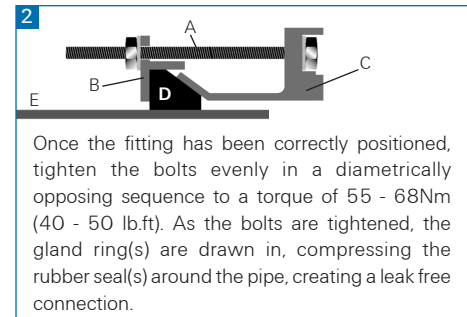
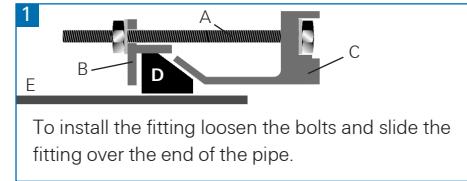


Mains Connections - UPE Universal Range

UPE Universal Flange Adaptors - Handy Hints for Installers

1. For convenience, we recommend the use of a 19mm (3/4") ratchet ring spanner or square drive ratchet with a long tube socket be used with these fittings.
2. Installers are encouraged, through experience, to have a feel for the tightening torque required.
3. UPE universal flange adaptors are generally supplied assembled towards the top of their stated tolerance range and will generally not need to be loosened to fit most pipes. However, if the coupling as supplied will not fit over the pipe first ensure the correct coupling tolerance range is being used then loosen the bolts and pull the end ring and rubber seal away from the body so the internal circumference of the seal can expand.
4. In extreme cases of a tight fit the flange adaptor can be disassembled, the rubber seal lubricated, then the end ring and seal slid over the pipe end before reassembling the flange adaptor in-situ.
5. Conversely, if the pipe to be joined is at the bottom end of the flange adaptor tolerance, some pre-tightening of the bolts can be done outside the trench - use a pipe off-cut to ensure the coupling will still be able to slide over the pipe.



- | | |
|----|---------------------|
| A. | Bolt/Stud |
| B. | End Ring |
| C. | Flange Adaptor Body |
| D. | Rubber Seal |
| E. | Pipe |

Understanding Universal Flange Adaptors

First developed in 1974, UPE universal fittings have a wide tolerance range due to their innovative seal design. Instead of a simple 'O' ring that will only fit one pipe size, in section the UPE seal is wedge shaped and matched in profile to the flare on the end of the body. The diagrams above (fig 1. before tightening and fig 2. after tightening) show that as the bolts are tightened the seal is forced down the taper of the body until it seals against the pipe.

The function of the bolts is only to compress the rubber, for which M12 size, corrosion resistant bolts are adequate. (Bolts are Sheraplex coated Mild Steel or Stainless Steel).

Mains Connections for Rigid Pipes - 40mm - 300mm
UPE Universal Range

Universal Flange Adaptors

Installation Instructions for UPE Universal Flange Adaptors up to DN300

All UPE fittings are supplied ready assembled and pre lubricated allowing for efficient installation on site.

Preparation

Select the correct type and size of fitting for the situation and ensure that the pipe to be connected to is clean, round, free from deep scratches, scores or general imperfections that may prevent an effective seal. Ensure the relative angle between the pipe and the flange is as small as possible and in no case exceeds 4° .

Assembly Procedure

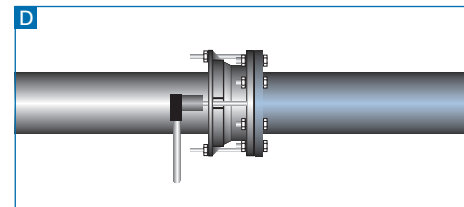
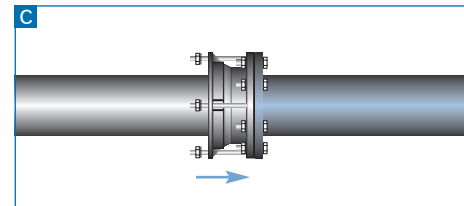
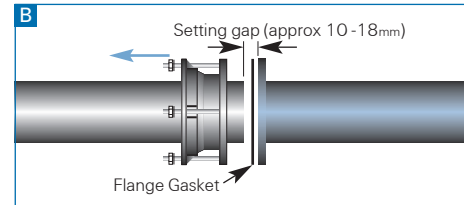
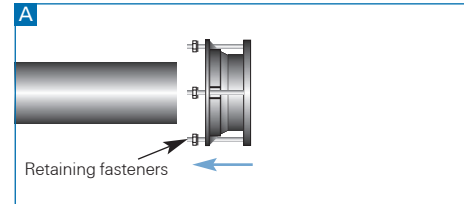
- A Slide the flange adaptor over the pipe to be connected
- B Line up the pipe end with the flanged pipe or equipment to be joined to and insert a suitable gasket between the mating flanges ensuring a setting gap of 10 - 18mm is maintained between the flange face and the pipe end.
- C Bolt the flanges together ensuring the gasket remains in place.
- D Tighten the flange adaptor fastening nuts in a diametrically opposed sequence to a torque of 55 - 68Nm (40 - 50 lb.ft)

NB

The pipe joint on universal flange adaptors is not fully end load restrained, please ensure adequate restraint is provided.

In addition to the above the installer should ensure relevant industry standards and codes of practice are followed.

Universal Flange Adaptors are not recommended for use on PE pipe.



Mains Connections for Rigid Pipes - 40mm - 300mm
UPE Universal Range