

TALBOT PUSHFIT



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TALBOT PUSHFIT - FITTINGS FOR WATER PIPE

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The Talbot Pushfit connection is a tried and tested method of connecting low, medium and high density metric polyethylene water pipe from 16mm to 63mm

ADVANTAGES

└ User Friendly

The Talbot Pushfit fitting is quick and easy to use with no nuts to leave undone, simply push the pipe into the fitting.

└ Stronger Than The Pipe

The fittings grip and seal on the pipe increases with water pressure and tensile load. This means that the PE pipe will burst or neck before the connection fails. The Talbot Pushfit fitting is pressure rated PN 16.

└ Tough and Robust

Talbot Pushfit fittings are manufactured from high performance materials for resistance to distortion and corrosion and for strong threaded connections.

└ Adaptor from Imperial to Metric pipe

Select the fitting type you need, and using the imperial components that are available, convert the fitting to an adaptor.



APPLICATIONS



House connection

APPROVALS



TALBOT GRIPPA UNIVERSAL SERVICE CONNECTOR

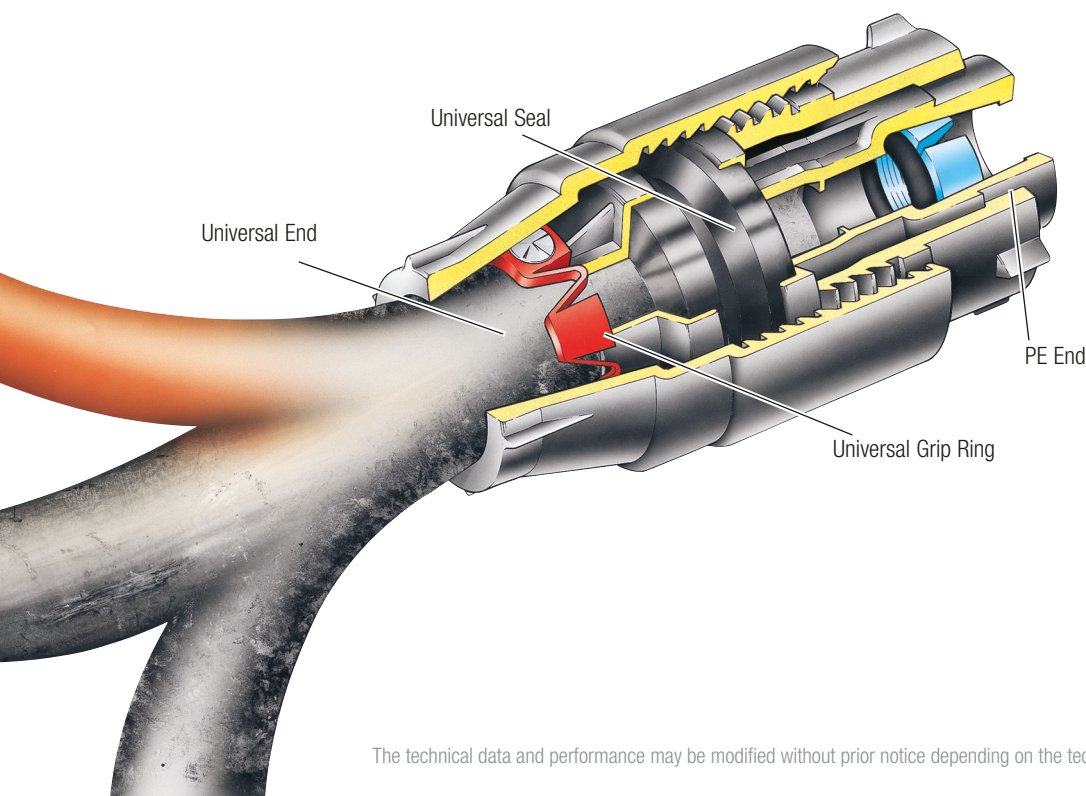


The Talbot Grippa is a universal fitting that connects onto a wide variety of existing lead, galvanised iron and copper pipes with no change of components. The range consists of just three fittings which suit all metal pipes with outside diameters of 15mm (3/4") to 34mm (3/8").

