



Encapsulate - Repair & Restore

➤ **Encapsulation Repair Collar**



DN80 to DN200



GB – INSTALLATION INSTRUCTIONS



PIONEERS IN PIPE SOLUTIONS



BUILDING SERVICES & UTILITIES



EasiFit Encapsulation Collar DN80-DN200

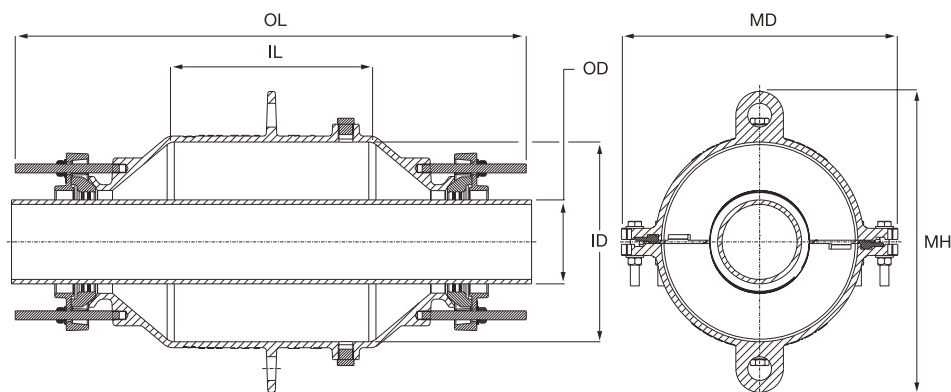


Table 1.

Nominal Diameter		OD Range (mm)		MD (mm)	MH (mm)	Internal Diameter (ID) mm	Internal Length (IL) mm	Overall Length (OL) mm	Bolts No. Dia x Length	Studs No. Dia x Length	Weight (Kg)
Inches	mm	Min	Max								
3"	80	87.9	101.6	347	376	233	258.6	686	12-M12 x 70	12-M12 x 140	37
4"	100	113	127	372	405	259	258.6	687	12-M12 x 70	12-M12 x 140	39
6"	150	163.9	180.6	451	482.5	335	296.7	750	12-M12 x 70	12-M12 x 140	60
8"	200	219	240.6	486.2	518	372.5	334.8	799	12-M12 x 70	12-M12 x 140	73

Preparation required prior to installation

- Check that the Joint, pipe material and size are suitable for the EasiFit fitting. Measure the outer diameter of the pipe adjacent to the leaking joint as this is where the EasiFit will seal onto the pipe; check that the diameter lies within the given range of the EasiFit as stipulated by "OD Range" in Table 1. Also check the footprint of the joint, ensuring that the length and diameter of the joint at the widest point do not exceed the chamber Internal Length "IL" and chamber Internal Diameter "ID" of the fitting.
- Examine the pipe ends adjacent to the leaking joint and ensure that the pipe surface is clean and free from score marks, scale, mud, rust or any loose debris or other surface defects that may affect fitting performance. Weld beads must be ground flush, maintaining correct surface profile.

Hazard Warning: Lifting lugs, where provided, are designed/tested for lifting only the product to which they are attached. Failure to follow these instructions could result in serious personal injury or death, or property damage. Ensure that you are trained, competent and familiar with the lifting appliance and accessories to be used. Ensure that the correct equipment is used and is marked with its WLL (Working Load Limit) or tables are available to determine the WLL. Ensure that you visually inspect the lifting gear and accessories before proceeding with the lift, discarding defective equipment. Ensure work is within the WLL for the equipment. Do not use equipment that is faulty, or operate it beyond the WLL. Equipment must be examined by a competent inspection engineer and re-certificated. Only undertake slinging and banksman's duties if you are competent and have been trained. This must be provided by a recognised training provider. Never walk underneath or slew a load over a person.



EasiFit Encapsulation Collar DN80-DN200

The EasiFit Encapsulation Collar comes pre-assembled and needs to be prepared before installing over the leaking joint.

