

Typical installation instructions

Initial Preparation

Clean the pipe surface free of scale and grit over the applicable length of the coupling and extending 100mm beyond. The mechanical ability of the coupling in sealing against the pipe surface is reliant on the cleanliness of the pipe surface

Ovality Check

Ensure that the pipe OD and ovality are within the specified tolerances of the coupling (± 3.0 mm).

The High Pressure Coupling IS a *DEDICATED OD* Coupling and therefore its ability to cater for irregularity and ovality in the pipe OD is limited

1

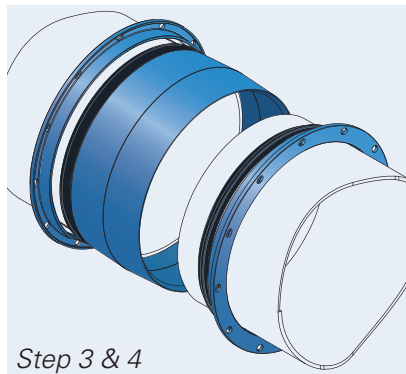
Place reference marks on the pipe ends to ensure the coupling can be located centrally between the pipes being joined. Allow for the recommended *pipe gap* (between 20 to 60mm) required between pipes

2

Lubricate the coupling gaskets *well* with a lubricant approved for use with potable water. Commonly used anti-bacterial pipe jointing lube is a suitable product for this purpose. The Nitrile Rubber gaskets can sometimes be a tight fit on the pipe surface and the lubricant will substantially assist this process as well as enable the gaskets to flow and seal onto the pipe much more efficiently

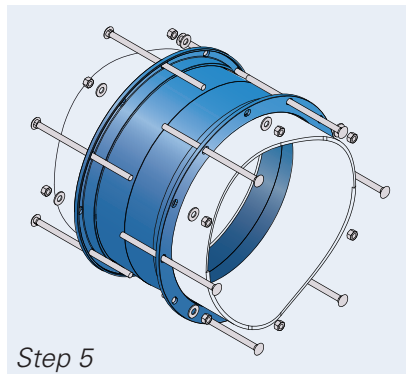
3

Dismantle the coupling and slide the end flanges onto the two pipes being joined followed by the lubricated gaskets, paying attention to the orientation of the gaskets (flat thick face towards the flange and flat lip towards the barrel)



4

Slide the centre sleeve onto the established pipe and insert the other pipe into the sleeve to a *recommended pipe gap* of between 20 to 60mm. A gap is recommended in order to avoid the build up of longitudinal stresses within the two pipes as a result of thermal expansion

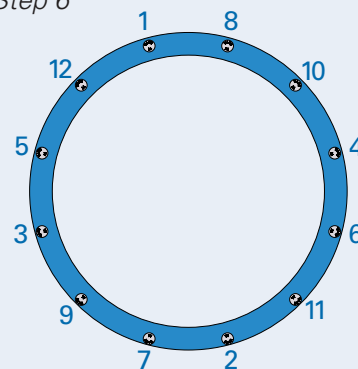


5

Bring flanges, gaskets and sleeve into contact and align the coupling centrally over the pipe gap, assisted by the pipe markings (see Step 1). Insert the bolts between the flanges and consecutively alternate between bolt heads and nuts on each flange face (see diagram above)



Step 6



Recommended torque settings

M12 bolts: 50 to 65 Nm
M16 bolts: 95 to 120 Nm

6

Commence tightening nuts in small increments in a diametric pattern (see diagram above). It is very important for the success of the installation that the coupling be tightened in small increments at each bolt, making sure that the two flanges are drawn-in uniformly and that the coupling remains centred and aligned on the pipe. *Use a torque wrench to achieve the final recommended torque indicated above*

7

It is **VERY IMPORTANT** that the bolts be *re-tensioned after 30 minutes* using the torque wrench in order to compensate for relaxation in the rubber gasket

8

Upon completion, visually check that the end flanges are centred and aligned on the pipe and that the rubber gaskets have uniformly extruded into the gap between pipe and flange rim