH125X4T	125 x 4"	590	135	300	6.75	4	C	536.76

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PE - Steel Curved Transition Piece
Weldable end

Specification

- PE100
- SDR11
- Water PN16
- Gas upon request
- d25 x ¾" - 63 x 2"



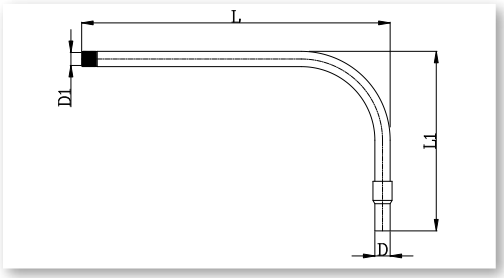


Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas upon request							
PESBKH25X0.75WC	25 x ¾"	800	500	0.65	150	C	194.46
PESBKH32X1WC	32 x 1"	800	500	0.95	90	C	212.49
PESBKH40X1.3WC	40 x 1¼"	800	550	1.25	50	C	233.58
PESBKH50X1.5WC	50 x 1½"	800	600	1.45	50	C	264.06
PESBKH63X2WC	63 x 2"	800	650	2.15	30	C	325.01

PE - Steel Curved Transition Piece
Threaded end

Specification

- PE100
- SDR11
- Water PN16
- Gas upon request
- d25 x ¾" - 63 x 2"





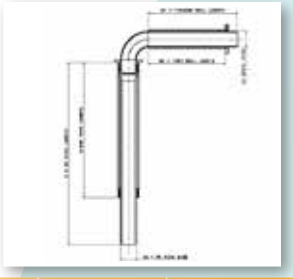
Code	D-D1	L	L1	Weight	Box Quantity	Delivery Code	Gross Price
	mm	mm	mm	Kg			£ GBP
PE100 I SDR11 I Water PN16 I Gas upon request							
PESBKH25X0.75TC	25 x ¾"	800	500	0.65	150	C	206.06
PESBKH32X1TC	32 x 1"	800	500	0.95	90	C	224.93
PESBKH40X1.3TC	40 x 1¼"	800	550	1.25	50	C	248.45
PESBKH50X1.5TC	50 x 1½"	800	600	1.45	50	C	281.46
PESBKH63X2TC	63 x 2"	800	650	2.15	30	C	345.26

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Mains to Meter Factory Entry Elbow

Specification

- PN5.5 (SDR11) / PN2 (SDR17)
- SDR11 / SDR17 (see table below)
- GIS/PL3
- PE x 001 - Screwed end 1½" and 2" (40 and 63mm)
- PE x 002 - Plain end 3" and above (90, 125 and 180mm)
- d40 - 125



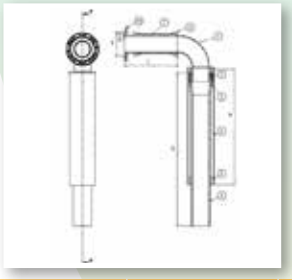


Code	PE	SDR	B1 (Through Wall)	C (PE80 Length)	D (GRP Length)	E (Steel Pipe)	B2 (Through Wall) Pe Pipe DN	Weight	Delivery Code	Gross Price
	mm		mm	mm	mm	mm	mm	Kg		£ GBP
217-0401-345-10-090	40	11	345	1	0.9	48.1	63	6	C	492.26
217-0401-500-10-090	40	11	500	1	0.9	48.1	63	7	C	507.46
217-0632-150-10-090	63	11	150	1	0.9	60.3	75	7	C	613.81
217-0632-345-10-090	63	11	345	1	0.9	60.3	75	9	C	674.58
217-0632-500-10-090	63	11	500	1	0.9	60.3	75	10	C	735.36
217-0632-500-20-090	63	11	500	2	1.9	60.3	75	13	C	941.98
217-0632-610-10-090	63	11	610	1	0.9	60.3	75	11	C	796.13
217-0903-345-10-075	90	11	345	1	0.75	88.9	110	14	C	1,185.07
217-0903-500-20-150	90	11	500	2	1.5	88.9	110	21	C	1,610.48
217-0903-610-20-150	90	11	610	2	1.5	88.9	110	22	C	1,732.03
217-0903-610-10-075	90	11	610	1	0.75	88.9	110	19	C	1,367.39
217-1254-345-10-075	125	11	345	1	0.75	114.3	125	24	C	1,975.12
217-1254-610-10-075	125	11	610	1	0.75	114.3	125	30	C	2,947.48
217-1254-610-20-150	125	11	610	2	1.5	114.3	125	38.5	C	3,798.30

Mains to Meter Factory Entry Elbow with Split Flange Ring

Specification

- PN5.5 (SDR11) / PN2 (SDR17)
- SDR11 / SDR17 (see table below)
- GIS/PL3
- d90 - 180





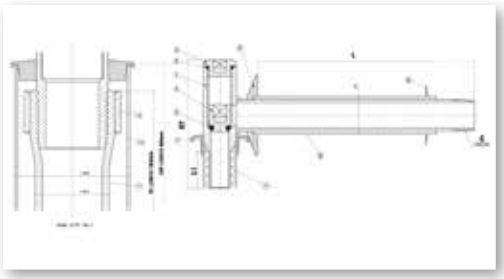
Code	PE	SDR	D	DN	A (GRP Length)	B (Length)	C (Through Wall Length)	Weight	Delivery Code	Gross Price
	mm		mm	mm	mm	mm	mm	Kg		£ GBP
217-0903-345-10-07501	90	11	134	80	750	1000	345	16	C	1,853.57
217-0903-345-20-15001	90	11	134	80	1500	2000	345	16	C	2,400.53
217-0903-500-20-15001	90	11	134	80	1500	2000	500	23	C	2,491.68
217-0903-610-20-15001	90	11	134	80	1500	2000	610	24	C	2,643.62
217-1254-345-10-07501	125	11	158	100	750	1000	345	27	C	2,704.39
217-1254-610-10-07501	125	11	158	100	750	1000	610	33	C	2,947.48
217-1254-610-20-15001	125	11	158	100	1500	2000	610	41	C	3,798.30
217-1806-345-10-07521	180	17	215	150	750	1000	345	39	C	4,011.00
217-1806-610-10-07521	180	17	215	150	750	1000	610	46	C	4,314.86
217-1806-610-20-15021	180	17	215	150	1500	2000	610	59	C	5,591.09

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Mains to Meter Building Entry Tee

Specification

- PN4
- GIS/PL3
- DN20 - 63



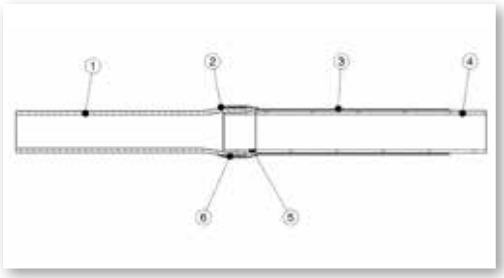


Code	DN	Through Wall	L	H7	L1	DØ	G Thread	PE Length	GRP Length	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
219-200-00	20	150	183	70	36	32	R¾	0	0	0.7	C	94.20
219-200-01	20	345	378	70	36	32	R¾	0	0	1.1	C	106.36
219-200-02	20	500	533	70	36	32	R¾	0	0	1.5	C	118.51
219-250-00	25	150	183	70	36	32	R¾	0	0	0.8	C	121.55
219-250-01	25	345	378	70	36	32	R¾	0	0	1.1	C	133.70
219-250-02	25	500	533	70	36	32	R¾	0	0	1.5	C	145.85
219-321-00	32	150	189	86	36	40	R1	0	0	1.2	C	136.74
219-321-01	32	345	384	86	36	40	R1	0	0	1.6	C	148.89
219-321-02	32	500	533	86	36	40	R1	0	0	2.1	C	161.04
219-321-03	32	610	649	86	36	40	R1	0	0	2.5	C	173.20
219-632-00-001	63	150	196	125	50	75	R2	1000	900	4.0	C	650.27
219-632-01-001	63	345	391	125	50	75	R2	1000	900	5.4	C	668.50
219-632-02-001	63	500	546	125	50	75	R2	1000	900	6.8	C	686.74
219-632-03-001	63	610	646	125	50	75	R2	1000	900	7.8	C	704.96

Mains to Meter Below Ground Entry Fitting

Specification

- PN5.5 (SDR11) / PN2 (SDR17)
- GIS/PL3
- PE x 001 - Screwed end from ¾" to 2"
- PE x 002 - Plain end from 3" to 6"
- d25 - 180





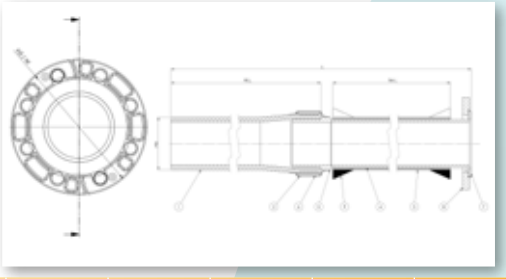
Code	Range	Spigot Type	Diameter of Through Wall PE	Weight	Delivery Code	Gross Price
	mm	mm		Kg		£ GBP
218-0250-050-05-0-1	25mm SDR11 x R¾"	0.5M x 0.5M PE80	40	3.6	C	121.55
218-0321-050-05-0-1	32mm SDR11 x R1"	0.5M x 0.5M PE80	50	4.1	C	151.94
218-0632-050-05-0-1	63mm SDR11 x R2"	0.5M x 0.5M PE80	75	5.3	C	577.35
218-0903-050-05	90mm SDR11 x 3" Plain	0.5M x 0.5M PE80	110	10	C	820.44
218-0903-075-12	90mm SDR11 x 3" Plain	0.75M x 1.25M PE80	110	16	C	1,002.76
218-1254-050-10	125mm SDR11 x 4" Plain	0.5M X 1.0M PE80	125	19	C	1,337.00
218-1254-075-12	125mm SDR11 x 4" Plain	0.75M x 1.25M PE80	125	25	C	1,580.09
218-1254-100-15	125mm SDR11 x 4" Plain	1.0M x 1.5M PE80	125	31	C	1,792.80
218-1806-050-10-2	180mm SDR17 x 6" Plain	0.5M x 1.0M PE80	200	32	C	2,096.67
218-1806-075-12-2	180mm SDR17 x 6" Plain	0.75M x 1.25M PE80	200	42	C	2,886.71
218-1806-100-15-2	180mm SDR17 x 6" Plain	1.0M x 1.5M PE80	200	52	C	3,190.57
218-1806-120-15-2	180mm SDR17 x 6"Plain	1.2M x 1.5M PE80	200	59	C	3,433.67

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Mains to Meter Below Ground Entry Fitting with Split Flange

Specification

- PN5.5 (SDR11) / PN2 (SDR17)
- GIS/PL3
- d90 - 180



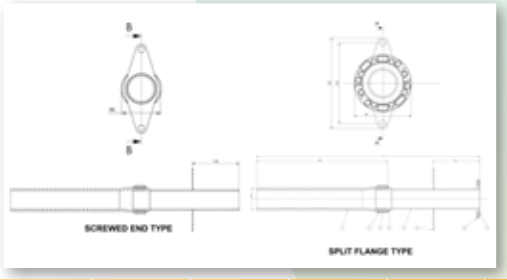


Code	Connection DN	H3	L	Pipe Diameter	PE Length	SDR	L Through Wall	W	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
218-0903-050-05-02	80	200	1027	90	500	11	450	200	14	C	1,276.23
218-0903-075-10-02	80	200	1777	90	1000	11	700	200	19	C	1,458.55
218-1254-050-10-02	100	220	1075	125	1000	11	450	220	21	C	2,400.53
218-1254-075-12-02	100	220	2025	125	1250	11	700	220	27	C	2,643.62
218-1254-100-15-02	100	220	2525	125	1500	11	950	220	33	C	2,066.27
218-1806-050-10-22	150	285	1528	180	1000	17	0.45	285	33	C	3,464.05
218-1806-075-12-22	150	285	2028	180	1250	17	700	285	43	C	3,798.30
218-1806-100-15-22	150	285	2528	180	1500	17	950	285	53	C	4,132.55
218-1806-120-15-22	150	285	2728	180	1500	17	1150	285	60	C	4,314.86

Mains to Meter Module Riser Fitting with Split Flange

Specification

- PN5.5 (SDR11) / PN2 (SDR17)
- GIS/PL3
- d25 - 250





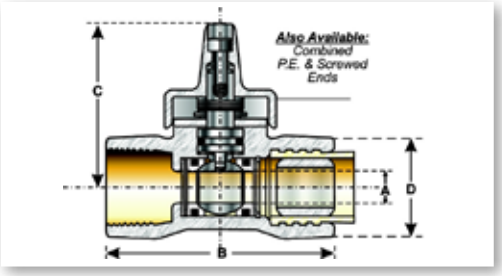
Code	Connection DN	Dh	H3	L	L6	Pipe Dia	PE Length	SDR	W	Delivery Code	Gross Price
	mm		mm	mm	mm	mm	mm	mm	mm		£ GBP
218-0250-050-07-0102	R¾	164	200	1276	170	25	750	11	46	C	332.56
218-0321-050-07-0102	R1	164	200	1276	170	32	750	11	52	C	408.89
218-0632-050-07-0202	50	214	250	1276	170	63	750	11	165	C	1,002.76
218-0903-050-07-0202	80	269	310	1277	295	90	750	11	200	C	1,643.99
218-0904-050-07-0202	100	309	350	1277	269	90	750	11	220	C	1,686.21
218-1254-050-07-0202	100	309	350	1275	269	125	750	11	220	C	1,673.02
218-1256-050-07-0202	150	409	450	1275	231	125	750	11	285	C	1,884.97
218-1806-050-07-2202	150	409	450	1278	231	180	750	17	285	C	2,200.90
218-1808-050-07-2202	200	509	550	1278	256	180	750	17	340	C	2,275.48
218-2508-050-07-2202	200	509	550	1288	256	250	750	17	340	C	3,275.63
218-2509-050-07-2202	250	609	650	1288	218	250	750	17	405	C	3,963.50

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Ball Valve | PE Pipe Ends

Specification

- PN4
- Ducitile Iron Body / PE Pipe Ends
- Stainless Steel Ball
- GIS/V4
- GIS/PL3
- DN32 - 63



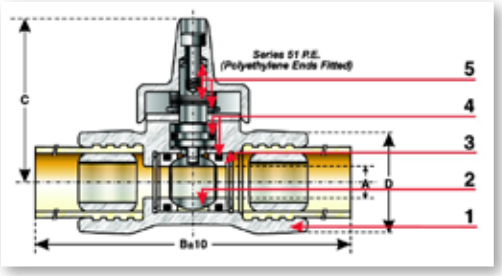


Code	DN	A	B	C	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	Kg		£ GBP
451-032-05-7213001	32	14.5	302	73	1.3	C	458.40
451-063-05-7213001	63	30	436	84	3.7	C	830.61

Ball Valve | PE to Screw Ends

Specification

- PN4
- Ducitile Iron Body / PE to Screw Ends
- Stainless Steel Ball
- GIS/V4
- GIS/PL3
- DN 1" to 2" / 25 - 63





