monoFlon®

Joint Sealant Style KW

"The Power Plant Tape" - reinforced ePTFE-Tape

Style KW - Gasket Tape consists of high density expanded PTFE, reinforced with inorganic fillers.

Due to the special treatment the material is very homogenous. The high grade borosilicate glass filler is highly resistant to current chemicals and makes **Style KW** an ideal gasket even in the higher pH range.

The filled ePTFE has much better sealing and creep characteristics at higher temperatures, compared to standard monodirectional ePTFE Sealing Materials - specifically on flanges with higher unevenness.

The dense fibrous structure of **KW Gasket Tape** gives the material lower cross-sectional porosity and with this better sealing characteristics.

For easy installation the gasketing has an adhesive backing and can also be assembled on vertikal sealing surfaces.

Typical Applications

Components
specifically for components in caloric power plants, like pre-heaters or other heat exchangers, also with higher unevenness or corroded sealing surfaces

Flanges
steel flanges

Media
suitable for the sealing of pipeline and apparatus flanges with aggressive media in the range of pH 1 to 14

Approvals and Certificates

- EU 1907/2006 (REACH) with Annex XVII and it‘s amendment
- DIN EN ISO 9001:2015 (certified by TÜV Süd)

Key Features

- highly adaptable
- chemically inert from pH 1 to 14
  (for use with alkali metals and elemental fluorine ask our technical service)
- easy and quick installation
- highly tight
- broad field of application
- no "baking" to the flange
- easy to remove
- universal sizes - low stocking costs

Technical Data

Material	100 % pure, multidirectionally expanded PTFE (ePTFE)
Temperature Resistance of the Sealing Material	-240°C to +270°C, intermittent to +315°C
Chemical Resistance	Chemical resistance to all media pH 0 to 14, except molten alkali metals and elemental fluorine
Recommended Application Range	Vacuum up to 68 bar (1000 psig) depending on the installation parameters

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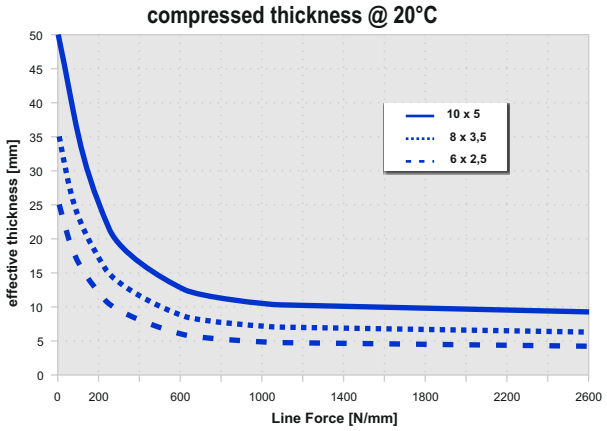
Characteristics



Tape Sizes and Spool Lengths

Size [mm]	Spool Length		
	10 m	25 m	50 m
6 x 2,5		X	X
8 x 3,5	X	X	X
10 x 5	X	X	X

Choice Recommendation

Size [mm]	Sealing Surface
6 x 2,5	< DN 500
8 x 3,5	DN 500 to DN 1000
10 x 5	> DN 1000

Installation

Completely clean the sealing area and remove any dirt, corrosion, oil or leftover from old gasket material.

With KW-Gasket Tapes always apply skiving technique (see fig.1).

Cut one ending of the sealing tape and remove just a little of the protecting paper.

Place the tape at the nearest possible position next to the bolts, starting next to a bolt hole.

Fit the gasket around the entire flange circumference and close the endings as shown in figure 1.

Overlap and skive the endings according to the recommended overlap length. Cut off the excess, tapering to the end, leaving a total thickness of approx. 120 %.

At least 4 progressive torque sequences with a torque wrench, in a star of 180° (fig. 2), should follow the first torque by hand.

Lastly perform a circular torque to check and ensure a tight and long-lasting seal.

Assembly with skiving technique

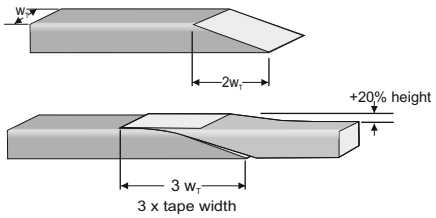


fig. 1

Torque Sequence

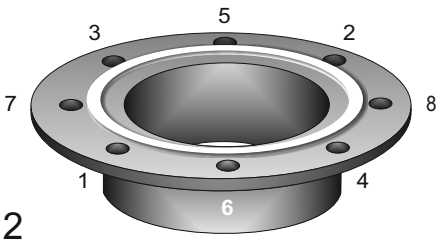


fig. 2

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company.
Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the on site operating conditions.

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