

Installation instruction

KWO[®] Universal HD



08/2019-EN

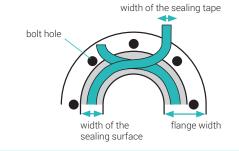


1. Selection of sealing width

a. For flanges with and without raised face

Please select the nominal width of KWO[®] sealing tape from the table.

b. For tongue and groove flanges: The width of the sealing tape should be equal to or less than the groove width.



2. Installation

2.1 Installation – sealing tape with nominal width of 4 and 6 mm: (overlap)

a. Preparing the flange

- Open the flange connection by a minimum of 15 cm.
- Sealing surface should be cleaned of old sealing materials and checked for damage.

b. Applying the sealing tape

- Remove the masking tape a little at a time to prevent the adhesive strip from picking up dirt. A dirty or damaged adhesive surface could cause a misplacement of the sealing tape during assembly.
- Position the start of the sealant tape close to a bolt hole (figure 1).

c. Closing the sealing tape

- Complete the installation by overlapping both ends at the starting bolt hole.
- Use a sharp knife or a pair of scissor to cut away the excess material, leaving 1 cm protruding material (figure 2).

2.1. b Apply the sealing tape

2.1.c Close the sealing tape



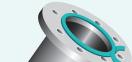


Figure2

Effective sealing width (mm)	Sealing width of KWO [®] Universal HD (mm)
< 10	4
10 - 20	6
20 - 30	8
30 - 40	10
> 40	14

Note: Gasket stress

To guarantee a correct sealing an engineering torque estimation is recommended. Our technical support team will gladly assist you in determining this.

Note: When the sealing tape has a nominal width of \ge 9 mm the skive cut technique must be used since there is not enough force to compress the double thickness of the overlap joint. The skive cut technique can be always used as an alternative to the overlap technique if you are uncertain.

flanges without raised face

A

fragile flanges – Option 1: To prevent the inclined position of the flange



Container lid



flanges with raised face



fragile flanges – Option 2: To minimize the inclined position of the flange



Tongue andgroove



To ensure proper gasket compression, the tongue mus be equal to or taller than the groove depth.

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KWO[®] Universal HD



2.2 Installation – sealing tape with nominal width of 8, 10 and 14 mm: (skive cut)

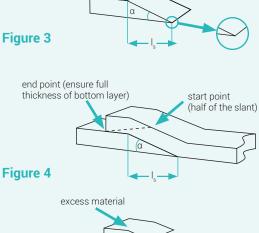
Perform step 2.1.a and 2.1.b but with a skive cut on both ends.

- a. Skive cut at the beginning
 - Unwind around 0,5 m of the sealing tape and cut the end with a sharp knife by using the skive cut technique \rightarrow length of the skive cut (I_s) = approx. 25 mm, angle α < 15° (figure 3).

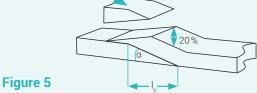
b. Closing skive cut

- Complete the installation by placing the sealing tape over the skived end and overlap approx. 14 mm of the sealing tape.
- For the second skive cut mark the start and end points (figure 4).
- Cut away excess material with an angle of 15 degrees. The interface should be 20% thicker than the original sealing tape (figure 5).

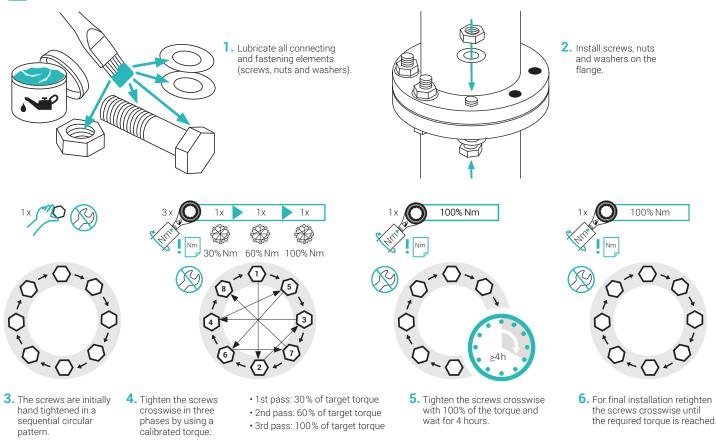
Note: By the selection of the tightening torque please follow the recommendations of the device manufacturer.



sealing tape



3. Torquing



For further details on gasket installation, please refer to the ESA/FSA Guidelines for safe seal usage – Flanges and Gaskets, available from the Fluid Sealing Association and the European Sealing Association.



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