

# ThermoPack

## Flange Gasket installation procedure.

### 1. Introduction.

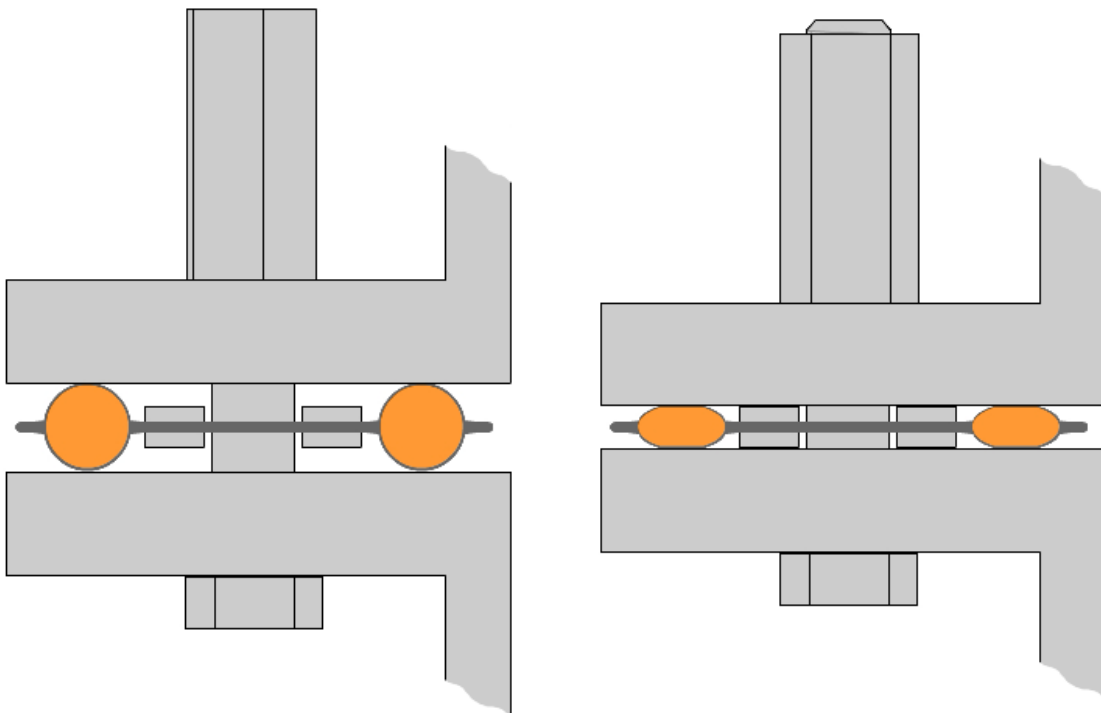
Thermopack is a flange gasket specially developed for Gas turbine Exhaust Ducting.  
The gasket is manufactured from heat resistant steel alloys.

The gasket concept is made to secure that correct flange clamping load is achieved, by the introduction of a spacer washer inbetween the flanges.

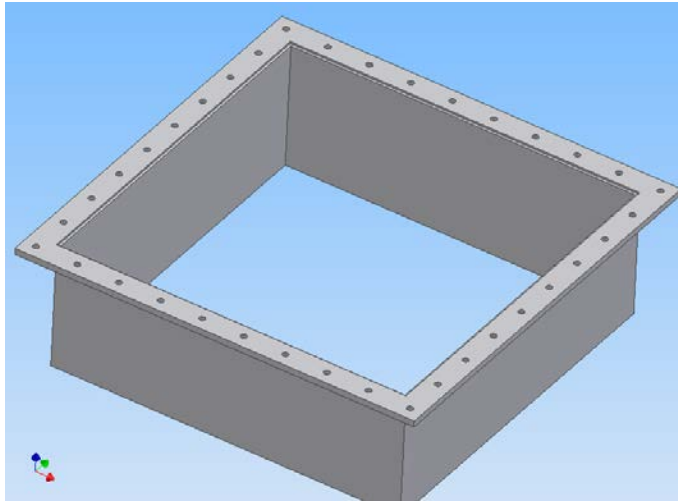
The spacer washer prevents crushing of the gasket, being a typical problem for traditional ceramic fiber and glass fiber gaskets.

The spacer washer also secures a stiff bolt connection, meaning steel to steel contact through the bolt connection, allowing for a correct pre-tension of the bolt.

The general instruction is shown as a square ducting. The same procedure will apply for a circular duct.