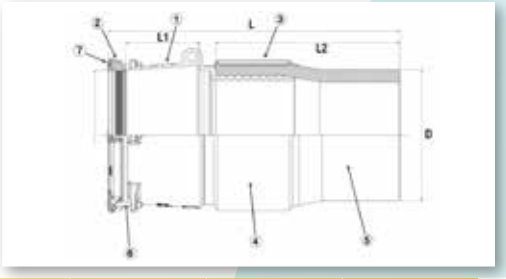
Code	DN	A	B	C	D	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg		£ GBP
451-323-05-7310001	1"x32	14.5	201	73	43	1.3	C	179.31
451-323-05-7413001	1"x25	11.5	197	72	35	0.9	C	308.43
451-636-05-7311001	2"x63	30	291	84	71	3.7	C	342.10
451-636-05-7413001	2"x63	30	291	84	71	3.0	C	614.57

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Universal Transition Coupler

Specification

- PN2
- GIS/PL3
- Ductile Iron / PE Tail
- d90 - 355



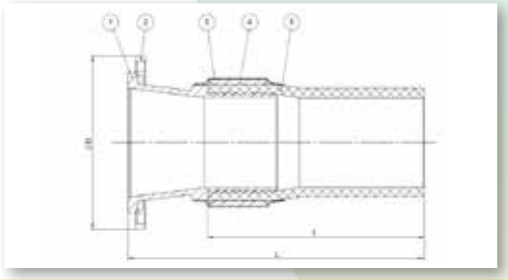


Code	D (Size Range)	Range	L	L1	L2	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	Kg		£ GBP
604-106-090-1661000	90mm SDR17x3"	84-106	732	161	500	7.0	C	668.50
604-133-090-1661000	90mm SDR17x4"	109-133	739	164	500	9.0	C	850.81
604-133-125-1661000	125mm SDR17x4"	109-133	744	164	500	11	C	911.59
604-183-125-1661000	125mm SDR17x6"	157-183	754	170	500	16	C	1,124.31
604-183-180-1661000	180mm SDR17x6"	157-183	754	170	500	20	C	1,185.07
604-242-250-1661000	250mm SDR17x8"	218-242	769	180	500	43	C	2,248.59
604-292-250-1661000	250mm SDR17x10"	266-292	782	190	500	47	C	2,522.07
604-292-315-1661000	315mm SDR17x10"	266-292	774	190	500	59	C	2,643.62
604-327-315-1661000	315mm SDR17x12"	301-327	787	195	500	62	C	3,099.41
604-350-315-1661000	315mm SDR17x12"	301-327	792	200	500	64	C	3,312.12
604-327-355-1661000	355mm SDR17x12"	324-350	787	195	500	80	C	4,922.60
604-350-355-1661000	355mm SDR17x12"	327-301	792	200	500	82	C	5,135.30

PE100 Flange Adaptor

Specification

- PN7
- PN16 flange drillings (ASA 150 Optional)
- Ductile Iron / PE100 Tail
- GIS/PL3
- d80-350





Code	DN	PE Pipe Size	D	df	L	l	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	Kg		£ GBP
39-090-50-011203001	80	90	200	35	636	500	9.0	C	972.36
39-090-50-021203001	100	90	220	35	641	500	10	C	1,276.23
39-125-50-021203001	100	125	220	35	637	500	12	C	1,397.77
39-125-50-031203001	150	125	285	36	651	500	18	C	1,944.73
39-180-50-031203001	150	180	285	36	657	500	20	C	2,309.36
39-250-50-041203101	200	250	340	40	1157	1000	46	C	3,494.44
39-250-50-051203101	200	250	400	40	1185	1000	51	C	4,406.03
39-315-50-051203101	250	315	400	40	1185	1000	64	C	4,740.27
39-315-50-061203101	300	315	455	43	1192	1000	75	C	5,955.73
39-355-50-061203101	300	355	455	43	1192	1000	84	C	6,715.39
39-315-50-071203101	350	315	505	45	1196	1000	82	C	6,806.55
39-355-50-071203101	350	355	505	45	1196	1000	93	C	7,019.26

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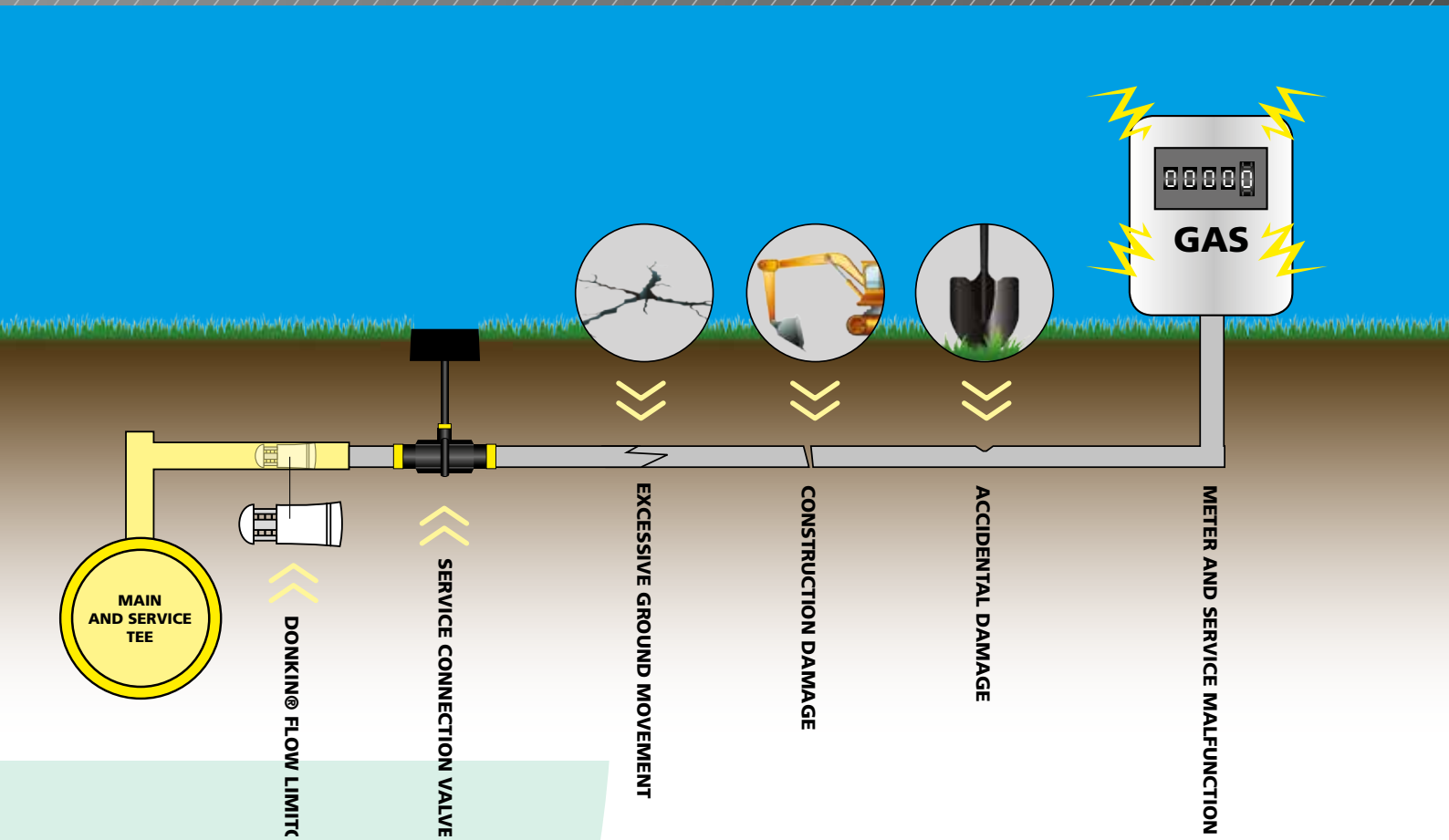


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FLOW LIMITORS



FLOW LIMITORS
FOR GAS



Series 310 Flow Limitor range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.

Should gas flow exceed limits the flow limitor will simultaneously trip and shut-off the gas, remaining closed until repairs have been made. Once the fault has been rectified, a small bleed-by flow enables the service to regain pressure, equalising the pressure with the main. The unit will automatically reset for normal operation without intervention.

The range consists of products that fit in the service pipe, tapping tee outlet and also integrated into electrofusion reducers. Sizes range from d25 to 32 with products approved to standards such as GIS/EFV1, MSS SP 115 or BGE/S/V/5.

Features

- Tamper proof and maintenance free.
- Direction of flow indicator permanently moulded into the valve to ensure correct installation.
- Automatic self-acting operation.
- Installation at any angle.
- Bleed-by design provides automatic reset.
- All units are individually tested.

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Integral Flow Limitor

Specification

- d32 Integral Flow Limitor
- Kitemark approved to GIS/EFV1
- Fits in tapping tee outlet
- Range: 75 mBar - 5 Bar
- d32



Code	d	PN	Weight	Delivery Code	Gross Price
	mm	Bar	Kg		£ GBP
310-032-00-6101	32	5	0.034	C	111.50

Specification

- d32 Integral Flow Limitor Approved to MSS SP-115
- Fits in Tapping Tee Outlet
- Range: 0.69 - 6.9 Bar
- d32



Code	d	PN	Weight	Delivery Code	Gross Price
	mm	Bar	Kg		£ GBP
310-032-00-6103	32	6.9	0.047	C	116.52

Specification

- d25 Integral Flow Limitor
- Approved to BGE/S/V/5 and MSS SP-115
- Fits into service pipe
- Range: 500mBar - 4.0 Bar
- d25



Code	d	PN	Weight	Delivery Code	Gross Price
	mm	Bar	Kg		£ GBP
310-025-00-6106	25	4	0.4	C	126.51

Specification

- d32 High Capacity Integral Flow Limitor
- Approved to BGE/S/V/5 and MSS SP-115
- Fits into service pipe
- Range: 500mBar - 4 Bar
- d32



Code	d	PN	Weight	Delivery Code	Gross Price
	mm	Bar	Kg		£ GBP
310-032-00-6107	32	4	0.4	C	135.23

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Electrofusion Integral Flow Limitor

Specification

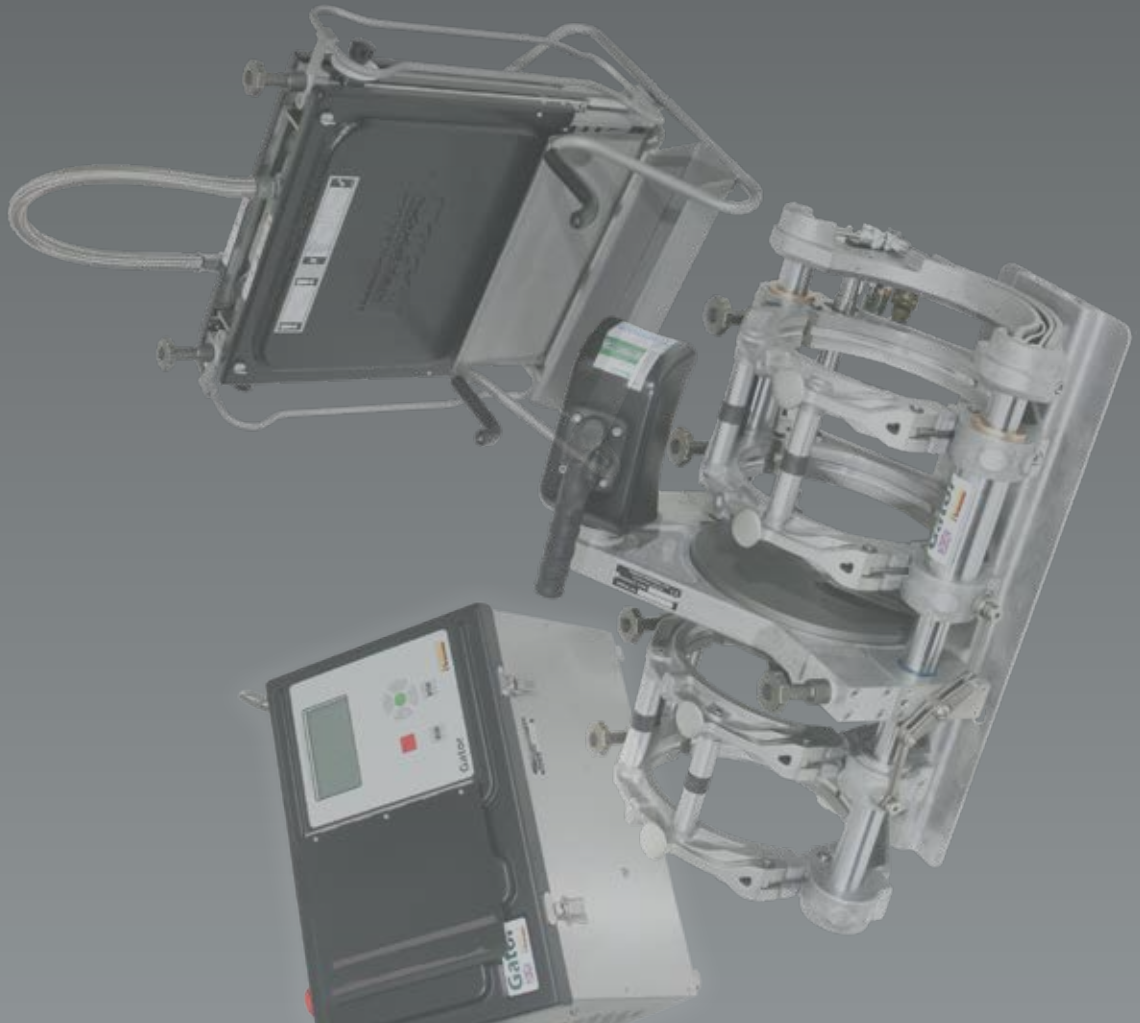
- Integral Flow Limitor Approved to MSS-SP-115
- Fits into electrofusion coupler or reducer
- Range: 0.69 Bar - 7 Bar
- d32x20, 25 and 32mm



Code	d	PN	Weight	Delivery Code	Gross Price
	mm	Bar	Kg		£ GBP
310-032-00-8000	32x25	7	0.2	C	118.70
310-032-00-8100	32x32	7	0.2	C	131.89
310-032-00-8200	32x20	7	0.1	C	146.54

