

Installation Instruction

KWO® Universal ePTFE Seals-Seals are supplied on individual spools.

Before installation select the appropriate seal type by referring to the dimension recommendation.

Always handle the seals carefully without squashing, damaging or making them dirty.

Installation procedure

Sealing surfaces should be cleaned of old sealing materials and then checked for damage.

After the sealing surface is cleaned so that it is fat-free, the new seal can be positioned to the middle of the sealing surface.

By application of the seal progressively remove the adhesive protective tape, because if too much is removed and the adhesive surface becomes dirty or damaged, this could cause misplacement of the seal during assembly!

An endless type seal is achieved by an overlap adjacent to one of the bolt holes (see drawing).

The cut should be made 1 cm away from the overlap.

The sealing material can be cut by using a sharp knife or scissors.

During assembly the flange bolts should always be tightened evenly in stages (e.g. 20%, 70%, 100% of the recommended torque).

For the recommended tightening sequence, please see drawings opposite.

Up to reaching the maximum working temperature, the flange bolts should be tightened at regular intervals.

Uneven Surface

If the surfaces are so uneven or damaged that the remaining thickness of the seal is not sufficient to take out the unevenness, a second layer of sealing material in same size or one size smaller can be stuck on the first layer.

Recommendation for dimension

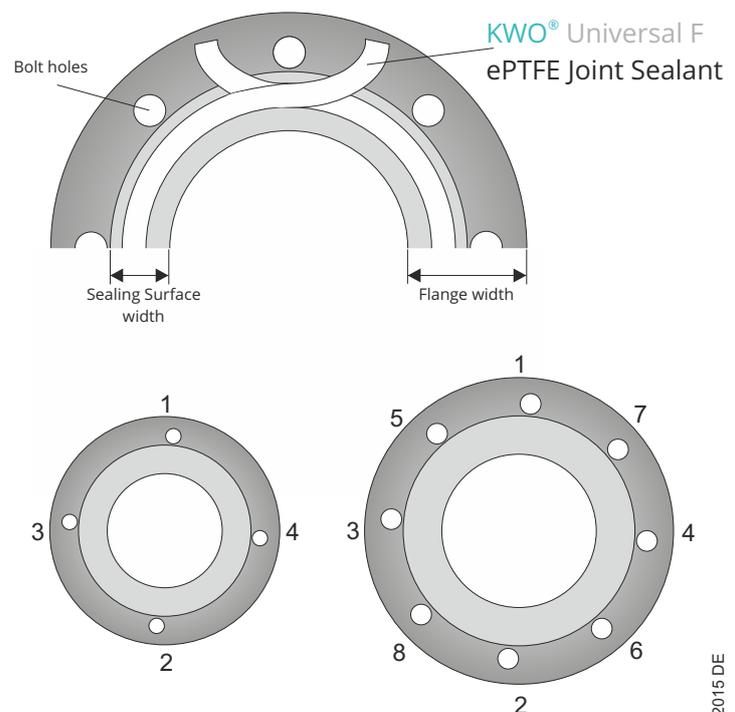
The correct choice of the seals dimension depends on factors like width and composition of sealing surface, on construction of flange and bolts as well as on the existing operating conditions.

Rule of thumb: Seal width should be approx. 1/4 to 1/3 of the sealing surface width.

Gasket stress

To guarantee correct sealing for each type of joint during operational conditions, specific surface pressures have to be met.

For steel flanges it is recommended that a minimum surface pressure of $Q_s = 5 \text{ MPa}$ during operation should be attained. For gasket stress data at various temperatures and pressures please refer to the diagram opposite.



Technical support

for any open questions please contact our technical Support team.