

SEMI METAL GASKETS

KAMMPROFILES

Service parameters

T (°C)	-200 ÷ +950	500*
P _{max} (bar)	420	100*
Q _{max} (MPa)	600	200*

Widely used in:

Power industry, chemical, petrochemical; high-pressure or high-temperature fixtures, dangerous substances, high external load, inflammable and toxic substances, etc. Those gaskets have become a basic solution in process installations especially within the last ten years. Their growing popularity results from increased tightness and reliability requirements.

Custom styles:

- with non-standard groove depth and profile
- with different gasket's sealing area (styles with centring rings) according to norm EN-1514
- in PTFE or silver jackets for chemical applications
- with locating lugs for easy installation
- concentrically joined with spiral wound gasket
- with different kinds of bars, e.g. MPL® 23, MWK® 10, MPL® 10, MPL® 12
- other than round shapes, e.g. rectangular
- other materials on request

General information

Availability:

- DIN2697, EN-1514-4, EN 1514-6
- EN-12560-4, EN 12560-6, ASME 16.5, ASME 16.20

Ordering:

- for gaskets obeying EN 1514-4, EN 1514-6, DIN 2697, please indicate the symbol, material, full thickness (of the core and the caps), DN, PN, the standard number, e.g. SPETOMET® MWK® 60 316L/Sigraflex® APX, 4 mm, DN 50 PN 40, EN 1514-6
- for gaskets obeying EN 12560-4, EN 12560-6 please indicate the symbol, thickness, DN, CLASS, the standard number, e.g. SPETOMET® MWK® 60 316L/PTFE, 4 mm, DN 50 CLASS 150, EN 12560-6
- please provide the dimensions or a drawing of non standard gaskets, and possible specific requirements, e.g. "for oxygen"

If full data is not provided, standard gaskets will be produced:

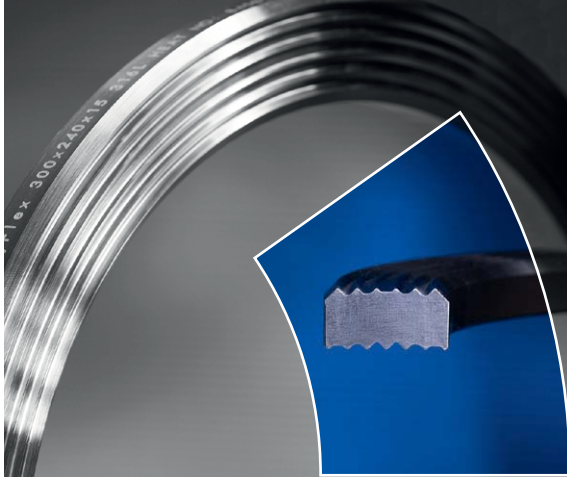
- default standard: EN 1514-6 (DN and PN):
EN 12560-6 (DN/NPS and CLASS)
- default thickness: 4 mm (3+2x0.5)
- default material of the core/caps: 316L/FG-C

Materials available

For wide range of materials available please look into "Common Used Materials" table.

* – please contact SPETECH if the specified values are higher

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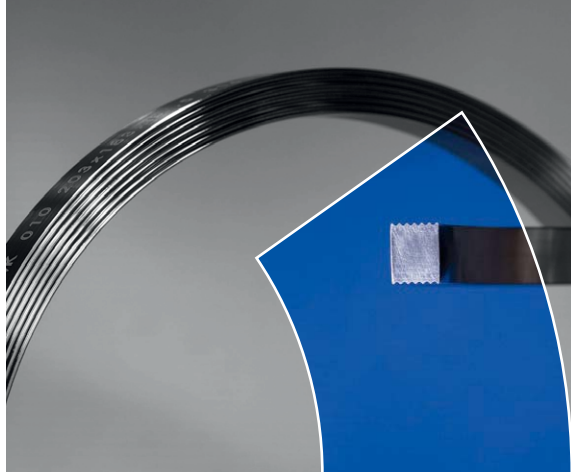


