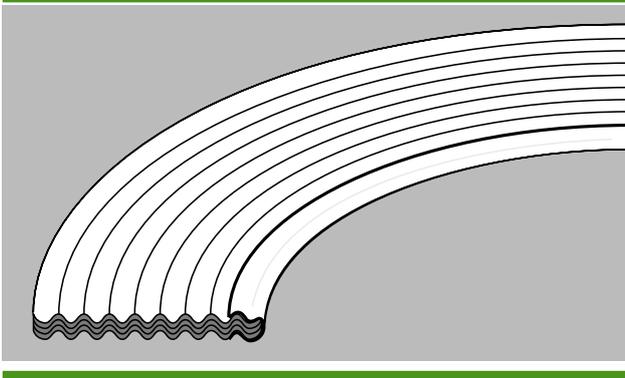


## Waveline WLP® flat gaskets

03



### Waveline WLP® flat gaskets Profile F1

made from Egraflex Steelflon with inner eyelet made from 1.4571 stainless steel

The Waveline WLP Egraflex Steelflon gasket Profile 1 with inner eyelet has a corrugated cross-section which is under high pressure due to the corrugated stress. The sealing material is a sandwich design of pure graphite and metal sheets. The internal design consists of several 0.5 mm thick layers of high-quality graphite sheets and 0.05 mm of plain stainless steel sheet foils.

The surface consists of a stainless steel foil with a 0.05mm thick covering layer of PTFE. The internal eyelet is made of 0.15 mm thick metal sheeting made from 1.4571 stainless steel and finished using the Waveline® process. The entire bond is glue-free.

Due to the pre-compression using the Waveline® process, the cross-section density is improved so that the “flange deforming work” is partly done. Any bolt load applied affects the tips of the waves first. This allows the gasket to even itself out particularly well, even at low flange bearings, which helps it to adapt to the surfaces to be sealed.

The inner eyelet is pre-compressed using the Waveline® process and reduces the diffusion of the medium through the seal. This produces very low leakage rates, even under normal operating conditions. The Waveline WLP® Profile F1 with inner eyelet fulfils the requirements of TA Luft in accordance with the VDI Guidelines 2440.

The metal reinforcements and the stable 0.15 mm thick inner eyelet, combined with the corrugated pre-compression, ensure that the gasket is inherently stable and easy to handle.

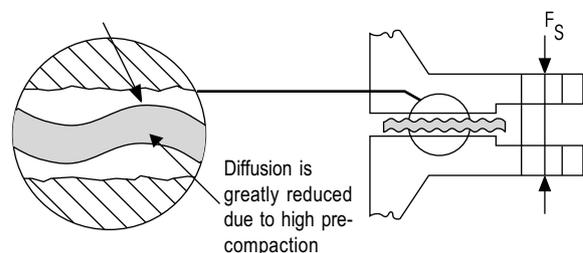
### Gasket limiting values

Min surface pressure N/mm <sup>2</sup> :	$\sigma_v$	20
Max. surface pressure N/mm <sup>2</sup> :	$\sigma_g$	120
Min. temperature:	°C	-200
Max. temperature:	°C	+300

The inner eyelet

- protects the medium and the seal from impurities
- reduces cross-section leakage
- increases the buckling stability and improves handling.

Reduces surface leakage by increasing the surface pressure.



The advantages:

- meets the leakage requirements of the VDI Guidelines 2440 and TA Luft.
- media resistance of 1.4571 steel and PTFE
- wide range of application
- no measurable creep properties
- blow out proof
- easily replaceable, as the gaskets do not stick to the sealing surface.
- no contamination of the medium by the gasket
- easier handling due to the Waveline WLP® process