

TALBOT GRIPPA



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SERVICE FITTINGS

GRIPPA

The Talbot Grippa is a universal fitting that adapts PE pipe to 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 (3/8") to 34mm (3/4"). The 'Universal' connection of the Grippa fitting utilises a patented adjusting grip ring and seal. These two components allow a watertight, end load resistant connection to be made without special preparation of the pipe or the fitting, over a wide range of pipe diameters.



ADVANTAGES

STOCK

Reduced stockholding as three fittings connect on to the majority of lead, copper and galvanised iron pipe sizes

SIMPLE

Simple to install, with no loose assembly of components or special preparation of the pipe

ROBUST

Pipe cannot be removed from the fitting without the necessary Talbot extractors

APPLICATIONS



House connection

APPROVALS

- Made from WRAS approved materials
- ACS

RANGE

Grippa 3/8" - 15mm to 21mm metallic pipe

Grippa 1/2" - 21mm to 27mm metallic pipe

Grippa 3/4" - 27mm to 34mm metallic pipe

Each of the above is available to connect to: 20mm or 25mm PE pipe.

TECHNICAL DATA

- Nominal Pressure (PN):** Working: 16 bar Test: 24 bar. The pressures stated above apply with water temperatures up to 20 °C
- Medium Temperature:** up to 40 °C. Temperature increases may affect the installed life of the product.
- Materials:** Acetal body, EPDM seals

Suits pipe to the following specifications:

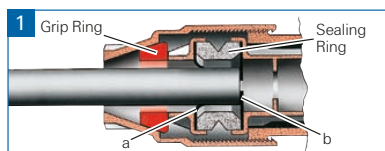
PE end:	Metallic end:
BS EN 12201,-1,2,5, (BS 6730 & BS 6572)	Suits any metallic pipe from 15mm to 34mm OD
DIN 66324-1:1992-09 (DIN 8072)	
DIN 8074 all series	
ISO 161 Parts I & II	
WIS 4-32-03	
WIS 4-32-13	
AS/NZS 4130	

CHARACTERISTICS

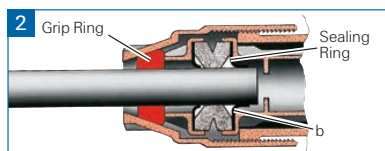
- Grippa Body** - Acetal body houses all parts.
- Grip Ring** - Moulded in engineering plastic with stainless steel studs for additional grip, the grip ring's patented design allows it to adjust automatically and grip firmly onto a wide range of pipe size and materials.
- Nut** - The Grippa nut provides the load which compresses both the seal and the grip ring.
- Sealing Ring** - Moulded in WRAS approved EPDM Rubber and incorporates two stand off moulded washers to ensure correct pipe insertion during installation. The sealing ring's patented design enables its internal diameter to constrict when compressed, so forming an effective watertight seal around a variety of pipe diameters.
- PE End** - The 25mm (3/4") or 20mm (1/2") Pushfit end houses the PE grip and O-ring and provides the tried and tested performance synonymous with Talbot Pushfit

How Grippa Works

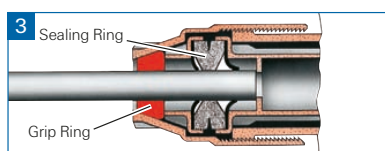
The 'Universal' connection of the Grippa fitting utilises a patented adjusting grip ring and seal. These two components allow a watertight, end load resistant connection to be made without special preparation of the pipe or the fitting, over a wide range of pipe diameters.



The lead, galvanised iron or copper pipe is inserted past the grip ring, then past the first point of resistance (a) and up to the second point of resistance (b).

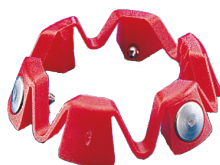


On tightening the fitting the seal is compressed and its internal diameter reduces. At the same time the grip ring moves down the mouth of the fitting, reducing in diameter and the pipe is drawn past the second point of resistance (b).



The smaller the pipe diameter the further the grip ring and seal are compressed.