KAMMPROFILES SPETOMET® MWK®

Designation	Sketch	Description
DryFlex®**		<p>Third generation of a kammprofile gasket! Three-factor flexibility effect: super flexible sealing element; flexible sealing element assembly in the centring ring and use flexibility – one gasket for one DN diameter, regardless of the PN marking. The DryFlex® gasket was designed as a high quality industrial gasket, combining the advantages of soft-material gaskets and metal gaskets, to be used in industrial pipelines and in machines and heat exchangers.</p>
DryFlex® LR		
DryFlex® IR		
DryFlex® NR		
SPETOMET® MWK® 10		<p>SPETOMET® MWK® 10 is a conventional kammprofile gasket with the grooves of the same depth; the gasket is applied first of all in tongue and groove flanges, less frequently in male and female flanges; recommended width of the MWK® 10 gasket should not exceed 15 mm due to uneven radial distribution of contact stresses; maximum outer diameter of the gasket – 5000 mm. The SPETOMET® MWK® 10 Z with a loose centering ring, due to increased safety requirements, this type is recommended instead of traditional MWK® 20 type.</p>
SPETOMET® MWK® 10 Z		
SPETOMET® MWK® 15**		<p>SPETOMET® MWK® 15 is a gasket recommended for wide flange faces (for the width >20mm); the grooves of the gasket have different depth which results in the even radial distribution of contact stresses and protect it from being overloaded on the outer circumference of the gasket.</p>
SPETOMET® MWK® 18		<p>SPETOMET® MWK® 18 is a gasket used in the same applications as styles SPETOMET® MWK® 10 and MWK® 20. Different depths of the grooves result in the built up of the contact stress in the middle of the gasket's width which increases its blowout resistance and sealability.</p>

** – patented

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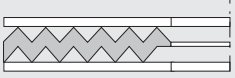
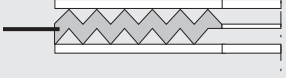
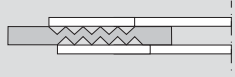
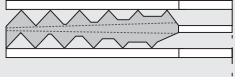
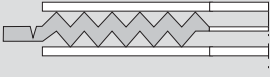
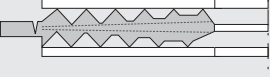
KAMMPROFILES SPETOMET® MWK®

Designation	Sketch	Description
SPETOMET® MWK® 20		SPETOMET® MWK® 20 has the sealing element exactly the same as that of MWK® 10, with additional outer centring ring; integral centring ring of thickness 2 or 3 mm, manufactured in traditional technology; at present in order to meet the increased safety standards this style is replaced by MWK® 21; MWK® 22 is the style for similar applications but with the special centring ring.
SPETOMET® MWK® 21		SPETOMET® MWK® 21 gasket with the centring ring that has a pre-determined breaking groove – when the joint fails and the medium escapes abruptly from the system the vibrations of the gasket occur – in these circumstances the gasket “breaks” on the groove and centring rings falls out.
SPETOMET® MWK® 25**		SPETOMET® MWK® 25 has the same profile as MWK® 15 but with the centring ring; the ring has a pre-determined breaking groove which increases its blowout resistance.
SPETOMET® MWK® 28		SPETOMET® MWK® 28 has the same profile as MWK® 18; its centring ring has a pre-determined breaking groove increasing gasket’s blowout resistance.

** – patented

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KAMMPROFILES SPETOMET® MWK®

Designation	Sketch	Description
SPETOMET® MWK® 50**		SPETOMET® MWK® 50 gasket has an original profile engineered at SPETECH®, the features distinguishing it from other sealing solutions are better recovery, so called metal core shape flexibility effect due to the proportions between the groove depth and width, improved conformability although the gasket has smaller thickness; this last feature allows for the installation of MWK® 50 even in the shallow grooves where usually soft gaskets are applied.
SPETOMET® MWK® 50 Z		
SPETOMET® MWK® 50 B**		SPETOMET® MWK® 50 B for round boiler inspection holes, original design engineered at SPETECH®, the profile allows for relatively deeper grooves and thus thicker sealing layers can be used, it results in good tightness characteristics even in the worn flanges with substantial surface imperfections, the gasket can be inserted into the boiler's opening. Also available customized profile MWK® 10 B with the metal core grooved in traditional way.
SPETOMET® MWK® 55**		SPETOMET® MWK® 55 is an original gasket developed at SPETECH®; it features increased recovery and better conformability, at the same time it reduces the differences of contact stress in radial direction, which prevents the edge of the gaskets from excessive loads; gaskets recommended for wide flanges (for the width >20mm).
SPETOMET® MWK® 60**		SPETOMET® MWK® 60 gasket has the same sealing element as SPETOMET® MWK® 50 but a centring ring with pre-determined breaking groove is added to improved blowout resistance.
SPETOMET® MWK® 65**		SPETOMET® MWK® 65 gasket has the same sealing element as SPETOMET® MWK® 55 but a centring ring with pre-determined breaking groove is added to improve blowout resistance.

** – patented