Benefits

- Universal**
 One fitting securely connects onto lead, copper and galvanised iron service pipes.
- Simple to install**
 Simply push the pipe into the fitting and tighten, no loose assembly of components or special preparation of the pipe or cutting of threads.
- Cost Effective**
 With only three fittings covering the majority of lead, copper and galvanised iron pipe sizes, stock is dramatically reduced.

Range Information				PE End - Suits:
Universal End	3/8" Grippa	1/2" Grippa	3/4" Grippa	
Pipe OD range	15-21mm	21-27mm	27-34mm	Metric BS6572 and 6730 pipe with a liner and DIN and ISO pipes. (Blue grip ring, black 'O' ring marked 'M'), or Imperial B.S pipe (black grip ring, black 'O' ring).
Type of pipe				
Lead	3/8" 4lb-6lb	1/2" 5lb-9lb	3/4" 7lb-11lb	
Galvanised Iron	3/8"	1/2"	3/4"	
Copper	15mm, 1/2"	22mm, 3/4"	28mm, 1"	



TALBOT PUSHFIT - SERVICE FITTINGS FOR PE PIPE

Talbot Pushfit fittings are quick and easy to use, with no nuts to loose or leave undone. Simply push the pipe into the fitting. The grip and seal on the pipe increases with pressure and tensile load so that the pipe will burst or neck before the fitting will fail.

Pushfit for Metric PE (16mm - 63mm)

Pushfit for Imperial PE ($\frac{3}{8}$ " - 2")

Benefits

- Quick and easy to use, with no nuts to loose or leave undone.
- The connections grip and seal on the pipe increases with water pressure and tensile load so that the pipe will burst or neck before the connection will fail.
- Pushfit connects to metric MDPE pipes.
- Pushfit fittings are manufactured from high performance materials for resistance to distortion and corrosion and for strong threaded connections.

Technical data

Pressures: Working: 16 bar Test: 24 bar

The pressures stated above apply with water temperatures up to 20°C

Temperature: Up to 40°

Temperature increases may affect the installed life of the product.

Talbot Pushfit fittings can be supplied to meet the applicable performance requirements of:

ISO 3458, 3459, 3501, 3503

WIS 4-23-04, WIS 4-32-11

All materials used with the Talbot Pushfit fitting that come into contact with potable water are WRAS listed.

The Talbot Pushfit connection can be used with MDPE pipe of the following specifications:

BS EN 12201,-1,2,5, (BS 6730 & BS 6572)

DIN 66324-1:1992-09 (DIN 8072)

DIN 8074 all series

ISO 161 Parts I & II

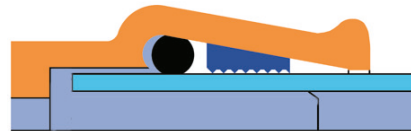
WIS 4-32-03

WIS 4-32-13

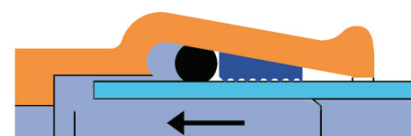
AS/NZS 4130

Please contact us to check compatibility of other PE pipes, including those to AWWA and ASTM standards

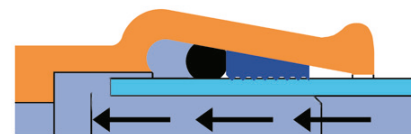
How Pushfit Works



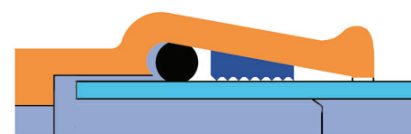
After insertion of the pipe, with the components at rest, the 'O' ring provides the water seal and the grip ring is ready to resist any pull out.



