



Inflatable

Gaskets



TRELLEBORG
ENGINEERED SYSTEMS

DESIGN

The gasket is designed to seal a gap after being inflated. The gasket is flat shaped, with a rubber flange to facilitate installation. During inflation, the flat gasket expands to a larger thickness and the sides will deform into a circular shape. The gasket is provided with ridges on the upper and lower contact area to improve sealing capacity. The gasket can be inflated by air or water.

PRODUCT RANGE

The product range contains 3 gasket sizes with following product codes: FM 150-40, FM 300-50 and FM 600-60. The gasket dimensions are defined by width and thickness. The working height is defined as the maximum total height of the gasket after inflation. The working pressure may only be applied when the gasket is placed between two structures. Never put the working pressure during free inflation. Please find in the appendix the application data diagrams.

INSTALLATION

Installation of the gasket is by steel strips, to position the rubber flange. The bolt connection is outside the gasket flange. The gasket can be closed in itself as a ring or using steel end clamps. The valves can be made through the bottom part of the gasket or through the closed ends.

MATERIALS

The materials used are a SBR/NR rubber compound in combination with nylon plies. Consult Trelleborg Bakker for check on material resistance against chemicals.

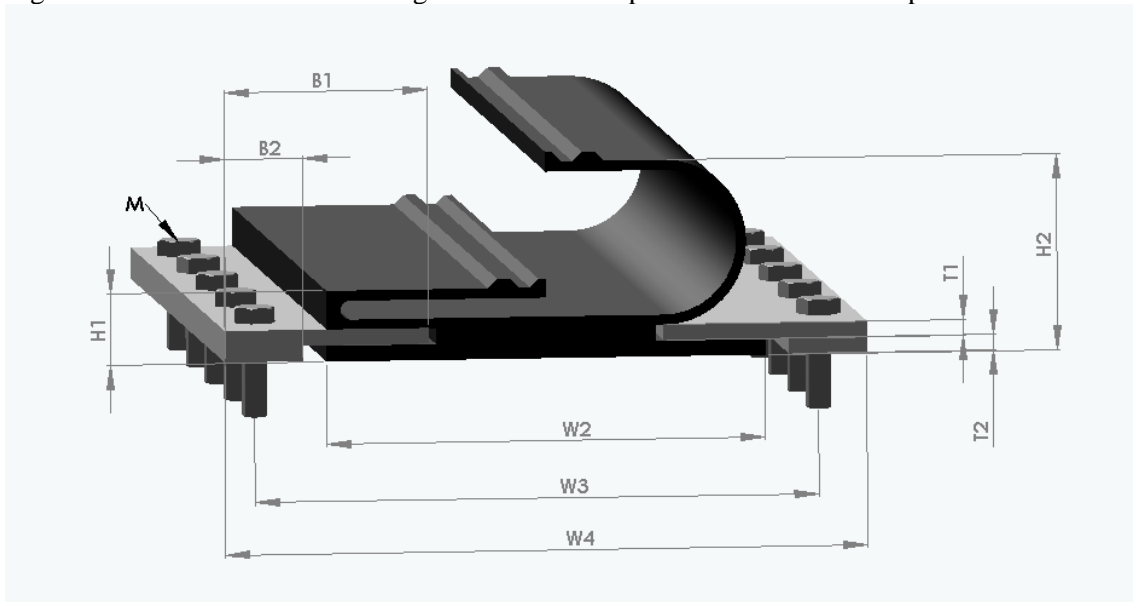
PRESSURES

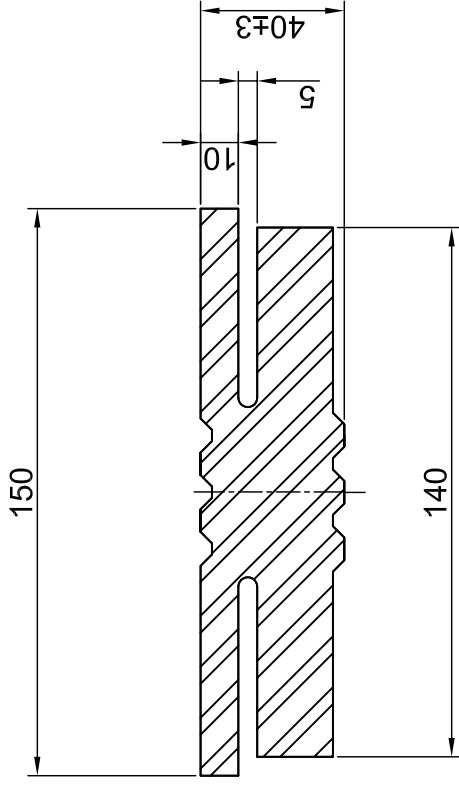
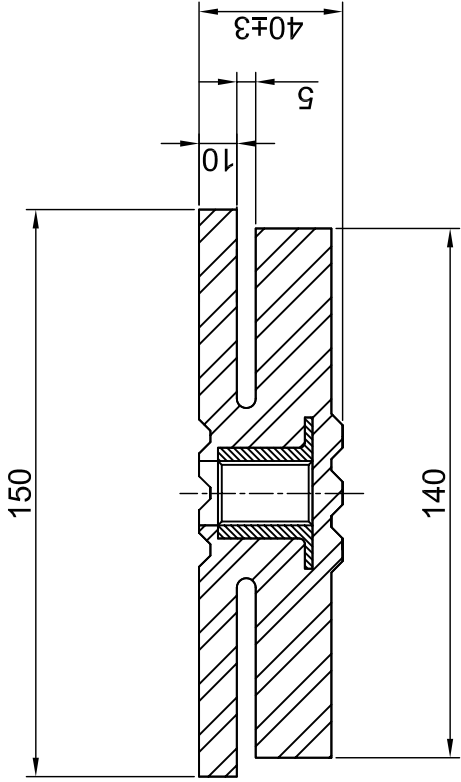
The contact pressure between gasket and wall construction is determined by the inflation pressure and is a measure for the sealing capacity of the gasket. The inflation pressure should always be higher than the pressure difference over the gasket. In general a safety factor of 2 to 3 is used between inflation pressure and pressure difference. At free inflation, the pressure should not exceed 0.1 MPa (=1 bar) for all types.

CONSTRUCTIONS

The gasket shape can be built from straight lengths, L-shaped corners and T-shaped corners. Trelleborg Bakker should be consulted for sealing in curved edges or other special situations.

Figure: Cross section of inflatable gasket in nominal position and in inflated position.





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Schaal-Scale : 1 : 2

Datum-Date : 17-07-2007

Getekend-Drawn : DJDvW

Ontwerp-Design : DJDvW

Gezien-Checked : HT

Order no. :

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Inflatable Seal

Type TB FM-150/40

Tek. AA4-07-4176
Drwg.