

Technical data sheet

GDP ...

Material: polyurethane elastomer

DGT gaskets

are consisting of a monocellular polyurethane elastomer. This material which has especially been developed for technical applications is particularly suitable for the production of damping and sealing elements – especially gaskets. DGT gaskets in square and rectangular cross section are particularly used for the sealing of various bearing applications.

They work as dust and dirt protection as well as acoustic and vibration isolation, whereas the self-lubrication effect can be used by oil-soaked gaskets.

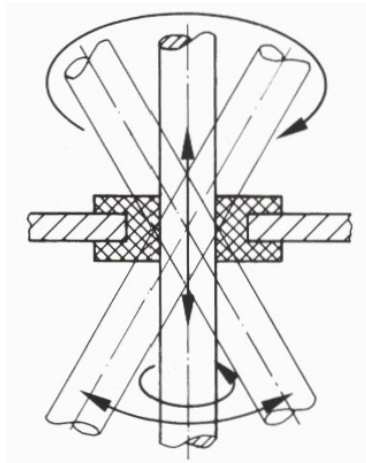
Characteristics

Due to the relatively large sealing surface of DGT gaskets (no line contact) and the high tear strength these gaskets are also resistant when used under hard operating conditions (e.g. agricultural technology, construction machines). The gaskets made by special polyurethane can be compressed by up to 80% and therefore permit large oscillating movements. The slight deformability of DGT gaskets guarantees quick and trouble-free mounting and dismounting. The small compression set even for high deformation frequency assures long reliability and is also responsible for the resistance against oils and greases. Oil and grease-soaked gaskets allow automatic lubrication and increase the dust-tightness. Temperature range -40 °C to +100 °C.

Installation guide

If the dimensions of the shaft and the useful surface have been stated, the inner and outer diameter of the gasket should be chosen approx. 5% smaller resp. larger subject to the tolerance zone, so that a maximum preload of approx. 10% will be created. The statically maximum permissible preload of DGT gaskets made of polyurethane is 30-35%, whereby you will have to calculate a compression set of approx. 6-10%. The roughness depth of the machine parts to be sealed should not exceed 0,005mm at the sealing position. Grease-soaked gaskets decrease the friction factor loss by approx. 50%.

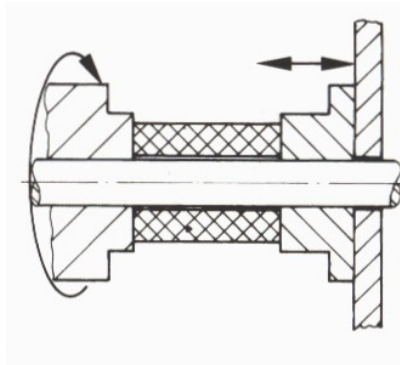
Installation examples



Radial sealing

(sealing at inner and outer diameters)

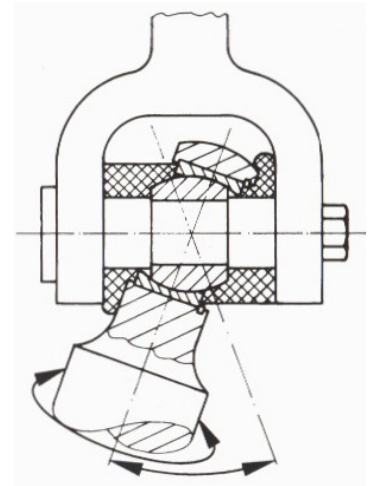
For sealing, guidance as well as sound isolation and vibration damping at gates for shafts and rods with axial and/or slowly rotating and/or oscillating movement.



Axial sealing

(sealing at the face)

For sealing of two machinery parts moving against each other in axial direction with/or rotating shaft.



For sealing of spherical plain bearings and spherical heads with rotating and/or pendular movement.