## 2. Preparations for gasket installation.



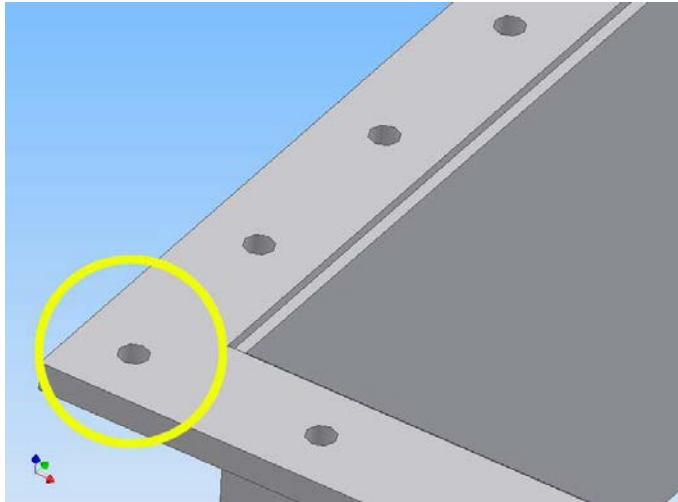
**Fig. 1: Prior to gasket installation:**

- Clean flange faces for weld spatter, scaling and particles.
- Surface deformations and chips to be removed.
- Verify that flange faces are aligned.

## 3. General installation instruction.

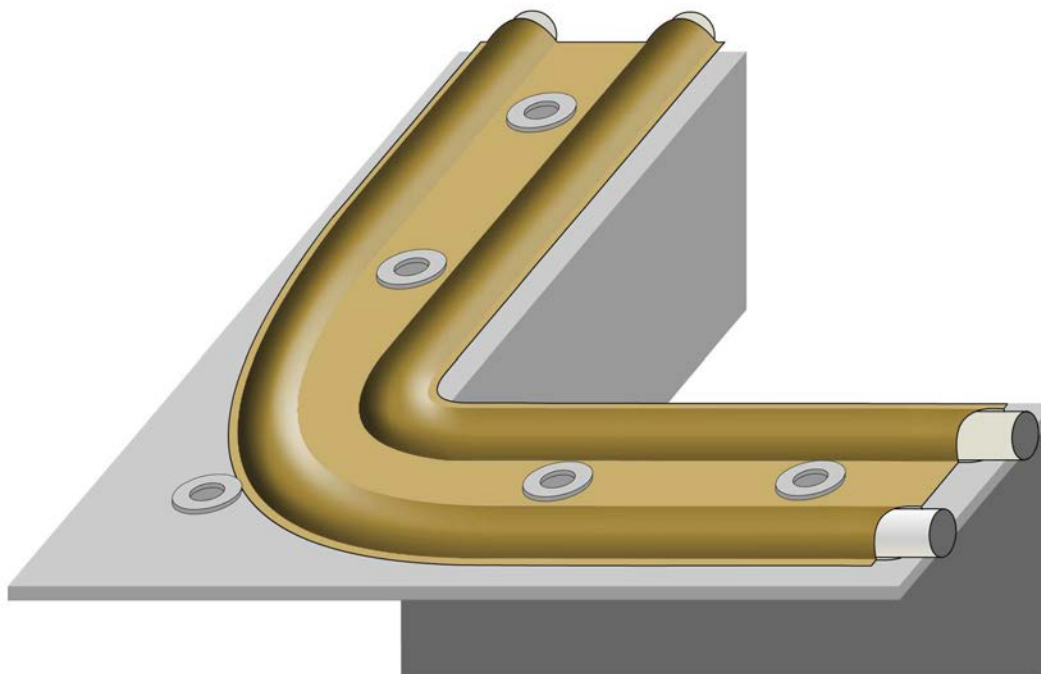
- The gasket is supplied in one length, with no pre-cut holes for bolts.
- The gasket is supplied with loose spacer washers.
- Install the gasket to the flange face. To ease the installation, the gasket may be fixed to the flange by tape. Remove tape after final assembly.
- The cutting of holes in the gasket may be made by knife, hole puncher, or scissors.
- Locate the spacer washer between the flanges, and align the washer to be penetrated by the bolt.