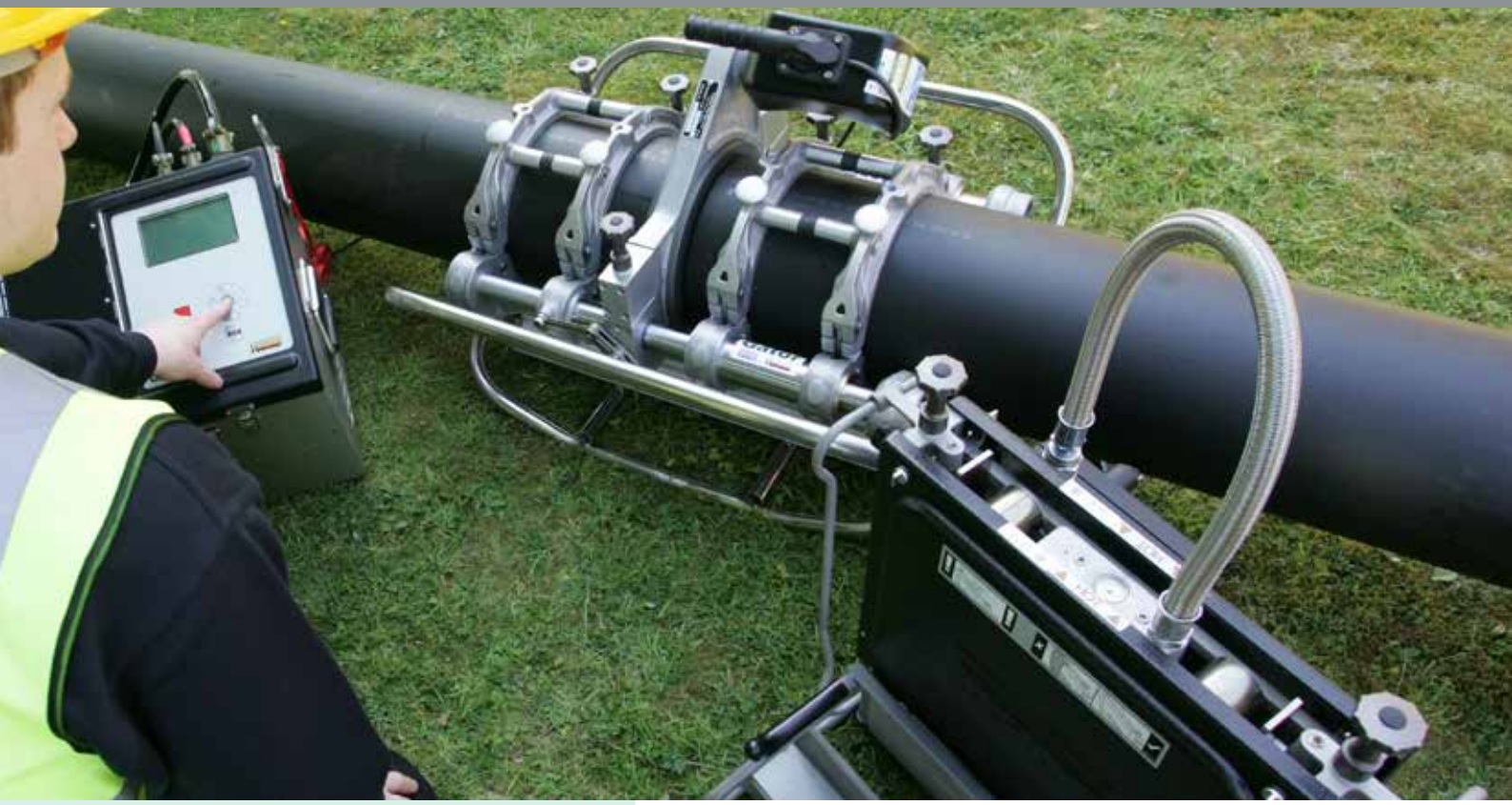
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EQUIPMENT AND ANCILLARIES





Gator I Automatic Butt Fusion



The gator range of machines have been designed and developed to be used on gas and water pressure polyethylene pipes for distribution networks.

The best possible control of the joining process is achieved through an integral computer which will control and monitor all the jointing parameters: time, temperature, pressure, movement and sequence.

The welding process will not continue if any of these parameters are not within the specified limits contained in the selected welding standard.

Designed and manufactured to meet or exceed GIS/PL2-3:2015 and ISO 12176-1:2017.

Features

- 21 internationally approved butt welding standards including ISO 21307
- Manufactured to ISO 12176 part 3 and part 4 compliant
- Electronic trim stops protect against over trimming
- Large backlit display with simple user multilingual interface
- Fast clamp system to improve productivity
- Data recording of 2,000 weld records
- High quality electrohydraulic pump, motor, valves and control circuit

Standards

- ISO 12176-1:2017
- GIS/PL2-3:2015

Data Output

- Printer - Thermal Paper
- USB Memory device - Text file / JointManager
- Bluetooth - ControlPoint/BlueBox (upon request)

Memory

- Internal memory capacity - Up to 2,000 records
- Back up to SD card - Up to 400,000 records
- Via ControlPoint (upon request)

Available on request

- Knife-edge conversion
- Stub flange adaptor

Removable Clamp

The fourth clamp on the Gator can be removed to facilitate the butt fusion of long spigot fittings.

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Gator | Automatic Butt Fusion | Control Panel



Continuously monitored		
Temperature	ºC	
Movement	mm	
Pressure	Bar	
Time	Secs	
Trimmer current	Amps	
Heater continuity	Ω	
Pipe slippage	mm	
Oil Level	ml	

Fully Automatic Features

1. Machine sequencing
2. Trim and feathering cycle
3. Pipe slippage check
4. Static and dynamic drag measurement
5. Heater plate temperature control
6. Initial bead up distance control
7. Heater retraction
8. Pressure control at bead up, soak, fusion, and cool time phases
9. Out of specification early warnings

Operator Contribution

1. Input pipe and operator details
2. Inspect and approve trim

Preprogrammed parameters

1. 15 internationally approved welding standards containing specified:
   - Heater temperatures
   - Fusion pressures
   - Soak times
   - Cooling times
2. Data management systems
3. Diagnostic routines

Gator | Automatic Butt Fusion | Specification

	GATOR 180		GATOR 250		GATOR 315		GATOR 400	
Range	**63 - 180**		**63 - 250**		**90 - 315**		**200 - 400**	
Nominal Input Voltage (V)	110	220	110	220	110	220	110	220
Input Frequency (Hz)	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Min. Generator Output (KVA)	3.5	3.5	4.0	4.0	6.0	6.0	6.5	6.5

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Gator | Automatic Butt Fusion | Order Codes

Code	Gator Size	Description	Plug Type	Delivery Code	Gross Price £ GBP
G180110AFE	180	110 volt - yellow 3 pin plug		C	POA
G250110AFE	250			C	POA
G315110AFE	315			C	POA
G400110AFE-2	400			C	POA
G180220AFG	180	220 volt - black 2 pin plug		C	70,820.83
G250220AFG	250			C	71,758.33
G315220AFG	315			C	76,182.49
G400220AFG-2	400			C	109,106.19
G180220AFE	180	220 volt - blue 3 pin plug		C	68,842.23
G250220AFE	250			B	70,803.14
G315220AFE	315			B	76,164.73
G400220AFE-2	400			B	109,106.19

Gator Liners

Features

- Butt Fusion liners are designed to maximise the size range of the machine.
- All sizes are available in cast aluminium
- Sizes up to 180mm diameter are also available in an engineering plastic called Noryl. Noryl liners are extremely tough and very light.



Aluminium code	Plastic code	Size mm	To fit machine sizes	Delivery Code	Gross Price Aluminium £ GBP	Gross Price Plastic £ GBP
BFL400355	N/A	400x355	400	B	2,901.02	N/A
BFL400315	N/A	400x315	400	B	1,799.96	N/A
BFL315280	N/A	315x280	400, 315	C	1,353.07	N/A
BFL315250	N/A	315x250	400, 315	B	1,227.43	N/A
BFL315200	N/A	315x200	400,315	C	2,721.58	N/A
BFL250225	N/A	250x225	400,315,250	C	1,024.79	N/A
BFL250200	N/A	250x200	400,315,250	B	1,038.85	N/A
BFL250180	BFL250180PT	250x180	400,315,250	B	1,161.74	548.10
BFL180160	BFL180160PT	180x160	315,250,180	C	1,617.19	217.43
BFL180140	BFL180140PT	180x140	315,250,180	C	1,417.67	332.99
BFL180125	BFL180125PT	180x125	315,250,180	B	1,334.36	260.93
BFL180110	BFL180110PT	180x110	315,250,180	B	1,553.10	304.28
BFL18090	BFL18090PT	180x90	315,250,180	B	1,337.12	292.18
BFL18075	BFL18075PT	180x75	250,180	C	1,265.34	370.98
BFL18063	BFL18063PT	180x63	250,180	C	1,149.49	254.55

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THE GOOD GUIDE TO
BUTT FUSION JOINTING



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

- Understand the equipment required.
- Understand the principles of polyethylene (PE) pipe butt fusion jointing.
- Identify pipe and appropriate fitting markings.
- Site the equipment.
- Carry out pre-jointing machine and equipment checks.
- Make satisfactory butt fusion joints across a range of pipe sizes.
- Inspect for, and identify acceptable quality joints including de-beading.

Equipment required:



Generator of suitable size to power butt fusion machine - refer to manufacturers' literature for power requirements



Butt fusion machine of suitable size and liners (if required)



Pipe support rollers



Welding tent/shelter and ground sheet



External / Internal de-beading tool



Pipe end covers



Pipe cutter



Indelible marker pen for marking beads

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THE GOOD GUIDE TO
BUTT FUSION JOINTING



Principles
The pipes to be joined are held in clamps which grip and re-round the pipe. Clamps are hydraulically operated by hand pumps or electrically driven pumps. Clamp movement is controlled by the operator in the case of manual / semi-automatic machines, in automatic machines the computer controls clamp movement during the automatic cycle.

Pipe ends are prepared by planing with an electrical driven trimmer, then heated using an electrically powered non-stick heater plate. When molten, the pipe ends are brought together and held under pressure until cooled.

Pipe Selection ID
Check that both pipes to be joined are of the same size, SDR (standard dimension ratio) and material. Only compatible sizes and material should be joined together. If in doubt, seek advice from the pipe manufacturer. Pipe information is marked on the pipe at approximately one metre intervals.

Siting Equipment
Wherever possible, the butt fusion machine should be placed on a suitable clean, dry base board or ground sheet inside a tent / shelter to minimise contamination and wind chill.



Arrange the machine so there is enough room to get around the machine to carry out the work, route the cables and hoses so they don't cause a trip hazard.

Pre-Jointing Checks
- Use only equipment which has been regularly serviced and is in good condition.
- Ensure the correct jointing parameters for the machine and pipe being welded are known and understood.
- Ensure that the generator is maintained and serviced to the manufacturers requirements and has sufficient fuel to carry out the work to be done.
- Ensure that the generator has been suitably earthed to the generator manufacturers requirements.
- Check that the heater plate coating is not damaged and is clean – wash only when cold with clean water and dry with a clean lint-free cloth or paper towel.
- Check that the trimmer is clean and that the blades are not damaged and are in good condition.
- Ensure clamp liners and securing screws of the correct size are available for the size of pipe to be jointed. Liners must be clean and sit fully in the pipe clamps thus ensuring correct alignment.
- Check that the heater plate is at the correct temperature. Ensure correct parameters are selected for pipe to be joined.

Dummy Joint
To make dummy welds follow the jointing procedures or abort the cycle after the full soak time has elapsed then open the machine and remove the heater. The first print out should read 'Error 20: Abort during Fusion.' Alternatively, allow the joint to complete and cut out the joint(s) once cooled. Some welding standards will force one or two dummy welds.

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MAKING THE JOINT

Automatic Welding Procedure
The welding procedure detailed below has been summarised from the manufacturers comprehensive operating instructions and is only intended as a guide. Always familiarise yourself fully with the manufacturers operating instructions, safety operation and controls before commencing work.

Stop / Reset Button
In an emergency press the Emergency Stop Button on the back of the controller, when pressed it will immediately cut the generator supply to the machine.

Dummy welds should be made (to remove any fine particles from the heater plate) before every welding session, after changing from one pipe size to another and also if the heater has been allowed to cool.

Connection and Pipe Selection

1. Connect heater, chassis and trimmer cables to the computer.
2. Ensure the hydraulic connections are clean and then connect to the controller.
3. Start the generator and then connect the controller to the generator.
4. Select the pipe size and type to be jointed.
5. Confirm data.

Pipe Preparation

1. Load and secure trimmer into machine using the fast clamp system. Push down knobs and turn clockwise to lock.



2. Place pipes to be joined on the pipe support roller to reduce drag.
3. Cover pipe ends that are to not being jointed to prevent draughts.
4. Clean pipe ends inside and out (approx. 300mm) then load and position pipes lightly against trimmer discs with writing on pipe uppermost.
5. Position toggle lever into place and use adjustment knob (clockwise to tighten and anti-clockwise to loosen). Snap shut the fast clamps around the pipe.



6. Press ‘Green’ button on controller. Trimming will continue up to its programmed stop, but as soon as a running swarf strip of full pipe thickness is visible, the ‘feathering off’ phase can be initiated by pressing the ‘Green’ button again. Without operator intervention, the machine will automatically enter the ‘feathering off’ phase of the trimmer cycle.



7. When trimming cycle is completed and carriage has opened, remove trimmer and swarf. Pull swarf through the bottom of the frame. Be careful not to touch pipe ends.

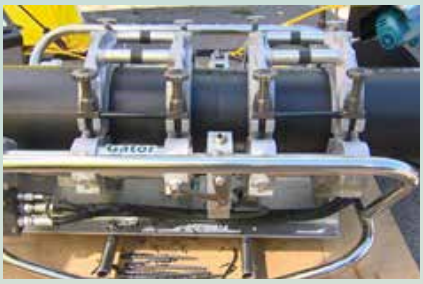


DO NOT PULL SWARF UP THROUGH TRIMMED PIPE ENDS, AS THIS MAY CONTAMINATE THE PIPE FACES

8. Visually check pipe ends for completeness of trimming.



9. Press ‘Green’ button to close carriage then visually check pipe alignment, adjust clamps removing ONLY one toggle clamp at any one time to adjust alignment if required then re-check and re-trim if necessary.



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THE GOOD GUIDE TO
BUTT FUSION JOINTING

MAKING THE WELD

1. After the 'check' and prior to the 'join' phase secure the heater to the chassis. Push down knob and turn clockwise to lock.
2. Press 'Green' button on computer, this checks heater temperature, if the heater is correct temperature then the chassis will open. The chassis will not open until the correct temperature has been achieved.
3. Insert the heater into the chassis, push home until fully locked.



4. Press 'Green' button again. Fusion cycle will be carried out automatically. Display will give 'relevant' information at all times.
5. When controller display shows 'JOINT COMPLETE', press 'Green' button.



6. Remove the heater from the chassis, place in heater / trimmer stand.
7. Allow pipe to cool properly (in accordance with specification) before releasing from the clamps.
8. Unclamp pipe and remove carefully.

Quality Checks

- Check visually for excessive irregularity in bead formation and pipe mismatch.
- Externally de-bead the weld.
- Visually check the underside of the removed bead for contamination, then bend back at several positions and inspect for slit defects.
- Check for cleanliness around joint area.
- Print out or download the joint data from the controller using Data Printer, USB stick or MiniTran. Check the results and verify the details for correct compliance.

BUTT FUSION DO'S

- In cold temperatures the chassis should be opened and closed manually approximately 10 times in quick succession following the automatic warm up routine.
- Always ensure that the equipment is calibrated and properly maintained.
- Always weld inside a shelter on a suitable baseboard or ground sheet.
- Where possible, site the equipment on clear level ground.
- Always ensure pipes are aligned correctly and supported on pipe rollers to minimise drag.
- Cover open pipe ends to eliminate wind chill to the heater and joint interface.
- Clean pipe surfaces (inside and out), pipe ends and clamps before inserting pipe into the machine.
- Position pipes into the clamps with the pipe marking uppermost and aligned.
- Wash the heater plate when cold before every welding session and perform dummy welds when hot to remove fine particles from the heater surface. On pipe sizes above 180mm, two dummy welds should be made at the start of each session.
- Perform dummy welds after changing from one pipe size to another, also if the heater plate has been allowed to cool.
- Clean trimmer discs and blades before use.
- Ensure that when trimming, a continuous ribbon of material, of complete pipe wall thickness is produced from both pipe ends before stopping the trimmer and advancing to the feathering operation.
- Always wait for the trimmer to stop rotating before removing it from the machine.
- Replace the trimmer in the stand provided.
- Remove shavings from pipe ends and chassis. Pull swarf through the bottom of the frame be careful not to touch pipe ends.
- Check visually that both pipe ends are completely trimmed.
- Always check pipes for alignment ensuring no gaps exist between the two pipe ends around the entire circumference of the abutted pipes.
- On completion of satisfactory alignment checks, proceed with the welding cycle without delay.
- Number/code the joint and bead using an indelible marker.
- After FULL cooling time has elapsed, remove either external or internal bead and carry out quality checks.