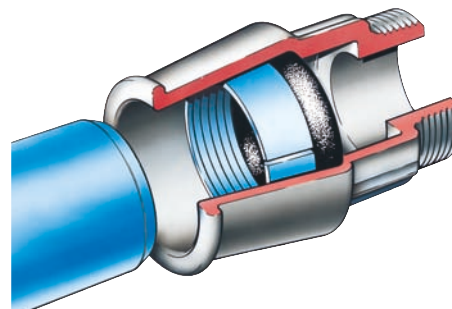
Water pressure forces the 'O' ring against the grip ring, pushing both components down the taper of the fitting creating an excellent pressure seal on the pipe.



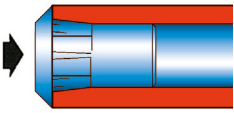
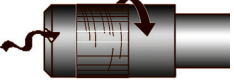
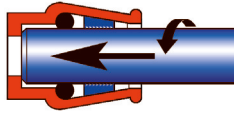

As the water pressure rises the 'O' ring is forced further down the tapered body towards the grip ring, increasing the sealing pressure against the pipe and body.



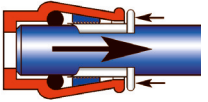
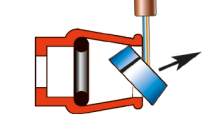

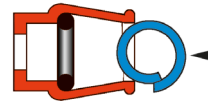
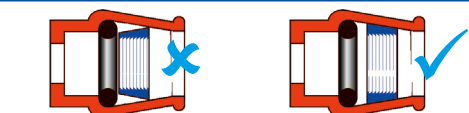
In negative pressure conditions the 'O' ring remains in its original seating position and provides an effective vacuum seal.



Pushfit Assembly Instructions

	1a. For PE100 pipe SDR9 for 20mm, SDR11 for 25mm to 63mm, push the correct liner fully into the pipe.
	1b. Change to For other PE pipes. Bevel the pipe. No liner is required.
	2. Push the pipe fully into the fitting with a slight twist.
	3. Ensure that the pipe passes two points of resistance and is fully seated.

Pushfit Dismantling Instructions

	1. Slide extractors home and withdraw the pipe.
	2. Extract the grip ring with a screwdriver. Do not re-use the grip ring.
	3. Extract and inspect the 'O' ring - replace it if damaged.
	4. Insert a new grip ring by forming a figure '6' and pressing it in.
	5. Ensure the grip ring is inserted the correct way round.

General application

Pushfit uses a common body and only two sets of interchangeable components to connect to metric PE pipes. Service Fittings: 16mm to 63mm.

Connectors:

Equal and reducing connectors, tees and 90° bends.

Adaptors:

PE x male and female thread, PE x female threaded swivel adaptors (meter couplings).

Grippa - Universal service adaptor for lead, copper and galvanised iron.

Male threaded:

BSP EN10226-1:2004 male taper thread or BS EN ISO 228-1:2003 male parallel thread.

Female threaded:

BSP EN10226-1:2004 female taper thread or BS EN ISO 228-1:2003 female parallel thread.

Connectors:

45° bends and equal and reducing connectors.

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Tools



Extractors

Available in either metal or plastic for removing the Pushfit fitting from the pipe. The same size tool is used for both metric and imperial pipe, with between 2 and 4 per set depending on the size of the fitting. When ordering please state number of sets required. Plastic extractors are supplied in bags of 10 sets and are available in sizes 20mm to 32mm, whilst metal extractors are available in sizes 20mm to 63mm.

Chamfering Tool

For preparing the pipe ends for the pushfit fitting when liners are not being used. The universal chamfering tool covers sizes from 16mm to 63mm.



Available to order separately

Liner or Insert

For use with metric pipe to BS EN 12201, -1,2,5, (BS 6572) and WIS 4-32-03. The liner has a chamfered nose cone eliminating the need to chamfer the pipe, and longitudinal ribs to ensure a secure fit inside the pipe. For metric pipe only. Marked with size and class.

Liners are required for PE100 SDR11 pipe 25,32,40,50 and 63mm and SDR pipe 20mm. Other pipes do not require liners. Liners should be ordered



Grip and 'O' Ring

Metric:

Available as spare parts in dimensions 16, 20, 25, 32, 40, 50, 63mm.