- 1) Place the EasiFit on a clean surface for disassembly. Remove the nuts and washers from the studs on both ends; this allows the End Rings and split gaskets to be removed. Place all components to the side and retain. (FIG 1)
- 2) Remove the nuts and washers from the bolts on both sides of the clamp shells. The bolts will retain to one of the clamp shells. (FIG 2)

Separate the clamps and place all components to the side and retain. Ensure the internal surface of the clamp shells are facing upwards to prevent damage or contamination to the sealing areas within the clamp shells. (FIG 3)

- 3) Each of the two clamp shells contain a $\frac{1}{2}$ " BSP tapped outlet for attaching of bleeding equipment if required, remove the plugs and attach the equipment if necessary. (FIG 4a/4b)
- 4) Place one of the clamp shells underneath the leaking joint, you may require packing blocks to hold the underside clamp shell into position. **Please note that the bolts may be positioned in either orientation.** (FIG 5)
- 5) Place the other clamp shell on top of the leaking joint (use the lifting lug if required), align the BSP outlets to ensure that both are on the same side of the fitting (this is to ensure the seals are positioned correctly on both sides of the clamp); align the bolt holes on the clamps. (FIG 6a/6b)

Push each of the bolts through the holes of the opposing clamp shell and re-insert the washers and nuts loosely to secure into place.

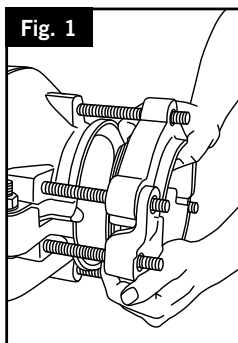


Fig. 1

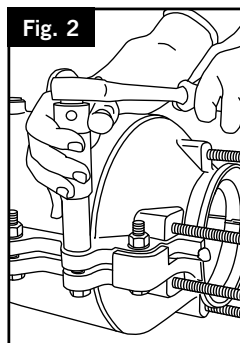


Fig. 2

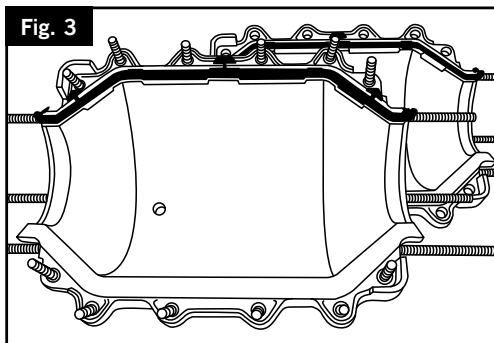


Fig. 3

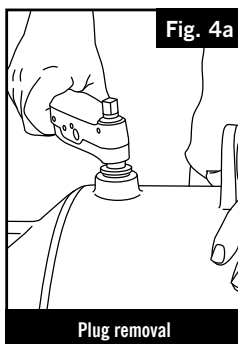


Fig. 4a

Plug removal

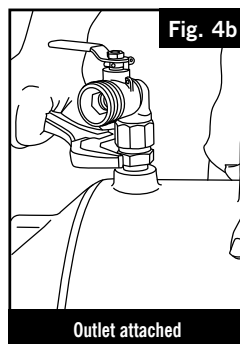


Fig. 4b

Outlet attached

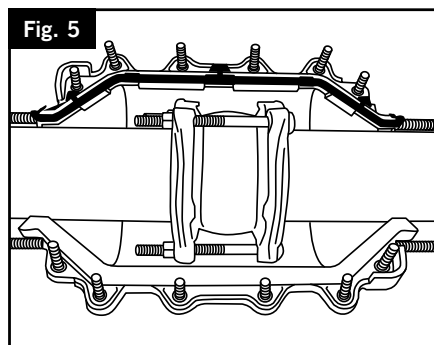


Fig. 5

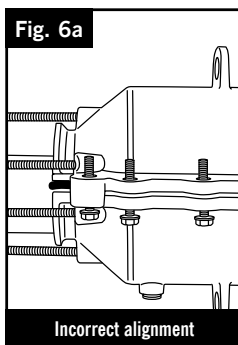


Fig. 6a

Incorrect alignment

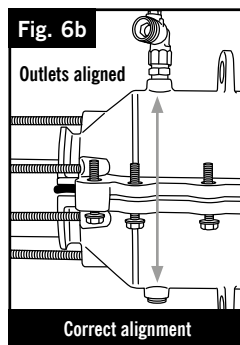
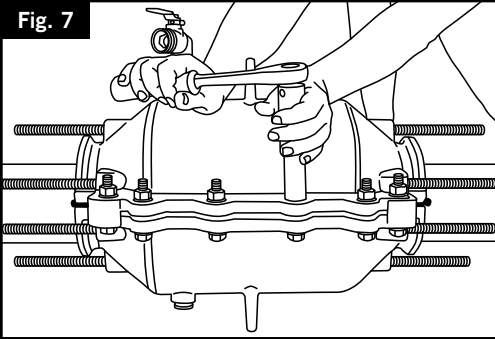