BUTT FUSION DONT'S

- Do not attempt to open the computer enclosure – there are no user serviceable parts inside.
- Do not use damaged equipment.
- Do not attempt to weld pipes of different material, diameter or SDR.
- Do not leave shavings inside pipe or on the chassis.
- Do not introduce dirt onto trimmed pipe ends whilst removing swarf.
- Do not touch trimmed pipe or fitting ends.
- Do not remove pipes from the machine before the complete cooling time has elapsed.
- Do not cut corners in any part of the welding cycle.
- Do not attempt to install pipe until fully cooled.

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SAFETY NOTES

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

- Do not touch heater plate when hot.
- 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.

- Avoid contact with the trimmer blades when cleaning discs and especially when in motion. These can be sharp and cause cuts to fingers etc.
- Do not attempt to operate the trimming device whilst out of the machine chassis or attempt to by-pass the safety switch.
- Keep fingers and hands away from the pipe ends, chassis, trimmers and heaters whilst operating the machine.
- Do not attempt to lift heavy equipment or long lengths of pipe without assistance or mechanical aid.
- An audible alarm is fitted to automatic butt fusion machines to warn of impending movement.
- Remove all traces of polymer from the heater face(s) to prevent the production of fumes from degraded residues (at normal jointing temperatures the production of fumes will be slight, however these will be more pronounced at higher temperatures). Advice regarding Health & Safety in reference to the pipe material can be obtained from the pipe supplier.
- Normal precautions should be observed when handling electrical equipment and for safety reasons, all 110V portable generator sets should be “Centre Tapped” for site use 55V-0V-55V volts.
- To afford protection against unforeseen circumstances occurring during jointing it is advisable to wear protective workwear such as gloves, safety glasses and safety boots.



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Welda 2 | Manual Butt Fusion

Features

Manual machines are part of the hydraulic range of butt fusion machines.
They are suitable for welding polyethylene pipes for gas and water pipeline projects.

- Pipe size range 63-400mm Ø
- Fast clamping
- Lightweight compact machine
- Toolless repositionable 3rd clamp
- Heater pull off mechanism
- Large easy to read pressure gauge
- 150 bar operating system
- Trimmer safety switch
- Electronically regulated heater temperature
- Replaceable heater surface plates



Code	Welda Size	Description	Range	Weight	Min Generator Output	Delivery Code	Gross Price
			mm	Kg	KVA		£ GBP
W180220MFE-2	Welda 2 180	220V Blue 3 pin plug	63-180	99.5	5	C	POA
W180220MFG-2	Welda 2 180	220V Black 2 pin plug	63-180	99.5	5	C	POA
W250220MFE-2	Welda 2 250	220V Blue 3 pin plug	63-250	111	5	C	POA
W250220MFG-2	Welda 2 250	220V Black 2 pin plug	63-250	111	5	C	POA
W315220MFE-2	Welda 2 315	220V Blue 3 pin plug	90-315	138.7	7	C	POA
W315220MFE-2DL	Welda 2 315	220V Blue 3 pin plug with Datalogger	90-315	138.7	7	C	POA
W315220MFG-2	Welda 2 315	220V Black 2 pin plug	90-315	138.7	7	C	POA
W400220MFE-2	Welda 2 400	220V Blue 3 pin plug	200-400	170	8	C	POA
W400220MFG-2	Welda 2 400	220V Black 2 pin plug	200-400	170	8	C	POA

Welda Liners

Features

- Butt Fusion liners are designed to maximise the size range of the machine.
- All sizes are available in cast aluminium
- Sizes up to 180mm diameter are also available in an engineering plastic called Noryl.
  Noryl liners are extremely tough and very light.



Aluminium code	Plastic code	Size	To fit machine sizes	Delivery Code	Gross Price Aluminium	Gross Price Plastic
		mm			£ GBP	£ GBP
BFL400355	N/A	400x355	400	B	2,901.02	N/A
BFL400315	N/A	400x315	400	B	1,799.96	N/A
BFL315280	N/A	315x280	400, 315	C	1,353.07	N/A
BFL315250	N/A	315x250	400, 315	B	1,227.43	N/A
BFL315200	N/A	315x200	400,315	C	2,721.58	N/A
BFL250225	N/A	250x225	400,315,250	C	1,024.79	N/A
BFL250200	N/A	250x200	400,315,250	B	1,038.85	N/A
BFL250180	BFL250180PT	250x180	400,315,250	B	1,161.74	548.10
BFL180160	BFL180160PT	180x160	315,250,180	C	1,617.19	217.43
BFL180140	BFL180140PT	180x140	315,250,180	C	1,417.67	332.99
BFL180125	BFL180125PT	180x125	315,250,180	B	1,334.36	260.93
BFL180110	BFL180110PT	180x110	315,250,180	B	1,553.10	304.28
BFL18090	BFL18090PT	180x90	315,250,180	B	1,337.12	292.18
BFL18075	BFL18075PT	180x75	250,180	C	1,265.34	370.98
BFL18063	BFL18063PT	180x63	250,180	C	1,149.49	254.55

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Welda 500 I Manual Butt Fusion

Features

The Welda 500 is a powerful butt fusion machine packed with quality and safety features enabling a single operator to complete 500mm butt fusion joints with minimum effort.

The fast and controlled ejection of the heater plate and trimmer ensures efficiency and higher quality joints while promoting safe working; and when used with a pipe lifter, minimises manual lifting.

- Pipe size range 250-500mm Ø
- Swing in/out heater and trimmer
- One person quick and safe operation
- Single unit: No heater and trimmer stands
- Repositionable 3rd clamp
- Heater pull off mechanism
- Large easy to read pressure gauge
- Trimmer safety switch
- Electronically regulated heater temperature
- Replaceable heater surface plates
- Non-drip quick release hydraulic connections



Code	Welda Size	Description	Range	Weight	Min Generator Output	Delivery Code	Gross Price
			mm	Kg	KVA		£ GBP
W500220MFE	Welda 500	220V Blue 3 pin plug	250-500	420	9	C	POA
W500220HFMFE	Welda 500	220V Blue 3 pin plug - High Force	250-500	420	9	C	POA

Welda 500 Accessories

Features

The Welda 500 is available with the following accessories:

- Reducing shells, trim set bar, stub flange adaptor
- Compact trolley and winch kit

Code	Size	To fit machine sizes	Delivery Code	Gross Price
	mm			£ GBP
BFL500450X50	500x450	Welda 500	C	POA
BFL500400X50	500x400	Welda 500	C	POA
BFL400315X50	400x315	Welda 500	C	POA
BFL400355X50	400x355	Welda 500	C	POA

Code	Description	Delivery Code	Gross Price
			£ GBP
FES-13408	Stub Flange Adaptor	C	POA
FES-13512	Compact Trolley	C	POA
FES-13496	Trim Setting Bar	C	POA
FES-23136	Winch for Trolley	C	POA

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External Debeader

Features

Used to remove external beads after butt fusion joint completion. External bead removal plays a key role in establishing joint integrity and is necessary when undertaking slip-lining or swage lining projects.

- Easily adjusts to pipe diameter, allowing the blade to cut under the bead without damaging the surface of the pipe
- High quality heat treated ground cutting blades
- Replacement blades available
- Comes complete with storage box



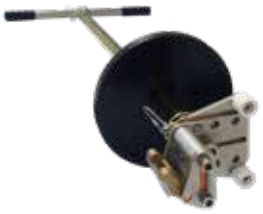
Code	Range	Weight	Spare blade code	Delivery Code	Gross Price
	mm	Kg			£ GBP
EXTDBS	63mm - 125mm	TBA	FES-01-07-521	C	POA
EXTDB	90mm - 400mm	3	EXTDBBLADE	B	1,524.10
EXTDBL	355mm - 630mm	4	EXTDBLBLADE	C	4,731.21
EXTDBXL	400mm - 900mm	5	EXTDBXLBLADE	C	5,052.24
EWBRT60	710mm - 1200mm Bead Width up to 60mm	TBA	TBA	C	POA
EWBRT80	Bead Width up to 80mm	TBA	TBA	C	POA
EWBRT100	Bead Width up to 100mm	TBA	TBA	C	POA

Internal Debeader

Features

The internal debeader is a manual kit for the simple and effective removal of internal beads formed during the butt fusion process. The internal debeader can debead polyethylene pipes in the size range 110mm - 400mm (450mm with adaptor).

- Rods can be quickly clipped together to debead pipe lengths up to 13m
- Bead retained in head after removal process for later inspection/archiving
- Robust build quality
- Simple to assemble
- Facilitates quality control procedures from visual bead inspection and bend back test
- Rods come in robust canvas bag
- Heads and ancillary components are housed in a steel box with carry handles



Code	Description	Weight	Delivery Code	Gross Price
		Kg		£ GBP
IBRTKIT	Internal bead removing tool 110 - 400mm	70	C	12,945.96
FES-31681	Spare blade for head 1 and 2	N/A	C	214.46
FES-32187	Spare blade for head 3 and 4	N/A	B	204.96

IBRTKIT Contains NOTE: These items are also available as spares	
Code	**Description**
FES-11769	1 x storage box
FES-11560	1 x drive handle
FES-21459	1 x no. 1 size head
FES-21457	1 x no. 2 size head
FES-21453	1 x no. 3 size head
FES-21451	1 x no. 4 size head
N/A	2 x Allen keys
N/A	1 x set operating instructions
FES-32740	3 x size 1 rod supports
FES-31754	3 x size 2 rod supports
FES-21803	3 x size 3 rod supports
FES-21310	3 x size 4 rod supports
FES-21859	3 x size 4b rod supports
FES-69046	1 x rod bag
FES-21560	6 x 2 meter rods
FES-21618	1 x 1 meter rod

Selection Chart						
SDR	44	32	26	17	11	7.3
O/D (mm)	Head Size					
110				1(B)	1(A)	
125				1(D)	1(C)	1(A)
140				1(A)	1(D)	1(C)
160	2(B)	2(B)	2(B)	2(B)	2(B)	1(D)
180	3(A)	2(C)	2(C)	2(C)	2(B)	2(B)
200	3(A)	3(A)	3(A)	3(A)	2(C)	2(B)
225	3(B)	3(B)	3(B)	3(B)	3(A)	2(C)
250	3(C)	3(C)	3(C)	3(C)	3(B)	3(A)
280	4(B)	4(B)	4(B)	3(C)	3(C)	3(B)
315	4(C)	4(C)	4(C)	4(B)	4(A)	3(C)
355	4(D)	4(D)	4(D)	4(C)	4(C)	4(A)
400				4(D)	4(C)	4(B)
450				4(D)	4(D)	

Note: Each debeader head size has multiple settings. These are referred to in the table as A, B, C or D. To select the correct head size you will need to know the outer diameter of the pipe you wish to debead (see first column) and its SDR.

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Pipe Lifter 400

Features

The Pipe Lifter 400 is a simple, robust and effective device which assists with the ejection and movement of polyethylene pipes during the welding process.

- Simple lever mechanism which improves productivity
- Heavy duty construction
- Folds flat for easy storage and transportation
- Works in conjunction with pipe support rollers
- Compatible with all butt fusion machines from 180mm to 400mm



Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	Kg		£ GBP
PIPELIFT400	Pipe Lifter 400	up to 400mm	22	C	2,565.78

Pipe Support Rollers

Features

A range of adjustable pipe support rollers, used to assist the butt fusion welding process

- 3 adjustable pipe rollers covering the range 63mm to 630mm
- Rigid construction, with all models supplied as a pair



315 Adjustable roller



400 Adjustable roller



630 Adjustable roller

Code	Description	Range	Weight per roller	Delivery Code	Gross Price
		mm	Kg		£ GBP
PSROLL315	315 adjustable roller (pair)	63-315mm	5	C	944.97
PSROLL400	400 adjustable roller (pair)	63-400mm	18	C	1,951.48
PSROLL630	630 adjustable roller (pair)	315-630mm	52	C	6,925.56

Printer Paper Roll

Features

Paper roll to be used with portable printer for Gator controller.

Printer and lead available upon request.



Paper Roll



Gator controller with printer in operation

Code	Description	Delivery Code	Gross Price
			£ GBP
FES-705799	Paper roll	C	9.21

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SBOX Max | Electrofusion Welding Machine



The SBOX Max Electrofusion welding machine gives you functionality, reliability and is capable of welding electrofusion fittings for gas, water and other pressure pipe applications up to 630mm.

Features

- Fitting size range 20mm to 630mm diameter.
- Fusamatic, barcode and manual entry for input of Fusion data.
- Screen protected by hard-wearing scratch-resistant polycarbonate.
- Pin adaptors included as standard. Welds both 4mm and 4.7mm pin fittings.
- Comes with hard protective carry case; designed to withstand knocks and scratches.
- Multiple language options available.
- Graphics display with adjustable contrast and a wide viewing angle.
- Internal 'Black Box' SD card holds up to 100,000 joint records: a lifetime's joints safely stored.

SBOX Max | Order Codes

Code	Description	Plug Type	Bar Code Scanner	Delivery Code	Gross Price £ GBP
SBOXMAXBCG	SBOX Max 230V Electrofusion Welder with barcode scanner - black 2 pin plug			B	8,769.96
SBOXMAXBCE	SBOX Max 230V Electrofusion Welder with barcode scanner - blue 3 pin plug			B	8,752.20
SBOXMAXG	SBOX Max 230V Electrofusion Welder - black 2 pin plug		X	C	8,072.01
SBOXMAXE	SBOX Max 230V Electrofusion Welder - blue 3 pin plug		X	C	8,120.65

Note - all 220V/230V automatic electrofusion control boxes come with carry case and 4.0mm / 4.7mm lead end adaptors as standard.