Components



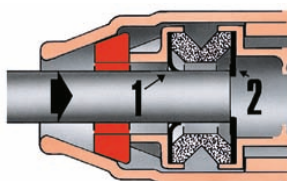
The grip ring's flexibility allows it to be compressed inwards when pushed down the tapered mouth of the fitting. This enables Grippa to join a wide range of pipe types and sizes. The patented grip ring has two sets of gripping teeth. Firstly, six sets of moulded plastic teeth to provide a uniform, secure grip onto the softer lead pipes. For harder copper and galvanised iron there is a secondary set of three stainless steel studs which grip securely into the surface of the pipe.

Assembly - Universal End

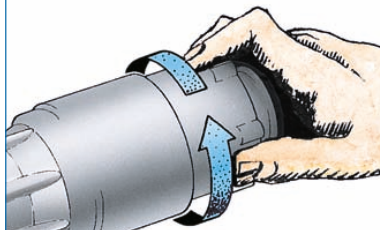
1. Cut the pipe square and ensure it is clean, round and within tolerance. Scrape off loose paint or deep scratches.



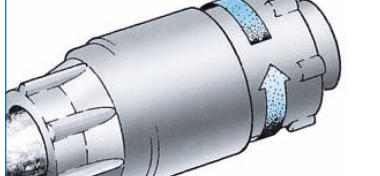
2. Push the Universal End of the fitting onto the pipe, PAST first point of resistance and UP TO the second.



3. Hand tighten the nut on the PE End.

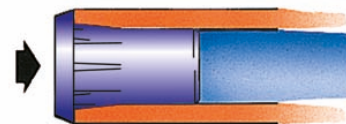


4. Tighten with a spanner or wrench a further 1½ turns.

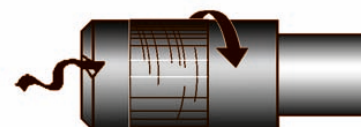


Assembly - PE End

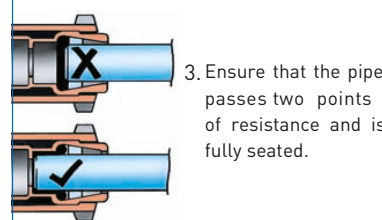
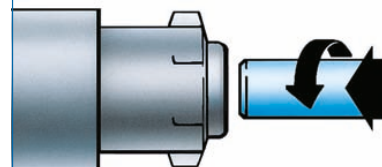
1a. For PE100 pipe SDR9 for 20mm, SDR11 for 25mm to 63mm, push the correct liner fully into the pipe.



1b. For other PE pipes, cut the pipe square and bevel the cut end (no liner is required)



2. Push the pipe fully into the PE end of the fitting, if possible with a slight twist.



3. Ensure that the pipe passes two points of resistance and is fully seated.

Note

Disassembly of this fitting prior to installation may cause it not to operate effectively.



TALBOT GRIPPA SERVICE FITTINGS FOR WATER PIPE

The Talbot Grippa range consists of three fittings which together suit all metal pipes with an outside diameter of 15mm to 34mm including the different weights of lead pipe.

Sealing Ring

Moulded in WRAS approved EPDM Rubber and incorporates two stand off moulded washers to ensure correct pipe insertion during installation. The sealing ring's patented design enables its internal diameter to constrict when compressed, so forming an effective watertight seal around a variety of pipe diameters.

