KINGEN Co., LTD

KAMMPROFILE GASKET

A gasket with simple production, excellent sealing performance and low bolt stress requirements

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Rev.2209-XY-K

(Semi)Metallic Gasket

Kammprofile Gasket

KAMMPROFILE GASKET *Description*

Since Kammprofile Gasket was developed in Germany over 50 years ago, it has been providing reliable seal in a wide range of applications globally.

Advantages

- Handles pressures from vacuum to Class 2500Lbs
- Compressibility, low stress
- Seals less-than-perfect flanges

Kammprofile Gasket is comprised of a serrated solid metal core, and a soft sealing material bonded to each face. Metal core provides rigidity and blowout resistance. Sealing material provides low stress gasketing seating.

KAMMPROFILE GASKET *Materials*

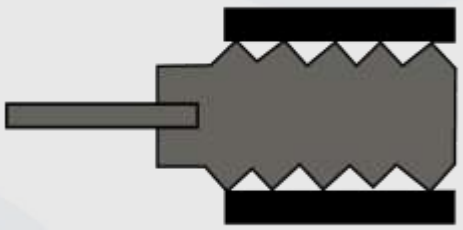
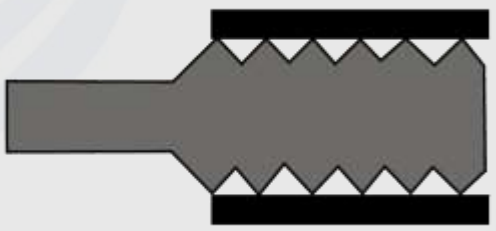
CORE MATERIAL		
Carbon Steel	SS316Ti	Inconel 825
SS304	SS321	Hastelloy C276
SS304L	Inconel 600	Monel 400
SS316L	Inconel 625	S31803
SS410	Inconel 800	Titanium Gr2

SEALING MATERIAL	MAX. TEMPERATURE	SEATING STRESS AT ROOM TEMPERATURE	
		MIN.	MAX.
C.N.A.F	250℃	17Mpa	270Mpa
Graphite	450℃	17Mpa	270Mpa
PTFE	260℃	17Mpa	270Mpa
Mica	1000℃	17Mpa	270Mpa

Notes

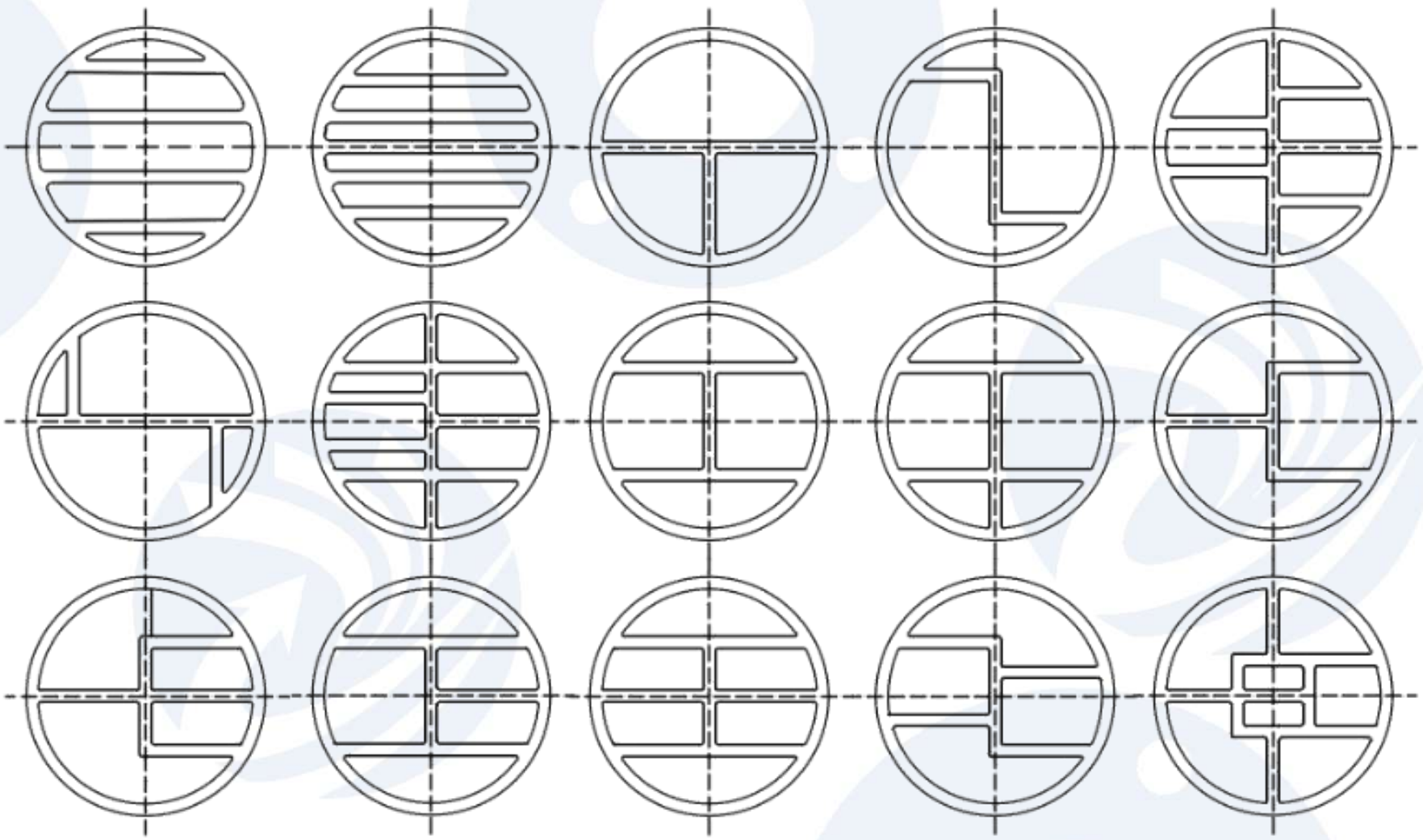
- **Selected materials should be compatible with operating temperature and chemicals.**
- **In addition to the materials listed in the table above, other special materials are also available, please contact our technical staff.**