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SBOX Max | Features



Only 18kg in tough protective case



Display your logo on screen



Welds fittings between 20mm and 630mm



Cable tidy



USB data download



Multiple languages



Welds 4mm and 4.7mm pin fittings



Mobile Control Available



Barcode, manual and Fusamatic fittings

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SBOX Max | Specification



SBOX-Max / SBOX-MaxBC			
Supply	**Minimum**	**Typical**	**Maximum**
Input Voltage	195v	230v	265v
Input Frequency	40Hz	50Hz	60Hz
Generator Rating	4.2KVA	-	6KVA

SBOX-Max / SBOX-MaxBC			
Output	**Minimum**	**Typical**	**Maximum**
Output 40v Auto Fitting	39.0v	39.5v	40.0v
Output Voltage Barcode and Manual	10.0v	-	48.0v
Output Current	2A	-	60A
60% Duty Cycle output ISO12176-2		60A	
Peak Current <60seconds		80A	

Operating modes	**SBOX-Max**	**SBOX-MaxBC**
Fusamatic	20 - 900 Seconds	
Manual	10 - 3500 Seconds	
Barcode	NO	YES

Memory	**SBOX-Max / SBOX-MaxBC**
Internal Memory Capacity	Up to 2,000 records
Backup to SD Card	Up to 100,000 records
Via ControlPoint	Unlimited

Data output	**SBOX-Max / SBOX-MaxBC**
USB memory device	YES - text file/weld analyser
Bluetooth	Upon request

SBOX-Max / SBOX-MaxBC		
Environment	**Minimum**	**Maximum**
Operating Temperature	-10°C	+40°C
Storage Temperature	-15°C	+55°C
Environmental Protection	IP54	

Weights	**SBOX-Max**	**SBOX-MaxBC**
Box with leads	16.8Kg	17.0Kg

Cable length	**SBOX-Max / SBOX-MaxBC**
Input Cable	3m
Output Cable	2.5m

Dimensions	**Width**	**Depth**	**Height**
(with cables coiled in cable storage)	30cm	29cm	43cm

Standards	**SBOX-Max**	**SBOX-MaxBC**
ISO12176-2 Electrofusion	YES	
ISO12176-2 Classification	P23US2FVKADX	
ISO12176-3 Operator Badge	-	YES
ISO12176-4 Traceability Coding	-	YES

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SBOX Lite 220v | Electrofusion Welding Machine

The SBOX-Lite is a lightweight and versatile electrofusion control box which is capable of welding any brand of electrofusion fittings for gas, water and other pressure pipe applications.

Features

- Fitting size range 20mm - 125mm (140mm and 160mm couplers can be welded by letting the machine cool down between operations).
- The 220V SBOX-Lite can be used in 2 different modes -
  1. By barcode reading (8 - 48 volts)
  2. Manual entry of fusion voltage and time
- Lightweight - only 8kg
- Joint data memory of 350 welds - downloadable to USB memory stick
- Fusion data transfer CD and USB cable adaptor included
- Ambient temperature compensation is applied when required
- 4.0 - 4.7mm diameter universal collet adaptor
- Multi-lingual selectable display
- Manual scraper included
- Transport bag included



Universal lead ends

I/P Plug

SBOX Lite 220v | Order Codes

Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	kg		£ GBP
SBOXLITE220BC	SBOX Lite 220 volts	20-125mm	8	A	3,105.76

SBOX Lite 220v | Specification

Diameter range (OD)	20 - 125mm *
Weldable materials	PE / PP/ PP-R
Dimensions (W x D x H)	200 x 250 x 210mm
Weight	8 kg
Power supply (V)	230V ±15%
Frequency	50 - 60 Hz
Maximum absorbed power	2000W
Nominal absorbed current	8A
Peak output current	60 A
Welding nominal current Duty cycle 60% (ISO 12176-2)	23A

Working temperature	- 10 °C to + 40 °C
Welding voltage (V)	8V-48V
Protection degree	IP 54
Barcode scanner	Yes
Pin connector sizes	4mm and 4.7mm universal
Memory capacity	350 joints
Ambient temperature compensation	Yes

* OD 140mm and 160mm Fusamatic couplers can also be welded but with precaution, wait for the machine to cool off completely after each welding cycle.

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Uniprep Scraper

Specification

Uniprep scrapers are high productivity tools, used for preparing pipe ends prior to electrofusion. Suitable for all pipe SDR's and pipe with ovality.

- Fast scraping action
- Heat treated ground steel cutting blade
- Accurately controlled depth of cut
- Quick release after pipe scraping using post locking screw





Code	Description	Weight	Spare Blade Code	Delivery Code	Gross Price
		Kg			£ GBP
UNIPREP250	Uniprep scraper 63mm - 250mm	3	UNIPREP22	B	2,973.44
UNIPREP400	Uniprep scraper 90mm - 400mm	3.5	UNIPREP22	B	3,099.81
UNIPREP500	Uniprep scraper 125mm - 500mm	4	UNIPREP22	C	3,377.34
UNIPREP710	Uniprep scraper 450mm - 710mm	5	UNIPREP22	C	5,505.58

Universal Scraper

Specification

The universal scraper provides a convenient means of preparing pipe ends prior to electrofusion jointing. It can operate on all pipe diameters and commonly used SDR sizes from 63mm to 250mm inclusive, and can be used on coiled pipe and pipes with ovality.

- Correct length of scrape is pre-set
- Fixed, serrated blade driven around the pipe using ratchet handle
- Internal roller action holds the cutting blade against the pipe
- Carry case, spare blade and cleaning brush





Code	Description	Weight	Spare Blade Code	Delivery Code	Gross Price
		Kg			£ GBP
UNISCRP	Universal scraper 63mm-250mm	4.5	370300	B	2,917.47

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Multiscrape Kit

Features

Multi Scrape is a versatile pipe scraper designed specifically with coiled pipe in mind. Mandrels support the pipe ends and a spring loaded blade, ensures that the optimum depth of cut is achieved.

- For pipe sizes 20-63mm
- Comes with choice of solid or expandable mandrels
- Hardened steel blade design, indexable with two cutting edges
- Blade design ensures a consistent depth of cut
- Sprung loaded arm facilitates use on coiled and oval pipe
- Mandrels aid pipe re-rounding, cover a variety of pipe sizes and SDR's

Spare parts available upon request





Expanding mandrels



Solid mandrels

Code	Description	Delivery Code	Gross Price £ GBP
MULTISCRAPEKIT	Tool including complete set of solid mandrels and spare blade in case	B	1,781.11
MULTISCRKITEM	Tool including 20mm and 25mm solid mandrels and small, medium and large expanding mandrels in case	C	1,204.95
MULTISCRAPE	Tool only	C	468.06

Diameter range	SDR Range	Case dimensions	Weight complete kit Kg
20, 25, 32, 40, 50, 55 and 63mm	11 and 17	275 x 225 x 90mm	2.5

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Multi Clamp

Features

The multi-clamp kit has been specifically designed for easier alignment and restraint of a whole range of electrofusion fittings and suits narrow trenching techniques.

- Facilitates full rerounding and restraint during electrofusion
- Top clamp hinges facilitates use in narrow trenches
- The dovetail assembly allows complete rotation through 360^0 to suit any pipe and fitting configuration (large diameter tees require extra base, ring and liners)
- Extruded lightweight base



Basic			
Code	Weight Kg	Delivery Code	Gross Price £ GBP
MCKIT180B	9.5	C	1,829.10

Contents

- 1 x carrying bag
- 2 x basic 180mm rings + slide blocks
- 4 x 180mm x 125mm liner segments
- 4 x 125mm x 90mm liner segments
- 4 x 125mm x 63mm liner segments
- 1 x 600mm base
- 1 x allen key

Universal			
Code	Weight Kg	Delivery Code	Gross Price £ GBP
MCKIT180	13.5	B	2,195.59

Contents

- 1 x plastic container
- 2 x basic 180mm rings + slide blocks
- 4 x 180mm x 125mm liner segments
- 4 x 125mm x 90mm liner segments
- 4 x 125mm x 63mm liner segments
- 2 x 460mm bases
- 1 x allen key
- 1 x spanner
- 1 x 'T' connector

Multi Clamp I Optional Extras and Spare Parts

Code	Description	Delivery Code	Gross Price £ GBP
FES-12390	180mm ring	C	718.40
FES-132000	125 - 180mm base	C	94.69
FES-148500	180mm extended base	C	132.02
FES-22541	180mm x 160mm liner segments	B	47.05
FES-22540	180mm x 140mm liner segments	C	65.18
FES-21607	180mm x 125mm liner segments	C	41.62
FES-31784	160mm x 110mm liner segments	B	34.58

Code	Description	Delivery Code	Gross Price £ GBP
FES-33812	160mm x 75mm liner segments	C	41.62
FES-33354	125mm x 90mm liner segments	C	18.71
FES-33356	125 x 63mm liner segments	C	12.18
FES-33358	T-connector	C	107.08



Couplers and reducers



90° Electrofusion Elbows
(1 base / 2 Rings)



45° Electrofusion Elbows
(1 base / 2 Rings)



E/F tees and reducing tees
(3 bases / 3 rings / 1 'T' connector)



Electrofusion of Seamless Bends
(2 bases / 4 rings)

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Mini Clamp

Features

Mini clamps are designed to restrain and align pipe and fittings for service connections during the electrofusion process. The mini clamp is suitable for pipe sizes 20, 25 and 32mm.

- Interchangeable arms for each pipe size
- Reducers, couplers and tapping tee outlets can be accommodated
- Robust construction with cast aluminium body
- Promotes re-rounding and restraint during electrofusion



Interchangeable arms

Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
MINICLAMP	20, 25 and 32mm mini clamp	1	C	273.47

Versaclamp

Features

A range of clamps that can be used on 90° and 45° elbows and straight connections. Available for use on 20, 25 and 32mm diameter pipe.

- Pocket size and ultra lightweight design
- Manufactured from a tough engineering plastic (Noryl)
- Works in tight spaces with Flextee and Multiseal electrofusion tapping tees



Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
VERSACLAMP20	20mm multi angled clamp	0.2	C	POA
VERSACLAMP25	25mm multi angled clamp	0.2	C	124.92
VERSACLAMP32	32mm multi angled clamp	0.2	C	98.96



Straight Connections



90° Elbows



45° Elbows

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Elbowclamp

Features

A simple and effective hand tool for clamping either 20, 25 or 32mm service pipe when fusing 90° elbows giving stress free joints.

- Pipe range 20-32mm
- Compact lightweight design
- Manufactured from a tough engineering plastic (Noryl)



Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
ELBOWCLAMP20	Elbow clamp 20mm	0.1	C	128.83
ELBOWCLAMP25	Elbow clamp 25mm	0.1	C	154.72
ELBOWCLAMP32	Elbow clamp 32mm	0.1	C	147.97



90° Elbow clamp - 20mm pipe



90° Elbow clamp - 32mm pipe



90° Elbow clamp - 25mm pipe

Mini and Maxi Posi Clamp

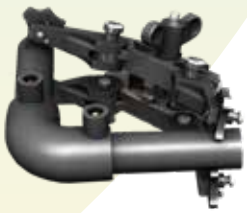
Features

Two lightweight versatile electrofusion clamps working in the range 20 - 40mm and 32 - 63mm.

- Can be used for couplers, reducers, end caps, equal tees, reducing tees and 45° and 90° elbows.
- Can be used on multiseal tapping tees where couplers are connected to the outlet
- Aligns, and secures the pipe to prevent movement of fittings during fusion and cooling
- Made from a tough engineering plastic (Noryl)
- All nuts and adjustments are fully captive and therefore cannot be lost



Code	Description	Range	Weight Kg	Delivery Code	Gross Price £ GBP
MINIPOSI	Couplers, reducers, end caps, equal and reducing tees, 45° and 90° elbows	20mm, 25mm, 32mm and 40mm	0.5	C	452.69
MAXIPOSI	Couplers, reducers, end caps, equal and reducing tees, 45° and 90° elbows	32mm, 40mm, 50mm and 63mm	1.0	B	723.77



Maxi Posi clamp 90° Elbow



Maxi Posi clamp on Multiseal tapping tee



Maxi Posi clamp coupler

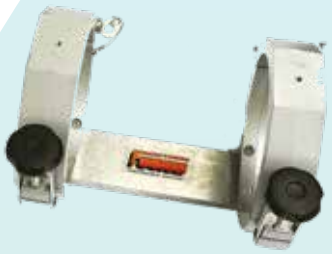
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Alignment Clamp

Features

Heavy duty alignment clamps, used for jointing 250mm electrofusion couplers.

- Hinged with pins for ease of pipe positioning in trench - facilitates use in narrow trenches
- Offers full rerounding and restraint of pipe and fitting during welding
- Fixed clamp position
- Robust construction
- Liners available for smaller sizes



Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
FES-01-15-014	250mm alignment clamp	14	C	2,894.13

Top Load Clamp

Features

A lightweight universal strap clamp for use on top loaded saddles.

- Ideal for use in confined spaces





Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
TLOADCLAMPA	63mm - 500mm top load clamp	1	B	554.63



Quality Check

When the indicator at the top of the clamp is flush this shows that the correct clamping force is applied to the fitting.

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Strap Clamp 200 Straight

Features

Alignment clamps for use on 40mm - 200mm pipe. Used on couplers only.

- Lightweight construction
- Fast acting 'tug and tension' straps
- Works above, below or alongside the joint
- Compact design
- No liners required



Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC200-2-S	Straight runner bar with 2 clamps	40 - 200	2.5	C	944.53
SC200-2-S-4	Straight runner bar with 4 clamps	40 - 200	4.6	C	1,734.93

Note: to use the strap clamp 200 straight to clamp tees, a T-Adaptor is required.

Strap Clamp 200 Knuckle

Features

Alignment clamps for use on 40mm - 200mm pipe. A centrally located adjustable knuckle allows the SC200-2-K to be used for 22.5°, 45° and 90° elbows, reducers and couplers.

- Lightweight construction
- Fast acting 'tug and tension' straps
- Works above, below or alongside the joint
- Compact design
- No liners required



Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC200-2-K	Knuckle bar with 2 clamps	40 - 200	2.7	B	1,339.08
SC200-2-K-4	Knuckle bar with 4 clamps	40 - 200	4.6	B	1,988.89

Note: to use the strap clamp 200 knuckle to clamp tees, a T-Adaptor is required.

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Strap Clamp Titan 200

Features

Alignment clamp for use on 40mm - 200mm pipe. Used on couplers only. The Titan clamp pulls the pipe into position with minimal effort using a rack and pinion system.

- Ratchet handle included
- Lightweight construction
- Fast acting 'tug and tension' straps
- Works above, below or alongside the joint
- Compact design
- No liners required



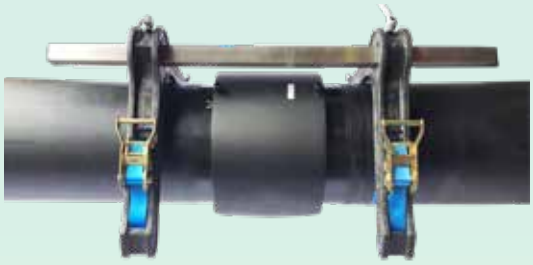
Code	Description	Range	Weight (kg)	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC200T	Straight ratchet runner bar with 4 clamps	40 - 200	6.5	C	2,634.65

Strap Clamp 500 Straight

Features

Fast set up alignment clamp, for use on 160mm - 500mm pipe. Used on couplers only.

- Lightweight robust construction
- Fast acting 'tug and tension' straps
- Works above, below or alongside the joint
- Compact design
- No liners required



Code	Description	Range	Weight (kg)	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC500	Plain runner bar with 2 clamps	160mm - 500mm	8	B	1,537.65
FES-12799	V block clamp assembly	160mm - 500mm	1.5	B	781.33

Note: to use the strap clamp 500 straight to clamp tees, a T-Adaptor is required.

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Strap Clamp Titan 500

Features

Alignment clamp for use on 160mm - 500mm pipe. Used on couplers only.
The Titan clamp is capable of pulling 12m lengths of pipe into position, using a rack and pinion system.

- Ratchet handle included
- Fast acting 'tug and tension' straps
- Works above, below or alongside the joint
- Compact design
- No liners required



Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC500T	Straight ratchet runner bar with 4 clamps	160-500	20	C	4,922.68

T-Adaptor

Features

The T-adaptor is an add-on tool enabling strap clamps to be used for clamping tees.
To use the T-Adaptor a further V-Block clamp needs to be purchased.