Fig. 6b

Outlets aligned

Correct alignment

Fig. 7



6) Tighten all the fasteners on the clamp shells to a torque of 80-100Nm. (Fig 7) Tighten the fasteners in the sequence shown (Fig 8).

7) Now take one of the split gaskets and wrap around the pipe on one side of the fitting; ensure the angled is adjacent to the EasiFit to ensure correct orientation for sealing. Also ensure that the split in the gasket aligns with the lifting eye (i.e. perpendicular to the joining area between the two clamp shells (Fig 9).

8) Take the overlapping end rings and place them over the ends of the studs, ensure that the split gasket is retained inside, loosely insert the washers and nuts onto the ends of the studs to ensure the split gasket and overlapping end rings are contained to the EasiFit. (Fig 10).

9) Repeat steps 7 and 8 with the split gasket and overlapping end rings on the opposite side of the EasiFit.

10) Tighten the fasteners on the overlapping end rings at both ends to a torque of 80-100Nm. Tighten each fastener gradually, one or two turns each time and diametrically opposite in the sequence as shown (Fig 11).

Fig. 8

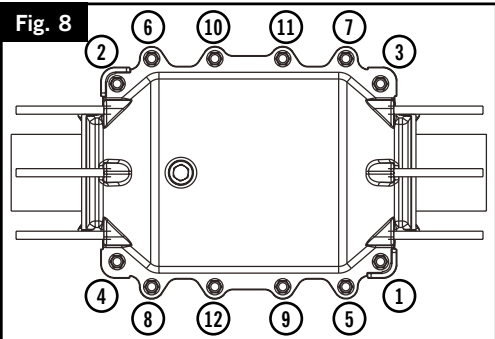


Fig. 9

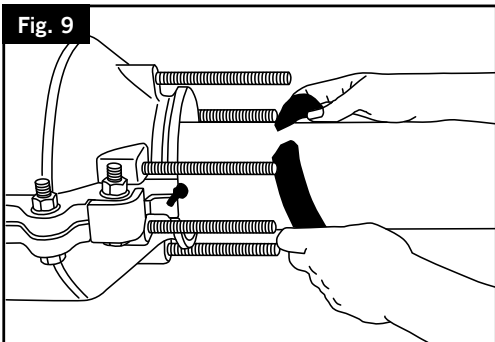


Fig. 10

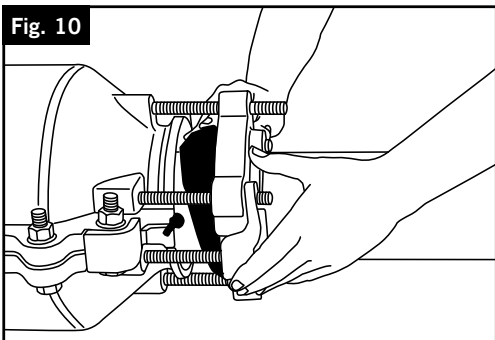
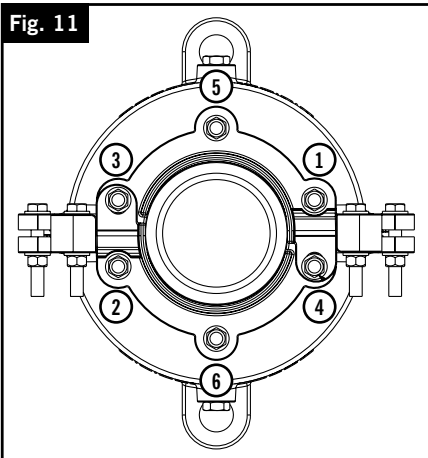
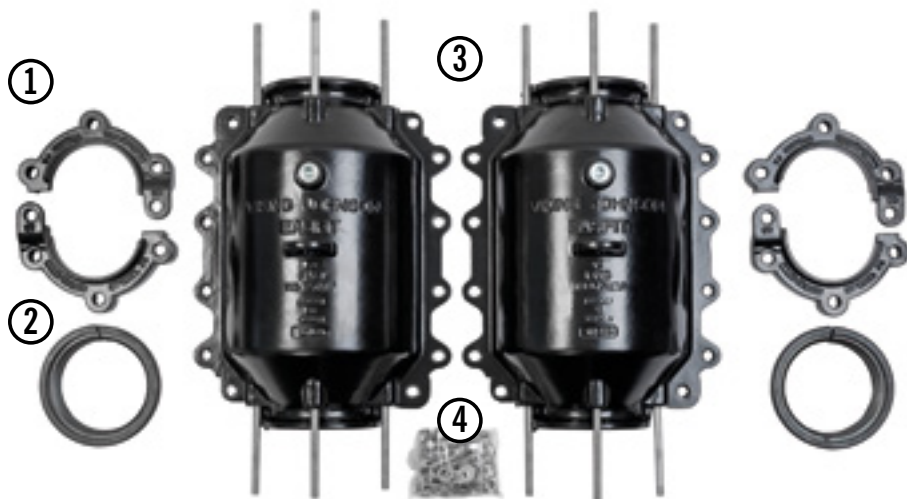