### 3. Typical corner.



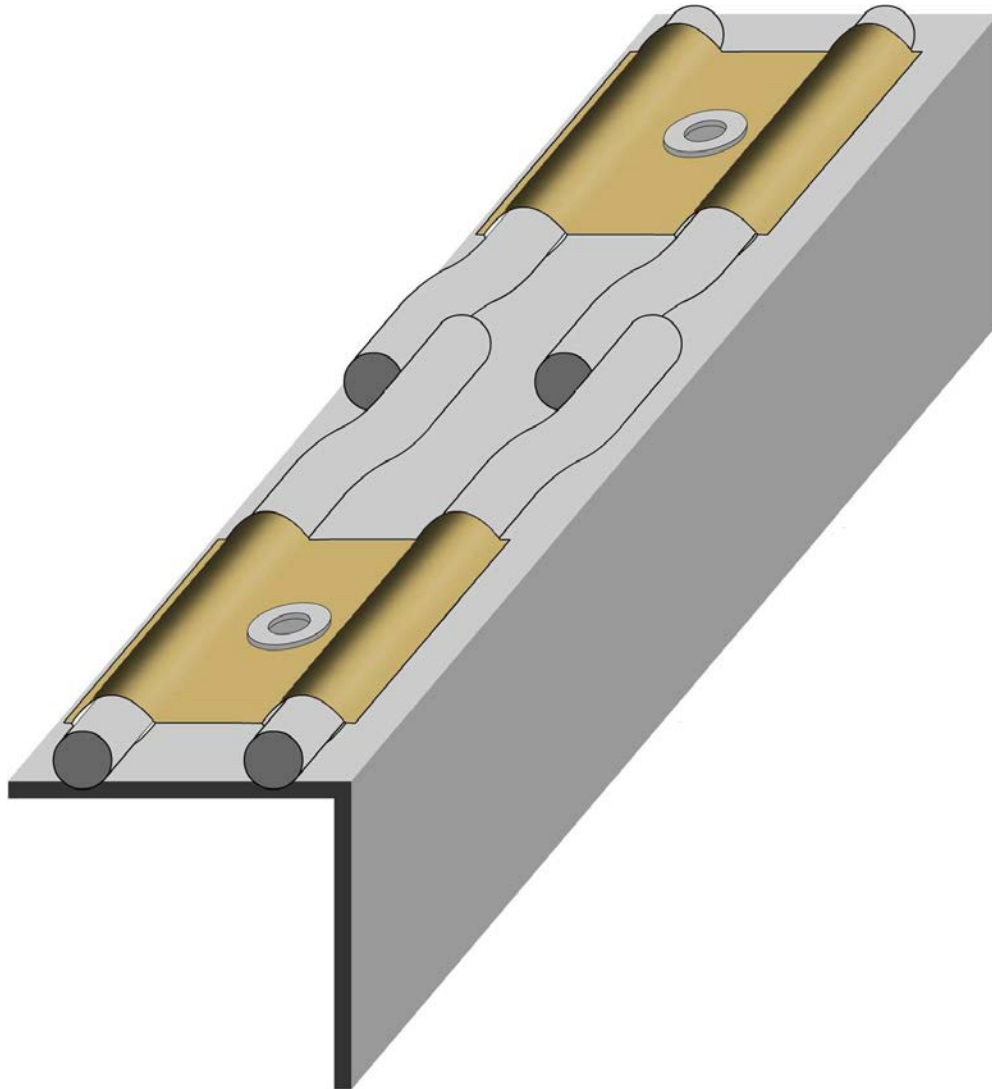
**Fig. 2: Corner bolts.**

- For square flanges, a corner bolt will assist in achieving optimal sealing.
- If missing, drilling of corner bolt holes is recommended, ref. Fig. 2.
- Install the spacer washer also on corner bolts.
- For square shaped flanges, bend the gasket as shown in Fig. 3.



**Fig. 3: Typical Gasket corner assembly.**

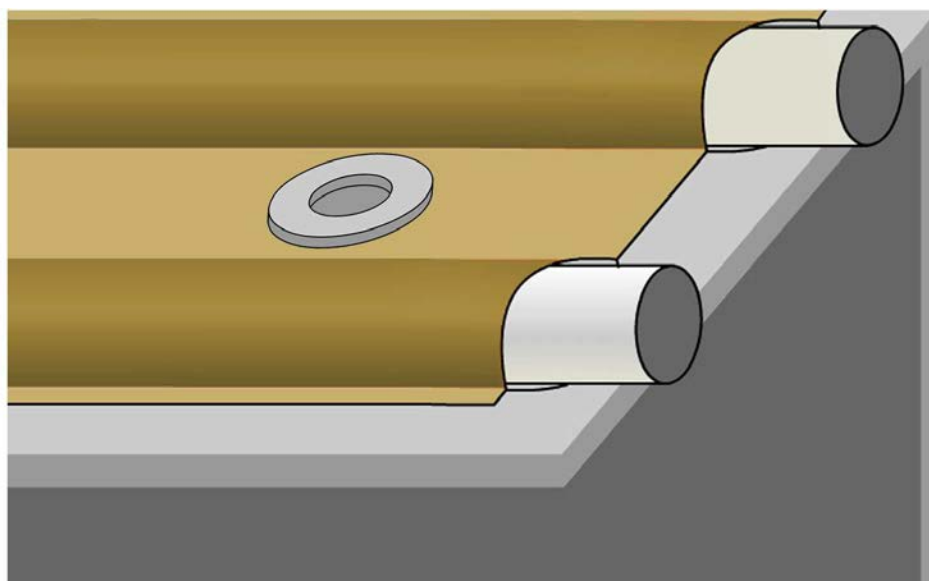
#### 4. Gasket end jointing.



**Fig. 4: Gasket end jointing.**

- Remove gasket jacket in both gasket ends.
- Arrange gasket seal ropes as indicated in fig. 4.
- Joint to be made between bolts.

## 5. Spacer washers.



**Fig. 5 : Spacer washer..**

- The spacer washers are supplied loose with the gasket, and is recommended installed.
- For flange thickness less than 3/8", the gasket may be installed without spacer washers.

## 6. Pre-tensioning of bolts.

- Pre-tension the bolts according to applicable procedure.



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