Spacer

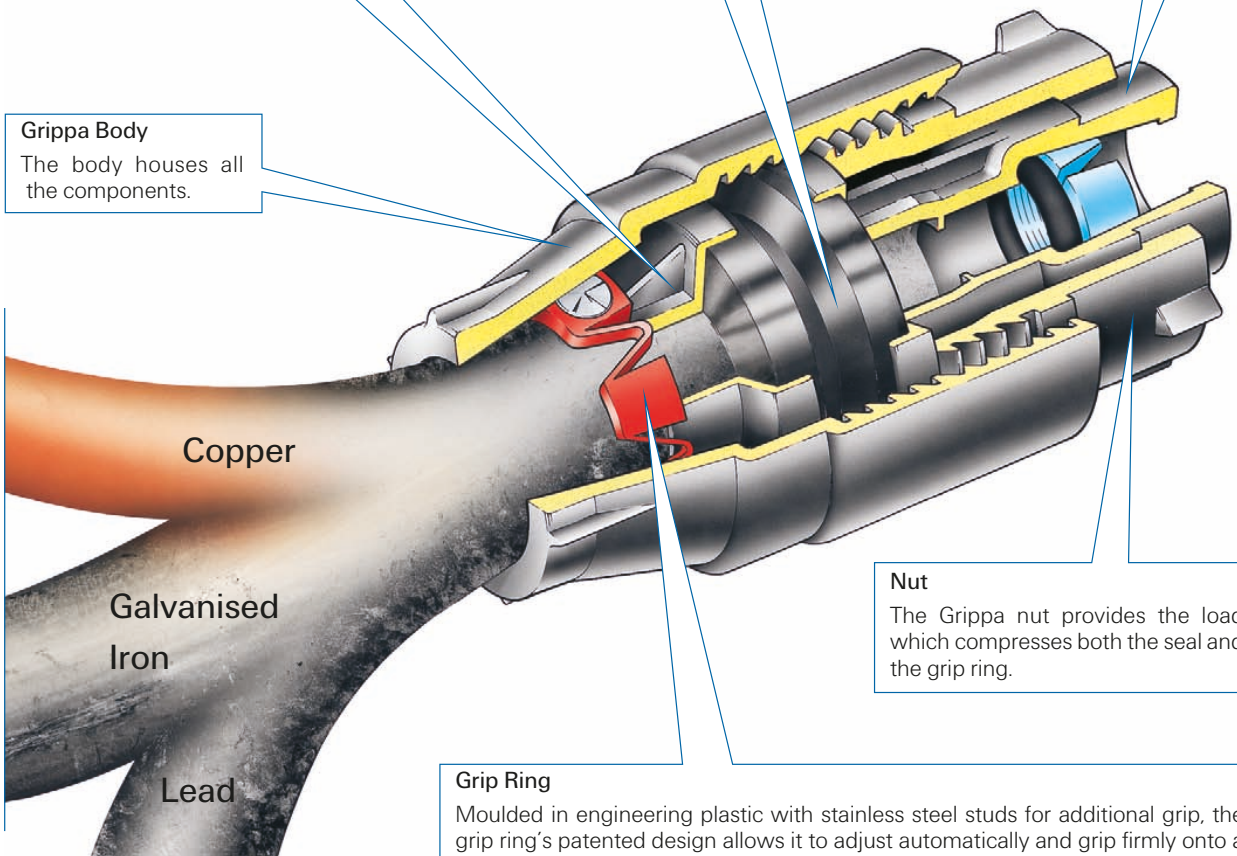
The spacer provides support for the seal and grip ring ensuring their even loading and sealing.

PE End

The 25mm or 20mm Pushfit end houses the PE grip and 'O' ring and provides the tried and tested performance synonymous with Talbot Pushfit.

Grippa Body

The body houses all the components.



Nut

The Grippa nut provides the load which compresses both the seal and the grip ring.

Grip Ring

Moulded in engineering plastic with stainless steel studs for additional grip, the grip ring's patented design allows it to adjust automatically and grip firmly onto a wide range of pipe sizes and materials.



Range Information

Universal End	3/8" Grippa	1/2" Grippa	3/4" Grippa	PE End
Pipe OD range	15mm - 21mm	21mm - 27mm	27mm - 34mm	Suits metric BS 6572 and 6730 pipe with a liner and DIN and ISO pipes.
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"	

Performance Specifications

With reasonable care the simple Talbot Grippa design minimises the risk of error during assembly. Talbot fittings have excellent mechanical strength and can tolerate normal pipe imperfections as well as unsquare cut ends of pipe.

To meet the requirements of the Water Regulations Advisory Scheme (WRAS) it is necessary when connecting to the PE end of the Grippa fitting 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. Liners should be used for PE100 SDR9 pipe 20mm and PE100 SDR11 pipe 25mm.

The liner is not an integral part of the Grippa connection 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.

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
Bodies	
Plastic Fittings	Acetal or Polypropylene
Components	
Grip Ring	Acetal
'O' Ring	EPDM
Liner	Polypropylene/Acetal

Associated Products

Talbot Pushfit fittings are quick and easy to use, with no nuts to lose 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. The Talbot Grippa enables new PE distribution networks created using the Talbot Pushfit connection to be connected to existing service pipe of lead, galvanised iron or copper.



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