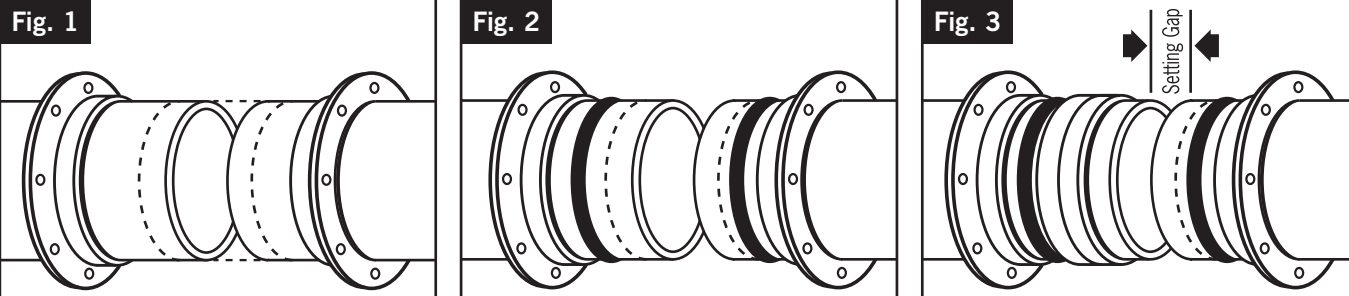


FLEXLOCK – COUPLING

FOR STEEL AND IRON DUCTILE IRON PIPE



1. Check that the pipe end is round, smooth, free from bulges, dents, loose surface deposits and score marks. For steel pipe ensure that weld beads are ground flush to correct surface profile. When used on coated steel pipe the maximum permitted coating thickness is 500 microns.

Ensure the pipe OD is in accordance with:

Steel Pipe: BS534: 1990 as defined for slip on couplings

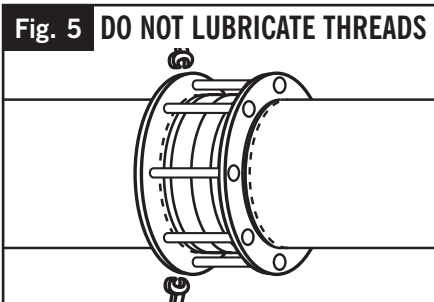
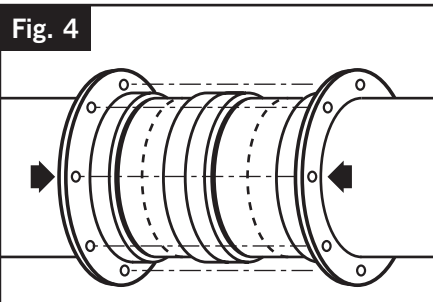
Ductile Iron Pipe: BS EN 545 spigot end

2. Align pipe to be laid with pipe already in position. Check pipes are concentric, adjusting supports or bed of trench if required.

3. Place end rings over pipe ends as shown. To aid installation, mark pipes half the sleeve width plus an end ring back from the pipe ends. Lubricate gasket with pipe jointing lubricant and stretch onto pipe ends with the thicker end towards the end ring.
4. Place sleeve onto pipe already in position. Adjust setting gap as required – 20mm is recommended for general usage. **(If pipe ends are axially fixed, or butt together locking may occur before sealing. Ensure pipe can move together during bolt-up).** If in doubt check with Viking Johnson Marketing Department. Centralise sleeve over pipe ends.

5. Push gaskets forward onto gasket chambers of centre sleeve, easing forward if teeth catch on pipe surface.
6. Push end rings forward into position and line up boltholes. Fit all bolts from the same side ensuring that D-necks locate in holes. Fit nuts and finger tighten.
7. Check coupling is central using marks made at stage 3. Tighten diametrically opposed bolts, giving the nuts one or two turns at a time to draw the end rings up evenly, working around the coupling as many times as necessary to achieve the required torque.

Important: Bolt torque on ALL bolts must be achieved. See below for level.



8. On completion, radial gap between pipe and coupling end rings should be even all round. Rubber may be seen to extrude into the gap.

NOTES

A) Maximum operating temperature for Flexlock is 40°C

B) Working Pressure

50-200mm

Maximum Working Pressure – 16 bar

Maximum Test Pressure – 24 bar

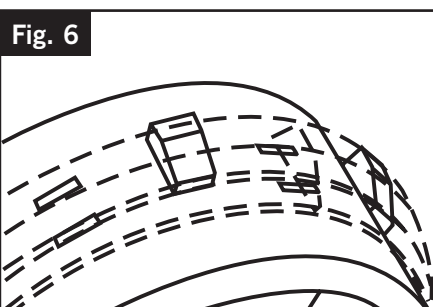
250-300mm

Maximum Working Pressure – 10 bar

Maximum Test Pressure – 15 bar

C) Setting gap - min / recommended 20mm Max 40mm.

THE FLEXLOCK GASKET IS NOT SUITABLE FOR APPLICATIONS IN EXCESS OF THESE PRESSURES. GASKET SHOULD NOT BE RE-USED.



NOTE: Use of a Flexlock product on a pipe produces indentation in the pipe surface at each tooth location. If a Flexlock product is used on a pipe that has these indentations, the following instructions must be followed.

- i) Metal build up left by the effect of the gripping teeth **MUST** be removed.
- ii) The gripping teeth of the new gasket **MUST NOT** coincide with the indentations left by the previous gasket. See Figure 6.

Failure to observe the above note could result in the Flexlock product being unable to retain its End Load capabilities up to its full rated working pressure.