- The T-adaptor can either be used on the SC200 or SC500 range

Strap clamp with T-Adaptor fixed in place





T-Adaptor

Code	Description	Range	Weight	Delivery Code	Gross Price
		mm	Kg		£ GBP
SC200ADT	T-Adaptor for strap clamp 200	40 - 200	0.3	C	239.83
SC500ADT	T-Adaptor for strap clamp 500	160 - 500	3.4	C	659.61
FES-34989	V block clamp assembly for 200 T-Adaptor	40 - 200	0.6	C	338.43
FES-12799	V block clamp assembly for 500 T-Adaptor	160 - 500	1.5	B	781.33

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Hydraulic Pipe Clamp

Features

Hydraulically powered re-rounding and positioning clamps for supporting and restraining large diameter pipes and couplers throughout the electrofusion process.

- Made from fabricated steel construction
- Hydraulic power provided by 2 hand pumps
- Excellent re rounding capability
- 3 segment pipe clamps, disassemble for ease of transportation
- Available with straight base only
- Can be used as alignment kit
- Steel reducing liners available on request
- Single clamp available on request



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
HRR400KIT	Hydraulic rerounding clamp 400mm	50	C	POA
HRR500KIT	Hydraulic rerounding clamp 500mm	68	C	POA
HRR630KIT	Hydraulic rerounding clamp 630mm	79	C	POA
HRR710KIT	Hydraulic rerounding clamp 710mm	89	C	POA
HRR800KIT	Hydraulic rerounding clamp 800mm	125	C	POA
HRR900KIT	Hydraulic rerounding clamp 900mm	155	C	POA

Note: Each kit is supplied with two clamps, two hand pumps, two hydraulic cylinders, and two alignment bars.

Rerounding I Post Squeeze Off Clamp

Features

Designed for re rounding pipes after squeeze off has been applied.

- Available in pipe size range 50 - 250mm
- Rerounds the pipe effectively covering a large surface area



Code	Range	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
RRC50	50mm	2.9	C	POA
RRC63	63mm	3	C	172.99
RRC75	75mm	3.5	C	181.47
RRC90	90mm	3.5	C	192.42
RRC110	110mm	5.8	C	233.02
RRC125	125mm	5.5	C	249.62
RRC140	140mm	5.5	C	272.02
RRC160	160mm	7.5	C	321.83
RRC180	180mm	6.8	C	326.83
RRC200	200mm	9.3	C	437.90
RRC225	225mm	11.5	C	POA
RRC250	250mm	12	C	507.57

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Rerounding Tool

Features

A range of re rounding tools for use on polyethylene coiled or oval pipe prior to electrofusion.

- Available in pipe size range 20 - 250mm
- Quick and simple to use



Rerounding tool
20mm - 32mm



Rerounding tool
40mm - 90mm



Rerounding tool
110mm - 250mm

Code	Range	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
RRT20	20mm	0.5	C	327.34
RRT25	25mm	0.5	C	359.67
RRT32	32mm	0.5	C	359.67
RRT40	40mm	1.5	C	461.03
RRT50	50mm	1.3	C	359.02
RRT63	63mm	1.3	C	389.47
RRT75	75mm	1.5	C	594.28
RRT90	90mm	1.5	C	548.46
RRT110	110mm	2.0	C	663.81
RRT125	125mm	2.0	C	559.19
RRT160	160mm	2.3	C	757.48
RRT180	180mm	3.0	C	1,029.50
RRT200	200mm	3.0	C	1,071.55
RRT225	225mm	3.0	C	POA
RRT250	250mm	3.0	C	POA

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Mini Squeeze Tool

Features

The mini squeeze tool is designed solely for use on SDR 11 service pipes in the range 16mm to 32mm diameter.

- Manufactured from cast stainless steel
- Compact robust design
- User friendly
- Unique design incorporates built-in safety stops to prevent damage to the pipe



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT32	16mm - 32mm mini squeeze tool	1	B	167.69

Service Squeeze Tool

Features

The service squeeze tool is for flow stopping on 16, 20, 25, 32, 40, 50 and 63mm pipes.

- Cast steel construction
- Hand indexable stops



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT63	16mm - 63mm service squeeze tool (UK)	6	C	295.51
SQT63X10	16mm - 63mm service squeeze tool (Export)	6	A	325.82
SQT63X10-BEAM	16mm - 63mm service squeeze tool (Export) - Bottom Beam	6	C	POA

Mechanical Squeeze Tool

Features

Mechanical squeeze off tool for pipe 63mm-125mm diameter

- Can be used on SDR 11 pipe between sizes 63 and 90mm
- Can be used on SDR17.6 pipe between sizes 90, 110 and 125mm.
- Fabricated steel construction
- Hand indexable stops



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT125M	63 - 125mm mechanical squeeze tool	9	B	824.33

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200 Hydraulic Mains Squeeze Tool

Features

Hydraulic mains squeeze tool used as a flow stop on 63mm - 200mm diameter pipes.

- High quality hydraulic jack
- Spring return after squeeze off
- Fabricated steel construction
- Controlled release through hydraulic shut off valve
- Integral safety relief valve



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT200	200mm squeeze tool with stops for SDR 11 and 17	39	A	2,638.71

250 Mains Squeeze Tool

Features

The 250 mains squeeze tool can be used for flow stopping on 180mm-250mm pipe. Tool supplied with 4 beam sets

- 'A' frame design, robust construction for in-trench work
- The 'A' frame can be detached and used with an additional beam set which allows up to four squeeze- off points to be carried out efficiently with one tool.
- Controlled release through hydraulic shut off valve

Pipe stops need to be ordered separately for each diameter and SDR rating (contact us for further details)



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT250A-2	SQT250 auto hydraulic squeeze off tool 1 beam set	180	C	15,877.50
SQT250A-2AI	SQT250 auto hydraulic squeeze off tool 1 beam set with air intensifier	190	C	22,380.75
SQT250A-2HP	SQT250 auto hydraulic squeeze off tool 1 beam set with hand pump	190	C	20,342.49

400 Mains Squeeze Tool

Features

The 400 mains squeeze tool can be used for flow stopping on 250mm-400mm pipe. Tool supplied with 4 beam sets

- Robust construction
- The cylinders can be detached and used with other beam sets which allows up to four squeeze off points to be carried out efficiently with one tool
- Controlled release through hydraulic shut off valve

Pipe stops need to be ordered separately for each diameter and SDR rating (contact us for further details)



Code	Description	Weight (kg)	Delivery Code	Gross Price
		Kg		£ GBP
SQT400AI	SQT400 auto hydraulic squeeze off tool, 4 beam set with air intensifier	430	C	91,733.67
SQT400E	SQT400 auto hydraulic squeeze off tool, 4 beam set with electric pump	430	C	114,901.19

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Generators

Features

Fusion supplies a range of generators which are specifically manufactured for powering both electrofusion control boxes and automatic butt fusion machines.

Generators are tailored to suit your own specific requirements, please contact us for further details.

- High quality, smooth, regular power output
- Comply with the Tin12 (EC3) specification
- Available in petrol or diesel engines
- Meet the current EC regulations.



Code	Description	Delivery Code	Gross Price £ GBP
P501WF	Generator 5KVA on wheeled frame	C	7,313.44
P750WF	Generator 7.5KVA on wheeled frame	B	9,535.71

Please state output voltage and socket at the time of ordering.

Butt fusion power requirements			
Machine description	Select generator output voltage (V)	Minimum generator output	
	220V single phase	Gator (kVA)	Welda (kVA)
GATOR / WELDA 180	YES	3.5	5
GATOR / WELDA 250	Yes	4.0	5
GATOR / WELDA 315	Yes	6.0	7
GATOR / WELDA 400	Yes	6.5	8
WELDA 500	Yes	N/A	9

Electrofusion power requirements			
Machine description	Select generator output voltage (V)	Minimum power required	
	220V single phase	kW	kVA
SBOX LITE 220	Yes	2.2	2.8
SBOX-MAX	Yes	4.8	6.0

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Hand Scraper

Features

Lightweight hand scraping tool used for scraping pipe areas prior to electrofusion



Code	Description	Weight Kg	Spare blade code	Delivery Code	Gross Price £ GBP
HARRIS	1.5" hand scraper	0.1	60122	A	20.74
HARRISLGE	2.5" hand scraper	0.1	60233	A	24.36

Secateurs

Features

A range of secateurs for cutting pipe in sizes ranging from 16mm to 63mm





Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
PCS2032M	16mm - 42mm small secateur cutter	0.3	C	31.32
PCS2063	20mm - 63mm large secateur cutter (long handle)	2	B	85.70

Jumbo Pipe Cutter

Features

Jumbo pipe cutter for cutting pipe in sizes ranging from 160 - 800mmmm



Code	Description	Weight Kg	Spare Blade code	Delivery Code	Gross Price £ GBP
PCJ355	160mm - 355mm jumbo pipe cutter	24	PCJBLADE	C	7,231.88
PCJ630	355mm - 630mm jumbo pipe cutter	28	PCJBLADE	C	9,135.00
PCJ800	355mm - 800mm jumbo pipe cutter	31	TPCJBLADE	C	11,625.30

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Guillotine Cutter

Features

A range of guillotine cutters for cutting pipe in sizes ranging from 63 - 315mm



Code	Description	Weight Kg	Spare blade code	Delivery Code	Gross Price £ GBP
PCG125	63mm - 125mm guillotine cutter	7.5	60449	C	3,520.82
PCG200	63mm - 225mm guillotine cutter	15	11774	B	5,174.76
PCG315	63mm - 315mm guillotine cutter	33	11923	C	16,540.88

Cutter Keys

Features

A range of drive key tools for service / tapping tee integral cutters with 12mm hexagonal drives.



Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
CUTKEY12	Universal tapping tee cutter key (with cutter key and wrench)	0.6	B	103.46
CUTTERKEYEXL	Universal tapping tee cutter key extended length - 1000mm	1.3	C	249.40

Test Caps

Features

A range of reusable caps for the pressure testing of Fusion manufactured service / tapping tee fittings



Code	Description	Weight Kg	Delivery Code	Gross Price £ GBP
FES-22869	63mm aluminium multiseal test cap	0.4	C	245.78
FES-34571	63mm multiseal test cap	0.1	C	87.94
FES-34263	32mm multiseal test cap	0.1	C	87.36

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Fastcut Drill



Features

Fusion's range of large diameter electrofusion branch saddles provides the gas and water installer with a simple alternative to the high cost of by-pass systems or the inconvenience and associated costs of supply interruptions. Under pressure drilling provides the operator with a simple, safe and cost-effective method of branch installation.

- Modular construction ensures ease of handling and assembly
- Hydraulic operation of cutter head helps the operator with cutting through the pipe
- Can be used with plate or gate valves
- Dedicated cutter drive prevents penetration beyond centre line of main
- Swarf and coupon retained inside cutter
- Drill comes complete with 3 heads as standard - 250, 200 and 150 NP16
- ANSI standard version available upon application
- Rotational/adjustable jack to aid alignment
- Pendant cutter control with timer to allow single operator cut through



Code	Description	Branch Saddle Range	Weight Kg	Delivery Code	Gross Price £ GBP
FCDRILL220V	Fastcut drill complete with power pack	250mm-500mm	197	C	105,138.99

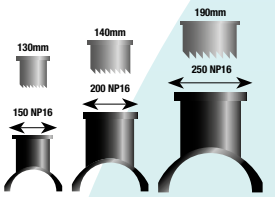
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Large Diameter Branch Saddles | Specification

Features

- Complete with sacrificial under parts - no additional tooling needed
- Minimal pressure drop due to large bore through fitting
- Large electrofusion area ensures integrity of weld
- 39.5 volt fittings
- Tested in accordance with industry specifications

See page 42 for the full range of Large Diameter Branch Saddles





Outlet sizes available: 150, 200, 250 NP16

Branch Saddle Size	Pipe Material	UK GAS APPLICATIONS (GIS)					UK / EUROPEAN WATER APPLICATIONS					EUROPEAN GAS APPLICATIONS				
		Maximum Operating Pressure	Pipe SDR				Maximum Operating Pressure	Pipe SDR				Maximum Operating Pressure	Pipe SDR			
mm			11	17.6	21	26		11	17.6	21	26		11	17.6	21	26
250x150 NP16	PE80	5.5 bar	✓	✓	✓	-	16 bar	✓	✓	✓	-	10 bar	✓	✓	✓	-
	PE100		-	✓	✓	-		✓	✓	✓	-		✓	✓	✓	-
250x200 NP16	PE80	5.5 bar	✓	✓	✓	-	16 bar	✓	✓	✓	-	10 bar	✓	✓	✓	-
	PE100		-	✓	✓	-		✓	✓	✓	-		✓	✓	✓	-
280x150 NP16	PE80	5.5 bar	✓	✓	✓	-	16 bar	✓	✓	✓	-	10 bar	✓	✓	✓	-
	PE100		-	✓	✓	-		✓	✓	✓			✓	✓	✓	-
280x200 NP16	PE80	5.5 bar	✓	✓	✓	-	16 bar	✓	✓	✓	-	10 bar	✓	✓	✓	-
	PE100		-	✓	✓	-		✓	✓	✓	-		✓	✓	✓	-
315x150 NP16	PE80	7 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
315x250 NP16	PE80	7 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
355x150 NP16	PE80	7 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
355x250 NP16	PE80	7 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
400x150 NP16	PE80	5.5 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
400x250 NP16	PE80	5.5 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓	6 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	✓	✓	✓		-	✓	✓	✓
450x150 NP16	PE80	5.5 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓	6 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	✓	✓	✓		-	✓	✓	✓
450x250 NP16	PE80	5.5 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓	6 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	✓	✓	✓		-	✓	✓	✓
500x150 NP16	PE80	5.5 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓	6 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	✓	✓	✓		-	✓	✓	✓
500x250 NP16	PE80	5.5 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓	6 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	✓	✓	✓		-	✓	✓	✓
630x150 NP16	PE80	5.5 bar	✓	✓	✓	✓	16 bar	✓	✓	✓	✓	10 bar	✓	✓	✓	✓
	PE100			✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
Flow stop 315x150 NP16	PE80	2 bar	-	✓	✓	✓	-	-	-	-	-	10 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓	-	-	-	-	-		✓	✓	✓	✓
Flow stop 355x150 NP16	PE80	2 bar	-	✓	✓	✓	-	-	-	-	-	10 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓		-	-	-	-		✓	✓	✓	✓
Flow stop 400x150 NP16	PE80	2 bar	-	✓	✓	✓	-	-	-	-	-	10 bar	✓	✓	✓	✓
	PE100		-	✓	✓	✓	-	-	-	-	-		✓	✓	✓	✓

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ACCESS SYSTEMS



ACCESS SYSTEMS
FOR GAS AND WATER



Fusion offers a comprehensive range of surface boxes in various material combinations: synthetic body with synthetic lids, synthetic body with cast iron lids, synthetic body with ductile iron surface plate/lid as well as cast iron body and lid.

Boundary Boxes
The AVK PENTOBOX range of Water Meter Boundary Boxes, comprises of a class leading, composite Grade B surface box able to withstand an 8 tonne loading and allowing, if required, Automated Meter Reading Technology (AMR). With patented push-fit connections in d20, 25 and 32mm, ½" HG and also ¾" BSP Female threaded.

Surface boxes
Surface boxes are available in a floating design and a fixed/floating reversible design. The reversible surface box allows for deflection and internal fixation of telescopic extension spindles from both ends.

The fixed surface boxes of grey cast iron are height adjustable using ductile iron distance rings of a height of 10-50 mm.