Imperial:

$\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", 2"



Service size grip rings and 'O' rings are identified as follows:

Metric Pipe:	Grip ring	Dark blue
	'O' ring	Black
Imperial Pipe:	Grip ring	Black
	'O' ring	Black



Performance Specification

With reasonable care the simple Talbot Pushfit design minimises the risk of error during assembly. Talbot Pushfit fittings have excellent mechanical strength and can tolerate normal pipe imperfections as well as unsquare cut ends of pipe. Liners should be used for PE100 SDR11 pipe 25-63mm and PE100 SDR9 pipe 20mm.

To meet the requirements of the Water Regulations Advisory Scheme (WRAS) it is necessary to use an insert or liner with metric MDPE service pipe to BS 6572:1985, BS 6730 and HPPE to WIS 4-32-13 for below ground use in the UK.

The liner is not an integral part of the Pushfit joint and for polyethylene pipe other than the PE pipe material shown above use of the liner is optional. If a liner is not used the connection will still substantially exceed most international performance requirements.

Suggested tightening torques for threaded ends of plastic fittings:

- ½" BSP - 25 Nm
- ¾" BSP - 30 Nm
- 1" BSP - 35 Nm
- 1½" BSP - 40 Nm
- 2" BSP - 50 Nm

It is recommended that PTFE tape should be used on all tapered thread connections.

How to order

Talbot Pushfit service fittings are supplied with grip ring and 'O' ring assembled inside the body.

When ordering, please indicate the size and specification or standard of your pipe to enable the correct components to be supplied. Liners must be ordered separately.

Order extractor tools for each of your operators and bevelling tools if liners are not required.

Material Specification

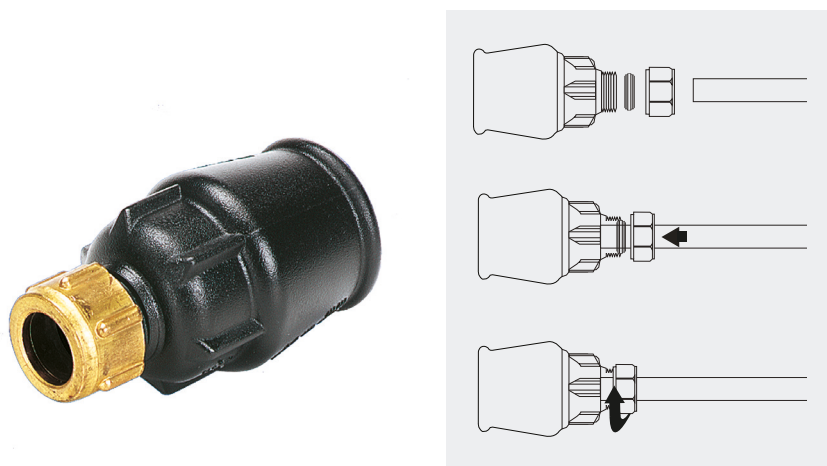
Description	Material	Specification
Bodies		
Plastic Fittings	Acetal or Polypropylene	
Gunmetal Fittings	Cast Gunmetal	BS1400 LG2 (BS EN 1982 Grade CC491K)
Brass Fittings	DZR Brass	BS 2784 CZ 132 M (BS EN 1982 Grade CW602N)
Components		
Grip Ring	Acetal	
'O' Ring	EPDM	BS EN 681
Liner	Polypropylene/Acetal	
Reinforcing Ring	Stainless Steel	Grade 304

Tendering Specification

Pushfit fittings for external underground polyethylene as manufactured by Atplas. The fitting is to consist of a body with internal taper, grip ring for end load resistance, 'O' ring for watertight seal and liner(s) (if required).

The seal of the pushfit joint is obtained using water pressure as a thrust medium and therefore no tool is used to obtain a watertight connection.

The supplier is to be certified to ISO 9001 for Supplier Quality Management Systems.



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Note: Specifications may be changed without notification at any time.

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