KAMMPROFILE GASKET *Selections*

SEALING ELEMENT TYPE **XY-K-K**		XY-K-K is used in confined locations like male and female, tongue and groove flanges faces.
FLOATING OUTER RING TYPE **XY-K-H**		XY-K-H is added a floating outer ring to XY-K-K. The floating outer ring allows for expansion and contraction during thermal cycling.
INTEGRAL OUTER RING TYPE **XY-K-G**		XY-K-G utilizes an integral outer ring for correct position in flange. It is recommended for use in raised face and flat face flange.

KAMMPROFILE GASKET *Shapes*

According to the different sealing surfaces of heat exchangers, we can provide customers with various rib-type heat exchanger gaskets.



Note

Production is not limited to the above rib type. Other rib type an be produced according to drawings.

KAMMPROFILE GASKET *Availability*

Standard Thickness

Standard core thickness is 3.0mm, for special applications we recommend increasing the thickness to 4mm and above.

Standard sealing material thickness is 0.5mm or 0.75mm.

STANDARD	
HG20611	HG20632
ASME B16.20	DIN2691
EN1514-2	BS10
JIS B2404	

Gasket “M” & “Y”

Stainless steel core with flexible graphite facing：

M=4　Y=1000psi

About Standard

In the table on the left are the common Kammprovile Gasket standards. In addition, non-standard gaskets can also be produced according to drawings and sizes.

Stocks

KAMMPROFILE GASKET *Installation*

In order to make the gasket have better sealing performance and longer service life, it is not only necessary to correctly select the type and material of the gasket, but also to install and maintain the gasket correctly.

Below guidelines are designed to assist the end user in install a gasket.

Gasket	● Use a new gasket ● Check the gasket is in good condition and the size is correct for the flange ● Do not apply any joint compound, grease or lubricant to gaskets and flanges
Flange	● Remove the old gasket and check that the flange faces are clean and free from indentations and scoring ● For Kammprofile Gasket, a surface finish between 3.2μm to 6.4μm is recommended ● Check the flange faces are parallel or the flanges allows to be pulled parallel and concentric without excessive bolt loads
Bolting	● Clean every bolts and nuts. Apply bolt lubrication to threads an faces. ● When installing the bolt and nut, make sure the back face of the flange is flat. If necessary, use a file or wire brush to clean the surface ● If possible use washers to transfer the bolt loads
Installation	● Ensure that the gasket is installed centrally ● It is recommended that using torque wrench to tighten bolts ● Tighten bolts in a star-like crossing pattern。①Tighten nuts by finger ②Tighten to 30% load ③Tighten to 60% load ④Tighten to full load ⑤Make a final tightening sequence