Fixed height surface boxes
Our fixed height synthetic surface boxes are DIN DVGW approved and designed to withstand heavy traffic loads. Therefore, they are often used in medium and heavy duty application areas.

Our Futura range is a lightweight and price competitive version and is often used in light to medium duty application areas.

Height adjustable surface boxes
Fusion offers a wide range of DIN DVGW approved height adjustable surface boxes specifically designed for tarmac installation. The use of height adjustable surface boxes enables easy and precise installation thanks to flexible positioning of the top part. The top part ensures a safe and lasting alignment with the road surface preventing costly and time consuming corrections after installation and when roads are renovated.

As with all valves, best practice techniques should be used during installation and operation. To aid this process a series of recommended accessories is available, these include a reliable installation and access system and retrofit extension spindles.

The valve access system consists of a support base, down pipe, surface box adaptor and surface box. The support base creates stability for the valve and avoids twisting of the pipe, but it also absorbs high loads and centres the down pipe installed on top of the valve ensuring valve operation at all times. The adaptor and surface box complete the valve access system. Besides giving access to the lower buried valve the surface box can bear media identification for easy recognition and, if required, customer specific logos.



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Fusions's wide range of **surface boxes** granting access to lower buried valves at all times.

Ideal transition between surface box and down pipe by use of a **surface box adaptor**.

Flexible height adjustment with cut to length **down pipe**.

CERTUS™ or MAGNUS™ PE ball valve for a quick and easy connection using **Electrofusion couplings** to the existing pipeline

Robust **support base** avoids twisting of the pipe and offers stability.



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AVK Pentobox | Water Meter Boundary Boxes

Features

Series 8054/52-001

- Water Meter Boundary Box, Square Frame, Grade B, Sealed
- Acetal manifold
- Polypropylene frame, lid, sliding guard tube
- NBR Seals
- WRAS approved product
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-120-5211-10301000	20 Push-fit	16	C	96.42
8054-125-5211-10301000	25 Push-fit	16	C	103.09
8054-132-5211-10301000	32 Push-fit	16	C	111.60
8054-121-5211-10301000	½" HG Push-fit	16	C	114.24
8054-326-5211-10301000	¾" BSP female	16	C	116.60

Features

Series 8054/22-001

- Water Meter Boundary Box, Grade B Version, Sealed
- Acetal manifold
- Polypropylene frame, lid, sliding guard tube
- NBR Seals
- WRAS approved product
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-120-2211-10301000	20 Push-fit	16	C	96.42
8054-125-2211-10301000	25 Push-fit	16	C	103.09
8054-132-2211-10301000	32 Push-fit	16	C	111.60
8054-121-2211-10301000	½" HG Push-fit	16	C	114.24
8054-326-2211-10301000	¾" BSP female	16	C	116.60

Features

Series 8054/62-001

- Water Meter Boundary Box, Square Frame, Grade C, Sealed
- Acetal manifold
- Polypropylene frame, lid, sliding guard tube
- NBR Seals
- WRAS approved product
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-120-6211-10301000	20 Push-fit	16	C	87.80
8054-125-6211-10301000	25 Push-fit	16	C	92.46
8054-132-6211-10301000	32 Push-fit	16	C	106.26
8054-121-6211-10301000	½" HG Push-fit	16	C	111.15
8054-326-6211-10301000	¾" BSP female	16	C	114.16

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Features

Series 8054/82-001

- Water Meter Boundary Box, Grade B Version, Unsealed
- Acetal manifold
- Polypropylene frame, ductile lid, sliding guard tube
- NBR Seals
- WRAS approved product
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-120-8212-10601000	20 Push-fit	16	C	148.18
8054-125-8212-10601000	25 Push-fit	16	C	136.03
8054-132-8212-10601000	32 Push-fit	16	C	168.64
8054-121-8212-10601000	½" HG Push-fit	16	C	148.18
8054-326-8212-10601000	¾" BSP female	16	C	173.26

Features

Series 8054/52-002

- Water Meter Boundary Box for Contaminated Ground, Grade B Version, Sealed
- Gunmetal manifold
- Polypropylene frame, lid, sliding guard tube
- NBR Seals
- WRAS approved materials
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-726-5211-10301000	¾" BSP female	16	C	224.27

Features

Series 8054/53-001

- Water Meter Boundary Box, Double Outlet, Grade B, Sealed
- Double acetal manifold
- Polypropylene frame, lid, sliding guard tube
- NBR Seals
- WRAS approved materials
- PN16

Liner included where required



Code	d	PN	Delivery Code	Gross Price
	mm / inch	Bar		£ GBP
8054-125-5311-10301200	25 Push-fit	16	C	208.07
8054-132-5311-10301200	32 Push-fit	16	C	224.36
8054-121-5311-10301200	½" HG Push-fit	16	C	219.74

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AVK Pentobox | Accessories

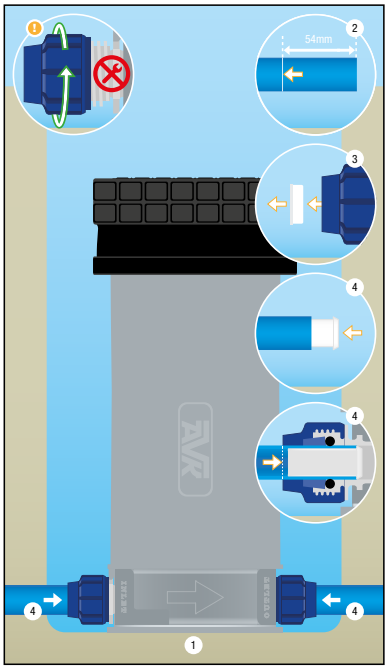
Code	Item	Delivery Code	Gross Price
			£ GBP
605970060	Blanking Plug Full-flow	C	6.48
Blanking Plug Trickle-flow	Blanking Plug Trickle-flow	C	10.80
Blanking Plug No-flow	Blanking Plug No-flow	C	10.80
605970120	Long Valve Handle	C	6.48
Long Valve Handle Gunmetal Contaminated	Long Valve Handle Gunmetal Contaminated	C	10.80
605970120	Short Valve Handle	C	6.48
605970901	Check Valve Assembly	C	9.72
942700050	Frost Plug	C	9.72
605970921	Lid Grade B Composite	C	32.40
605970922	Lid Grade C Composite	C	23.76
970110101500002	Lid Grade B Ductile	C	60.97
605971000	Sliding Guard Tube, Cover Frame and Lid Grade B	C	64.80
605971002	Sliding Guard Tube, Cover Frame and Lid Grade C	C	59.40



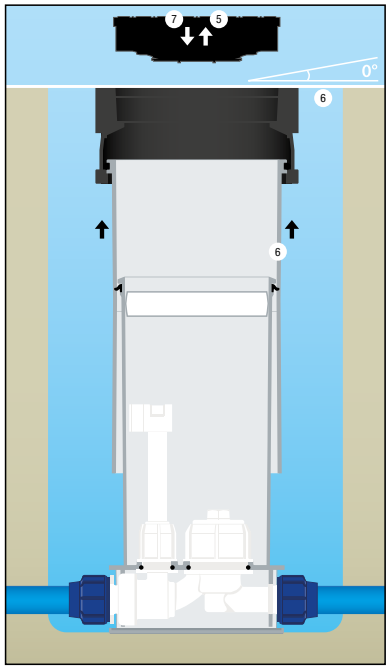
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INSTALLATION MANUAL
AVK PENTOBOX

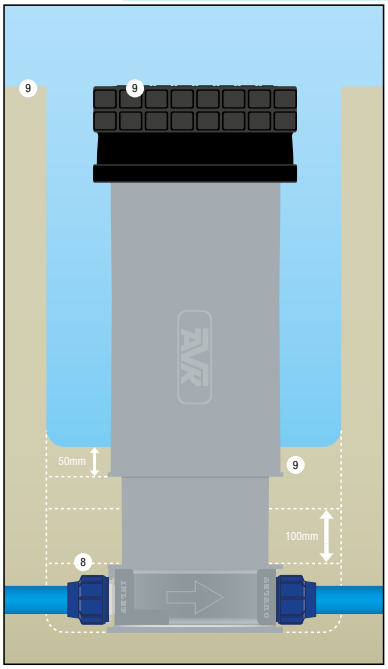
In case you need to disassemble the pushfit connection, unscrew the blue nut by hand. Don't use heavy tools.



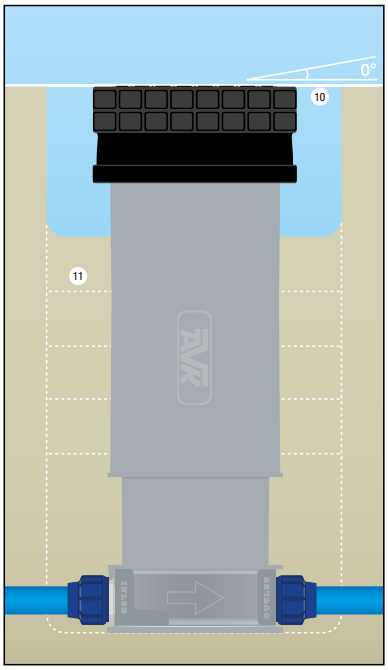
1. Prepare hole with level base.
2. Mark the pipe 54mm from the end.
3. Remove dustcaps from push fit connections and take plastic sleeves out of push fit.
4. Place sleeves into pipes and insert pipes into push fit connections (no need to twist the blue nuts). Push pipe as far as marked in step 2.



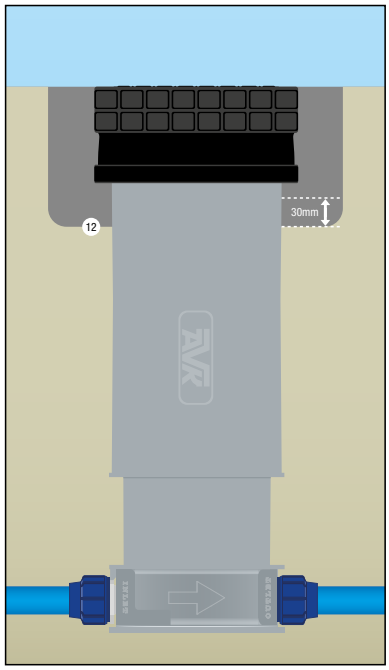
5. Remove cover.
6. Adjust height of telescopic Pentobox and use a straight edge to align the Pentobox with the ground level.
7. Put the cover back in place.



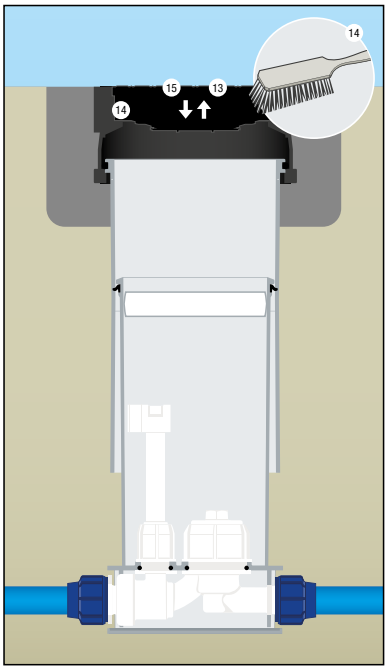
8. Fill hole with gravel in steps of ±100mm layers and compact each layer.
9. When the gravel is ±50mm over the outer sleeve, the top of the Pentobox needs to be adjusted with the ground level.



10. Use a straight edge to make sure the top of the Pentobox is perfectly aligned with the ground level.
11. Continue filling the hole with ±100mm layers of gravel and compact thoroughly at each step.



12. For high load bearing requirements it is necessary to lay sufficient support, from 30mm under the cover frame up to the top of the cover frame.



13. Remove the cover.
14. Clean the seal area in the cover frame so it is clear of debris.
15. Put the cover back in place.

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SURFACE BOXES
PRODUCT TYPES



CLASSIC
FIXED HEIGHT

- Design according DIN/EN, DVGW certified
- Cast iron lids available for all surface boxes
- Synthetic lids available for most surface boxes

CLASSIC
PAVEMENT

- Design derived from DIN/EN
- Special range for pavement installation
- Cast iron lids and synthetic lids available





CLASSIC
HEIGHT ADJUSTABLE

- Design according to DIN/EN, DVGW certified
- Special range for tarmac installation
- Easy and precise installation
- No costly corrections after installation

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CLASSIC
HEIGHT ADJUSTABLE WITH REINFORCED RIM

- Design derived from DIN/EN
- Special range for tarmac installation
- Strong rim also makes range especially suitable for heavy duty application areas





FUTURA
FIXED HEIGHT AND PAVEMENT

- Design derived from DIN/EN
- Cast iron lids and synthetic lids available
- Range available with round or square top

SPECIALS

- Customer specific design
- Surface boxes and lids available in various materials
- Various lid inscriptions possible





ACCESSOIRES

- Wide variety of accessories available
- Enable complete system solutions
- Sustainable solutions extend product lifetime

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Fixed Height Surface Box

Features

Series 80/32-200

- Fixed height surface box for service connection valves
- Design derived from DIN 4057
- Square top
- Cast iron lid
- PA+ body



Code	Weight	Units	Delivery Code	Gross Price
	Kg	Per pallet		£ GBP
80-32-200-0000	3.1	96	C	POA

Height Adjustable Surface Box

Features

Series 80/32-100

- Height adjustable surface box for service connection valves
- Design according to DIN 4057
- Cast iron lid
- PA+ body



Code	Weight	Units	Delivery Code	Gross Price
	Kg	Per pallet		£ GBP
80-32-100-0000	3.7	96	C	POA

Additional Products



SERIES 80/32-011
Fixed height surface box for service connection valves - Futura design - cast iron lid
PA+ Body



SERIES 80/31-211
Fixed height surface box for distribution valves - Futura design - square top - cast iron lid
PA+ Body



SERIES 80/33-000
Fixed height surface box for service connection valves, design derived from DIN 4059. Cast iron lid, standard inscription: GAS. PA+ Body



SERIES 80/32-211
Fixed height surface box for service connection valves - Futura design - square top - cast iron lid
PA+ Body



SERIES 80/33-400
Height adjustable surface box for service connection valves, design derived from DIN 4059
Cast iron lid, reinforced rim. PA+ Body



SERIES 80/33-100
Height adjustable surface box for service connection valves, design derived from DIN 4059. Cast iron lid, standard inscription: GAS. PA+ Body



SERIES 80/34-100
Height adjustable surface box for distribution valves, design according to DIN 3581. Cast iron lid, standard inscription: GAS
PA+ Body



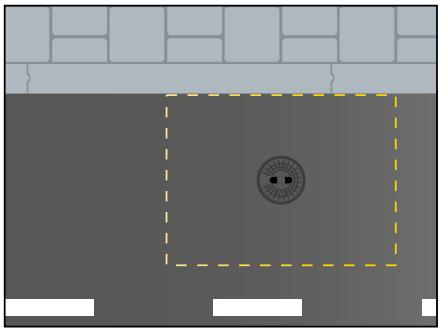
SERIES 80/34-000
Fixed height surface box for distribution valves, design according to DIN 3581. Cast iron lid, standard inscription: GAS
PA+ Body



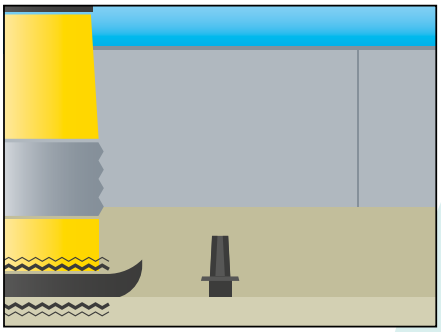
SERIES 80/40
Fixed height surface box for distribution valves
Cast iron lid
PE body

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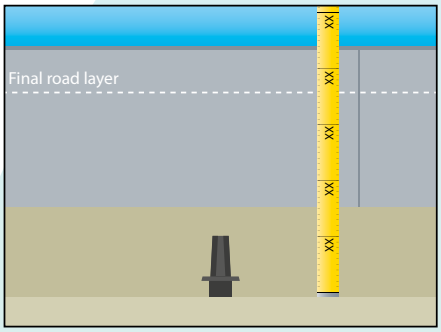
INSTALLATION MANUAL
FIXED HEIGHT SURFACE BOX



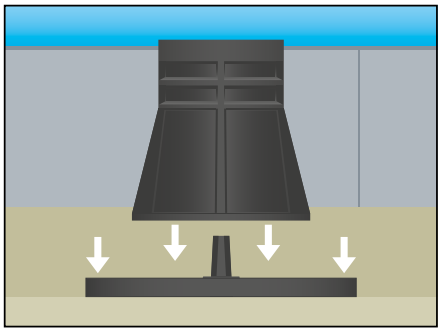
Final situation



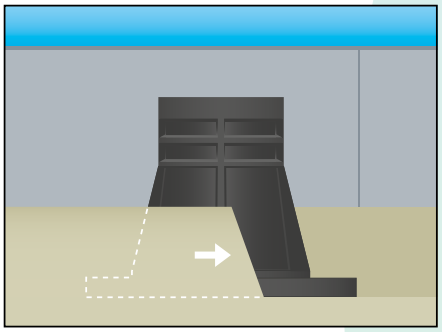
1. Compact the subsoil.



