

OPERATION & MAINTENANCE MANUAL



The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.

FITTING INSTRUCTIONS:

*All of the following procedures must be carried out with due regard to relevant **Road Traffic Act** Guidelines, **Health and Safety** and **COSHH** directives.*

Checks to be made prior to installation:

- 1) Confirm the actual outside Diameter of pipe ends to which the fitting is to be assembled.
- 2) Check that the pipe ends are smooth (free from dents, weld seams and score marks etc....)
- 3) Ensure that the sealing areas on the pipe ends are cleaned by wire brushing removing all scale, rust, protective coating and general debris etc...
- 4) Confirm that fitting to be assembled is fit for purpose with regard to type, pressure rating, sealing range, flange ratings and medium conveyed etc...
- 5) Ensure that working area is sufficient to allow comfortable access and installation.
- 6) Check that all necessary tooling is readily available, including torque wrench, box spanners, WRc approved lubricant etc...
- 7) Check that it has not been damaged during transit / storage.

Installation:

- 1) Dismantle gland ring and seal from flange adaptor assembly, ensuring that all components are kept clean throughout installation.
- 2) Slide gland ring, seal and flanged body over pipe end, ensuring that all components are facing the correct way for assembly process.
- 3) Position pipe end to be coupled, checking that it is level and concentric with the bore of mating flange, and that the correct setting gap is maintained:

DN 350 - DN 900	SETTING GAP = 25mm
DN1000 - DN1200	SETTING GAP = 36mm
- 4) Fit flange gasket.
- 5) Slide adaptor body up to mating flange and secure joint using standard procedure.
- 6) Lubricate sealing area on pipe thoroughly with an approved lubricant, then slide sealing ring into position, checking that the thick end is housed in the gland ring.
- 7) Slide gland ring into position, ensuring that the elongated holes line up with the studs attached to the flange. Fit nuts and washers and tighten to finger tight.
- 8) Tighten diametrically opposed studs, one or two turns at a time, to ensure that seal compression is evenly applied within the fitting. Work around the coupling until the recommended bolt torque setting of 40Nm is achieved.
- 9) On completion of bolt tightening, check that the flange adaptor is still correctly positioned and that the gap between the pipe and inside Dia of the gland ring is even all round.
- 10) It is advisable to recheck the torque settings overnight of initial assembly, in case of relaxation of the sealing elements.
- 11) Should the product be used in an aggressive (e.g. Salt laden) environment please ensure that there is sufficient secondary corrosion protection applied before backfilling.