Mounting example

Adjustable sleeve

Screw GN 1580
Sealing ring GN 7600

Threaded anchor

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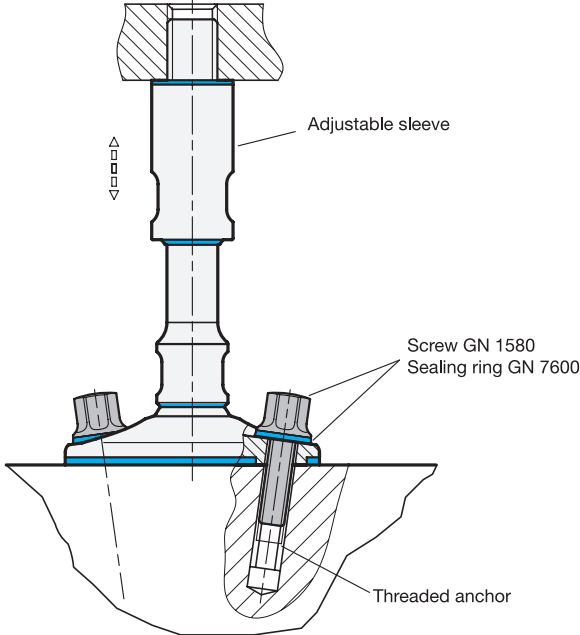EUROPEAN HYGIENIC ENGINEERING & DESIGN GROUP
EHEDG

TYPE EL
CLASS I AUX
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Stainless Steel-Levelling feet GN 20 Hygienic Design with mounting holes ➔ *Page 1035*

Seals

For the standard parts which are listed in Hygienic Design, seals have the central function of protecting dead spaces, gaps and cracks from the penetration of cleaning fluids or product residues.

For this, a defined pre-tension or pressing of the seals and wipers is necessary for a reliable and permanent seal in the installed condition. Within the Hygienic Design product family, seal installation spaces and seal cross sections are calculated and designed with simulation software, so that the necessary surface compression is achieved on installation and the seal material is not subjected to excess pressure.

A fundamental differentiation can be made between static and moving seals:

During assembly, the **static seals** in the design example shown below are tightened to the mounting surface at the top (**sealing ring**) and to the contact surface at the bottom (**bottom seal**). It should be ensured that all surfaces which make contact with the seal have a surface finish of at least R_a 0.8 µm.

The **moving seals** on the adjustable sleeve (**wiper**) and the ball joint (**joint sealing ring**) of the foot are designed so that they allow adjustment in both height and angle. With these too, the installation space together with the cross section of the seal ensures a gap-free, pre-tensioned seal.

Depending on the version and the type of use, it may be the case that seals may need to be replaced in case of damage or for preventative maintenance. For this, Ganter supplies the relevant seals as spare parts or offers these under **GN 7600** (➔ *Page 881*) as standard parts.

Design of the levelling foot GN 20

The illustrated design of the GN 20 Hygienic Design levelling foot shows how the various seal configurations are arranged.

Sealing ring
surface seal (static),
seals the adjustable sleeve
against the mounting surface

Wiper
rotatable and moveable in the axial direction,
the adjustable sleeve is sealed
against the spindle shaft

Joint sealing ring
swivelling (moveable) in two planes,
provides a seal between the ball and the spindle

Bottom seal
surface seal (static),
seals the foot plate
against the mounting surface

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3.2
3.3
3.4
3.5
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3.9