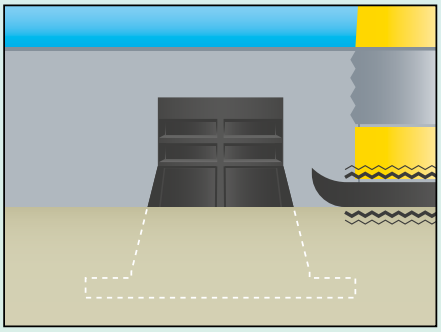
2. Determine the final height of the surface box.



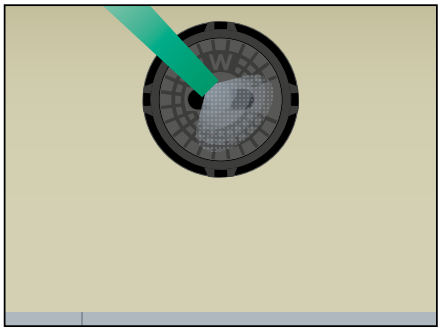
3. Place the support tile on the subsoil around the spindle and centre the surface box on the support tile.



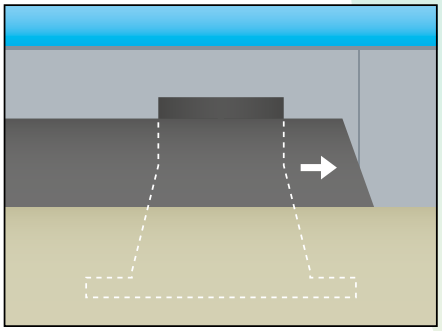
4. Surround the surface box with soil/concrete.



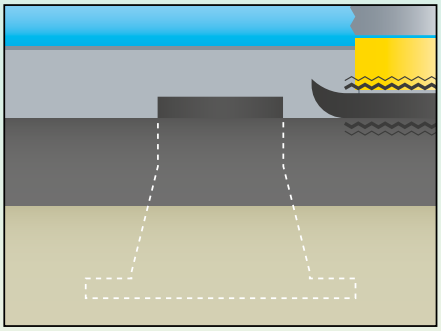
5. Compact the surrounding soil.



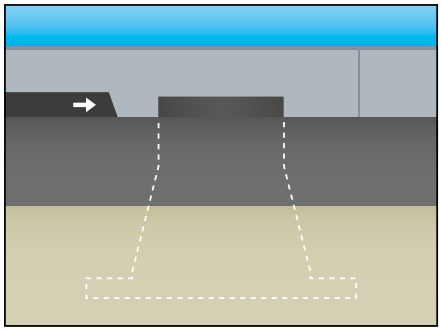
6. Apply release agent on the lid.



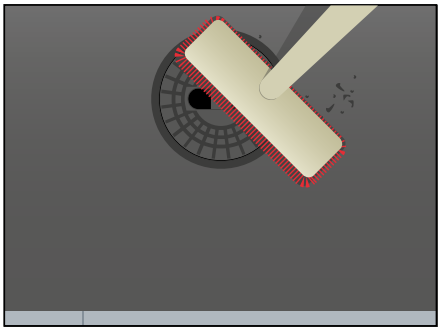
7. Apply the first layer of tarmac.



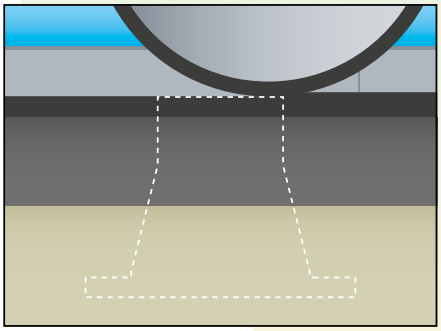
8. Compact the tarmac around the surface box.



9. Apply the final layer of tarmac.



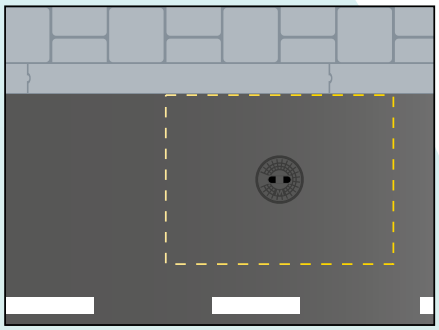
10. Clean the top of the surface box.



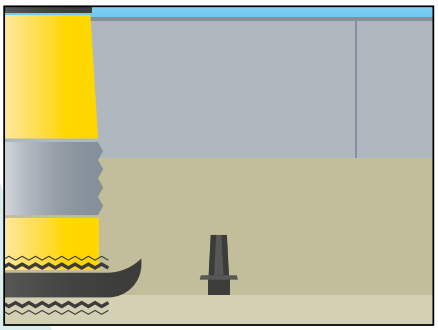
11. Use a roller to compact the final layer.

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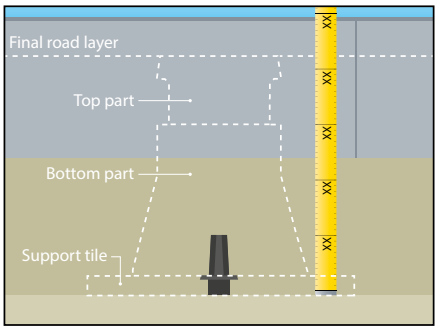
INSTALLATION MANUAL
ADJUSTABLE HEIGHT SURFACE BOX



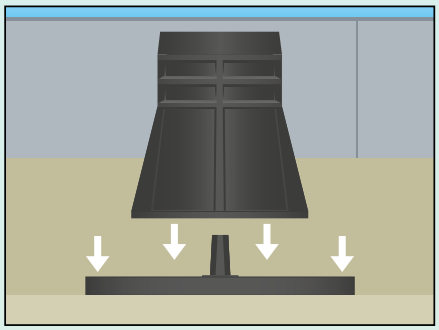
Final situation



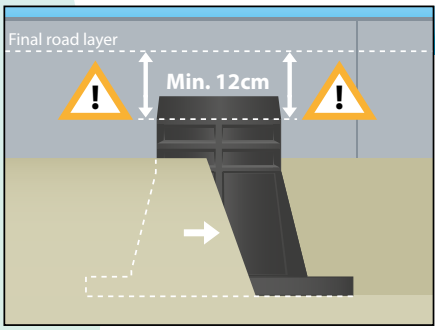
1. Compact the subsoil.



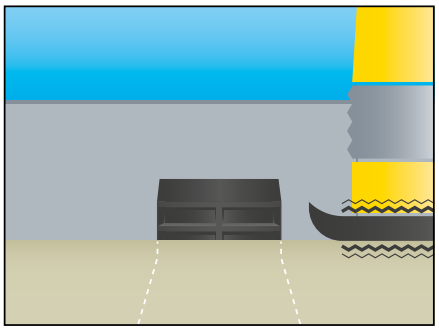
2. Determine the final height of the surface box.



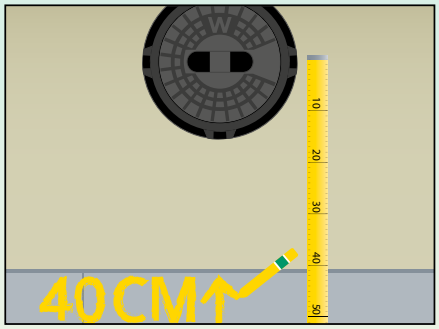
3. Place the support tile (optional) on the subsoil, centre the surface box on the support tile and make sure the top part is in the lowest position.



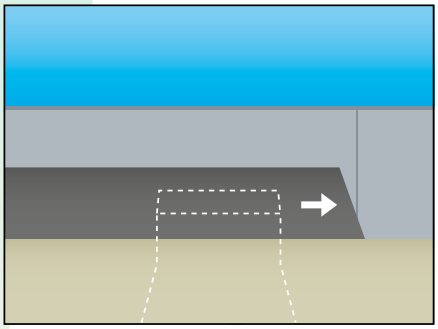
4. Make sure the final height of the top part will be at least 12 cm higher than the bottom part. Surround the surface box with soil/concrete.



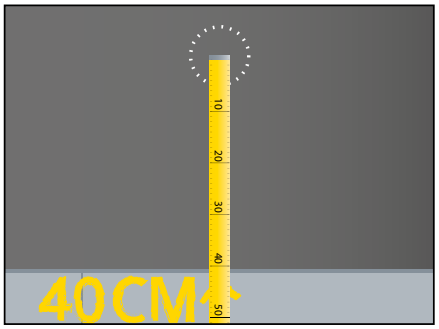
5. Compact the surrounding soil.



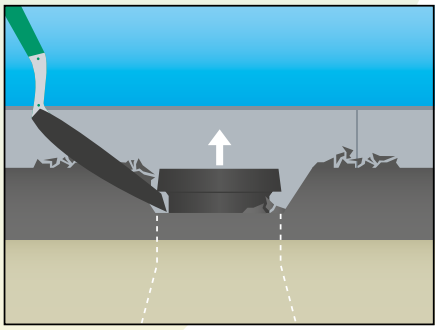
6. Mark the position of the surface box on the curbstone.



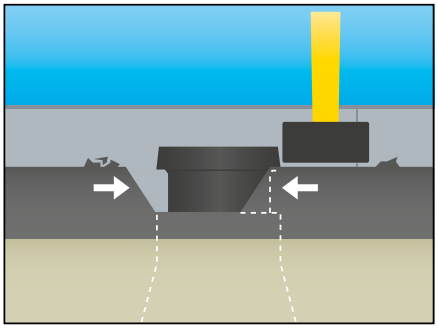
7. Apply the first layer of tarmac. Completely cover the surface box.



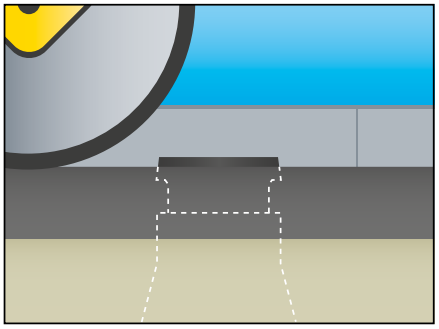
8. Locate the surface box.



9. Dig out the top part and lift it approximately 2 cm above surface.

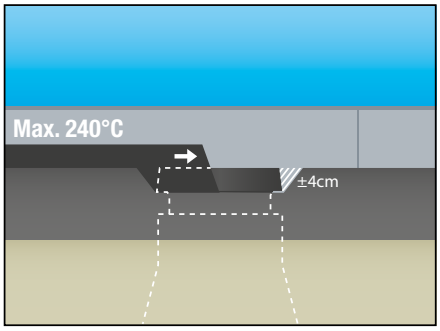


10. Compact the area surrounding the top part.

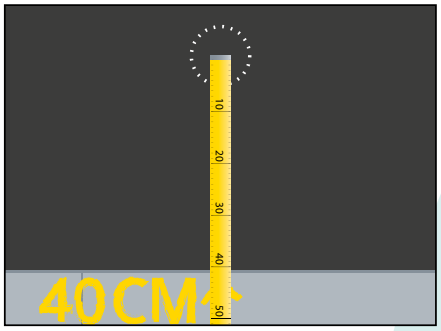


11. Use a roller to compact the tarmac layer and settle the top part of the surface box.

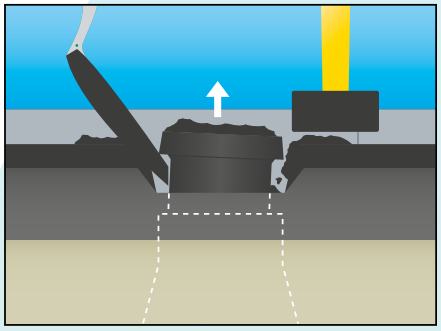
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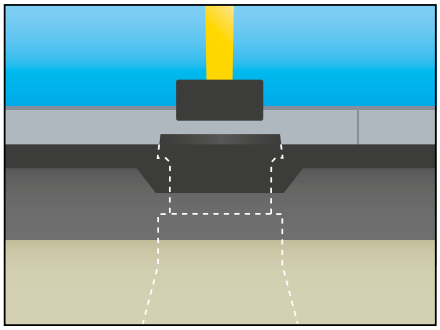
12. Create a slope of approximately 4 cm wide and 4 cm deep around the surface box and apply the final layer of tarmac.



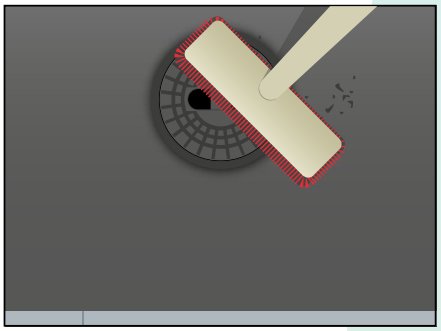
13. Locate the surface box once more.



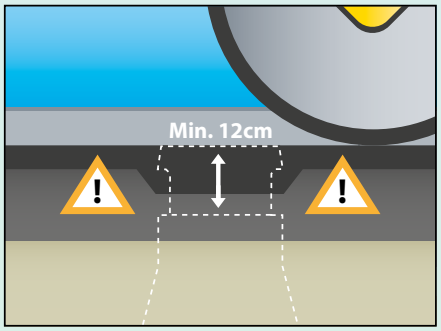
14. Dig out and clear the top part. Lift it approximately 2 cm above surface. Compact the tarmac surrounding the top part.



15. Manually push the top part down as far as possible.



16. Clean the top of the surface box.



17. Use a roller to compact the final layer and settle the top part.

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A dedicated member of the AVK Group

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