**TORQUE ON BOLTS – M12 Bolt – 55-65Nm – MUST BE ACHIEVED
M16 Bolt – 95-100Nm – MUST BE ACHIEVED**



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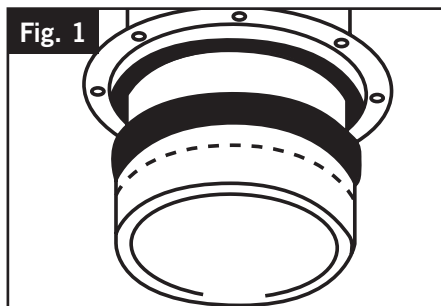
Fax: +44 (0) 1462 443311

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DR4509_11_2008

FLEXLOCK – FLANGE ADAPTOR

FOR STEEL AND IRON DUCTILE IRON PIPE



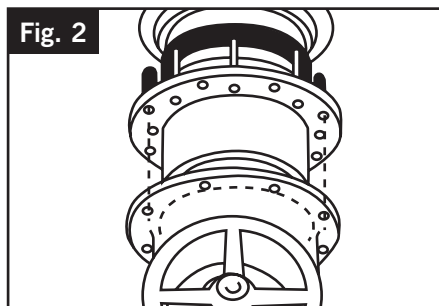
1. Check that the pipe end is round, smooth, free from bulges, dents, loose surface deposits and score marks. For steel pipe ensure that weld beads are ground flush to correct surface profile. When used on coated steel pipe the maximum permitted coating thickness is 500 microns.

Ensure the pipe OD is in accordance with:

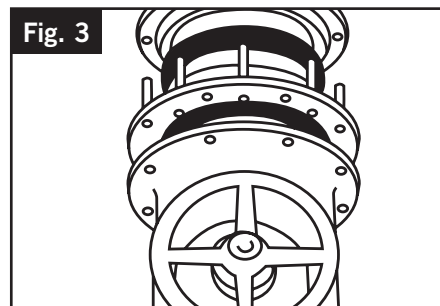
Steel Pipe: BS534: 1990 as defined for slip on couplings

Ductile Iron Pipe: BS EN 545 spigot end

2. Dismantle adaptor by removing end ring from studs, retaining the nuts. Place end ring onto pipe end with the gasket chamber facing the



3. Place adaptor body onto pipe. Adjust setting gap as required – 10mm is recommended for general usage. **(If pipe is axially fitted or butts with fixed flange, etc, locking may occur before sealing. Ensure pipe can move axially during bolt-up).** If in doubt check with Viking Johnson Marketing Department.
4. Fit mating flange gasket. Ensure that all components remain concentric during bolt-up.
5. Bolt adaptor body to mating flange using standard flange bolting procedures.



6. Push gasket forward into gasket chamber of adaptor body, easing forward if teeth catch on pipe surface.
7. Push end ring forward into position locating D holes over studs. Fit nuts and tighten diametrically opposed bolts, giving the nuts one or two turns at a time to draw the end ring up evenly, working around the adaptor as many times as necessary to achieve the required torque.

Important: Bolt torque on ALL bolts must be achieved. See below for level.

8. On completion, radial gap between pipe and adaptor end ring should be even all round. Rubber may be seen to extrude the gap.

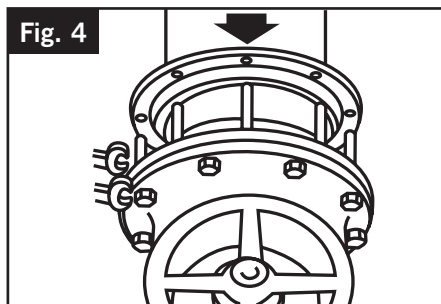


Fig. 5 DO NOT LUBRICATE THREADS

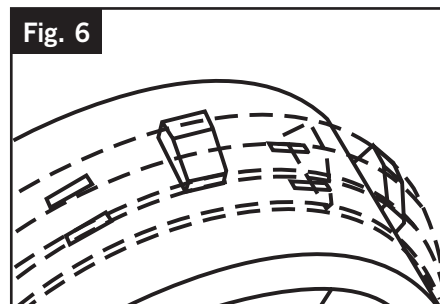


Fig. 7 RADIAL GAP TO BE EVEN

- A) Maximum operating temperature is 40°C
- B) **Working Pressure**
50-200mm
 Maximum Working Pressure – 16 bar
 Maximum Test Pressure – 24 bar
250-300mm
 Maximum Working Pressure – 10 bar
 Maximum Test Pressure – 15 bar

PN16 drillings are available in 250 & 300 sizes but product has a maximum working pressure of 10bar

- C) Setting gap - min / recommended 10mm Max 30mm.

THE FLEXLOCK GASKET IS NOT SUITABLE FOR APPLICATIONS IN EXCESS OF THESE PRESSURES. GASKET SHOULD NOT BE RE-USED.

NOTE: Use of a Flexlock product on a pipe produces indentation in the pipe surface at each tooth location. If a Flexlock product is used on a pipe that has these indentations, the following instructions must be followed.

- i) Metal build up left by the effect of the gripping teeth **MUST** be removed.
- ii) The gripping teeth of the new gasket **MUST NOT** coincide with the indentations left by the previous gasket. See Figure 6.

Failure to observe the above note could result in the Flexlock product being unable to retain its End Load capabilities up to its full rated working pressure.

**TORQUE ON BOLTS – M12 Bolt – 55-65Nm – MUST BE ACHIEVED
 M16 Bolt – 95-120Nm – MUST BE ACHIEVED**



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