Fig. 11



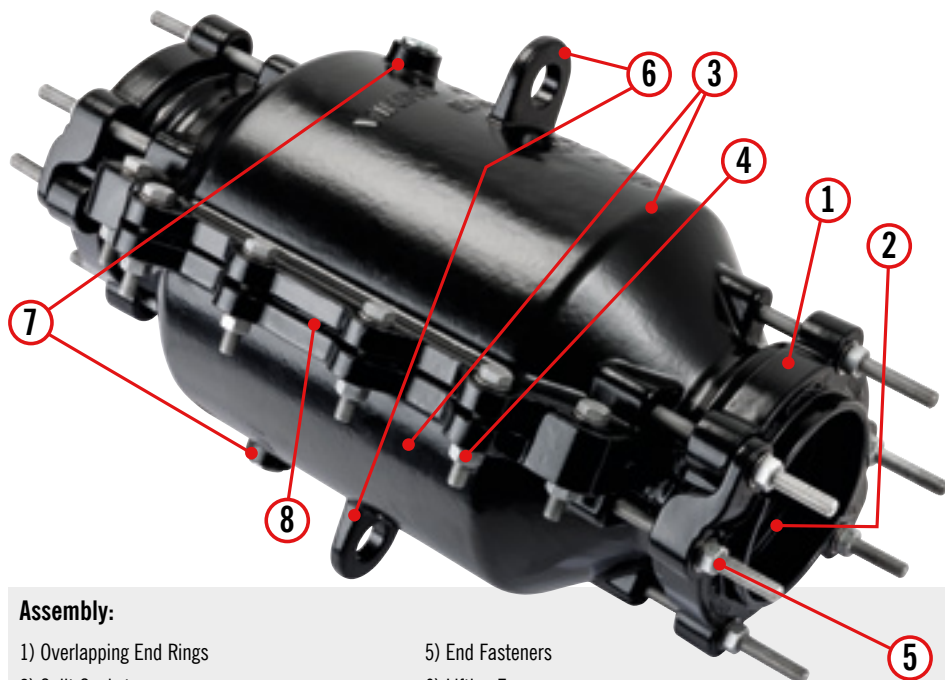


EasiFit Encapsulation Collar DN80-DN200



Components: 1) Overlapping End Rings
2) Split Gaskets

3) Clamp Shells
4) Clamp Fasteners



Assembly:

1) Overlapping End Rings
2) Split Gaskets
3) Clamp Shells
4) Clamp Fasteners

5) End Fasteners
6) Lifting Eyes
7) BSPT Outlets
8) Clamp Gaskets

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46-48 WILBURY WAY
HITCHIN,
HERTFORDSHIRE
SG4 0UD. UK

TELEPHONE: +44 (0)1462 443322
FAX: +44 (0)1462 443311
EMAIL: info@vikingjohnson.com
www.vikingjohnson.com

DR11851C_15_11_2025_REV01_R39/050CA

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