

Installation Instructions

KLINGERSil grade materials and graphite laminates use different fibres as a substitute for asbestos and consequently have different physical properties. Generally, more care is required during the selection of a suitable material and the installation of the finished gaskets.

1. Gasket Selection

The gasket material has to be chosen with many factors taken into account including the chemical compatibility, temperature and the pressure. If you have any questions about the selection of a suitable material please contact the Klinger Technical Services Department.

2. Gasket Thickness

Gasket material should be as thin as possible. Increasing the thickness of the material decreases the load-bearing capacity of the material. Thinner materials also have better torque retention characteristics.

3. Flange Condition

Ensure all remains of old gasket materials are removed and the flanges are clean and in good condition.

4. Releasing Agents

Ensure all soft cut gaskets are installed in a dry state, the use of jointing compounds is not recommended. Releasing agents such as grease or oil containing compounds are not required and can adversely affect the material, lowering the torque retention properties. To aid gasket removal Klinger materials have an anti-stick finish.

5. Gasket Dimensions

Ensure gasket dimensions are correct. The gasket should not intrude into the bore of the pipework and should be installed centrally.

6. Bolt Torquing

Clean and lubricate bolts and nuts and ensure that the nut can be freely run down the threads. Any debris on the threads can affect the final clamping load applied to the gasket.

Carefully install the gasket taking care not to damage the material surface.

A minimum of three tightening passes should be used plus an additional pass in a clockwise sequence.

Torque should be applied the bolts using a correctly calibrated torque wrench in a diametrically opposed sequence as shown in the diagram below:

