

Hygienic base type ZE-TG

Original Operating Instructions

1. Intended use:

The hygienic base is intended to set up or support machines, equipment and/or other elements.

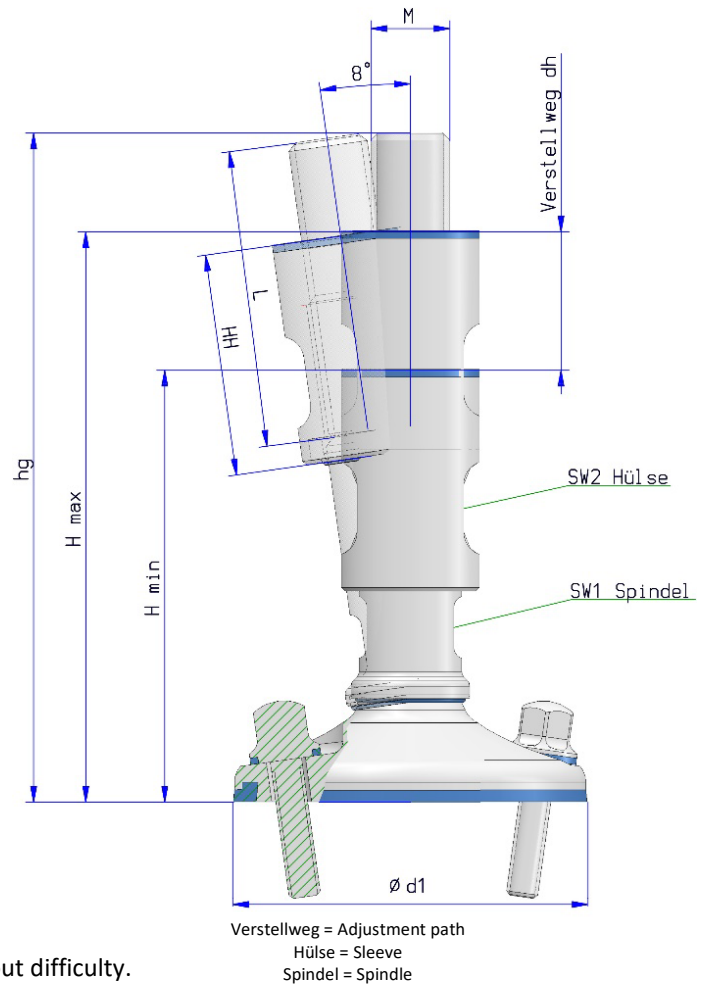
It can be used in the food area, splash area or non-food area (def. acc. to DIN EN 1672-2). In addition, the hygienic base can be used in cases where hygiene risks arise for the consumer of the product. This applies if the following instructions are observed.

Any other use is considered non-compliant.

2. Preparation and tips

The following points should be noted:

- The height H_{min} of the adjustable base must be at least large enough to allow access to the space between the substrate and the machine side for cleaning. The final installation height must not be below h_{1min} and must not exceed the height H_{max} .
- The mounting of the adjustable base (screw-in thread) may only be screwed or installed in a closed installation space or blind hole.
 - o A blind hole must have a minimum depth of **40 mm + H_{max} – Final installation height**.
 - o In the case of a perforating hole, the opposite side must be hygienically sealed if this area also comes into contact with food products or has to be cleaned.
 - o To avoid contact corrosion, the materials with which the hygienic base comes into contact during installation should be of at least the same quality (or material) as the hygienic base itself.
- All factors that reduce the hygienic suitability of the adjustable base are prohibited. These include, in particular, chemical, physical and environmental factors that could impair the materials stainless steel 1.4301 / AISI 304, 1.4305 / AISI 303 and the sealing material VMQ.
- It must be ensured that all parts are easily accessible for regular cleaning. For this purpose, the adjustable base must be positioned in such a way that there is sufficient clearance between the machine parts and other components and cleaning can be carried out without difficulty.
- The installation site must not allow any dead spaces in which dirt can accumulate inaccessibly. For this purpose, there must be no drain, grate, tile joint or other unevenness in the installation area.
- The surface of the installation site must be designed in such a way that there is no gap between the floor and the base. If this is not the case, the floor must be prepared accordingly in advance in the installation areas.



- The adjustable base can compensate for a floor slope of up to 8° (see picture). It must be ensured that the slope of the floor does not cause a gap to form between the floor and the adjustable base seal.
- From an installation angle at which planes can form in the tensioner flats, which do not ensure self-drainage of liquids, these levels must be brought into a horizontal position according to the installation instructions (p 4). Otherwise, such surfaces must be checked for liquid residues after the last rinsing process of cleaning or disinfection and, if necessary, dried by hand.
- The operating temperature must not be below -30 °C, or above 100 °C.
- The sealing surface on the machine must be flat, smooth ($R_a < 0.8 \mu\text{m}$) and clean.
- During all work, it must be ensured that the surfaces and seals of the hygienic base are not damaged. Only suitable tools may be used for assembly. Non-compliant handling and non-compliant tools (e.g. pliers...) are not permitted

3. Assembly instructions

- The sleeve on the spindle is in position H_{min} . The adjustable base is now screwed into the corresponding position of the machine at least until H_{max} . The adjustment path dh is derived from the difference between H_{min} to H_{max} .
- After all the adjustable bases have been inserted into the machine, it can now be lowered. The machine is then levelled by turning the adjustable base spindle with the aid of an open-ended spanner on the spanner flat **SW1**.

NB

In the end position, the scraper must be on the thread-free bolt part of the adjustable base spindle and completely cover the thread, otherwise a hygienic seal cannot be achieved. We recommend maintaining a distance of at least 5 mm to the start of the thread.

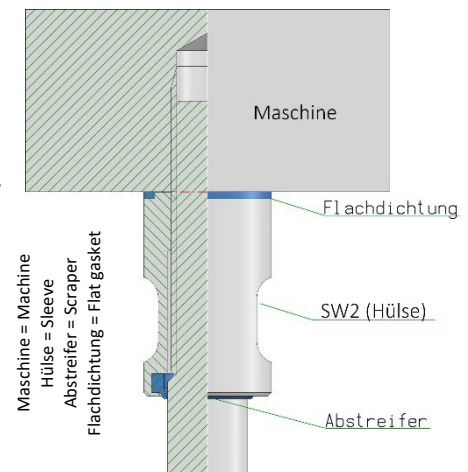
- Now the adjustable bases are anchored to the floor using the hygienic screws from the company Ganter standard GN 1580-M8-30-PL-E, with a tightening torque of 16 Nm.

4. Threaded cover

- After the machine has been levelled, make sure that the thread is completely covered by the sleeve. The flat gasket must be positioned correctly on the sleeve to ensure the required seal. Then the sleeve, with the spanner flat **SW2**, is turned clockwise. Tighten until the metal surface of the sleeve inside the gasket rests firmly on the substrate. To ensure tightness, a minimum torque of 30 Nm must be applied. For the maximum torque, the tightening torques for standard threads must be observed.
- In the case of a perforating hole, the opposite side must be closed with a screw with hygienic design. It must be ensured that the material thickness of the machine allows sufficient screw-in depth at this point when the adjustable base is screwed in to the maximum. The screw is now screwed in until the seal of the screw is also tightened here with a minimum torque of 30 Nm.
- If an installation and tightening situation arises in which spanner flats form horizontal planes, which prevent liquids from draining off automatically, the spanner flats must be turned at a gradient of at least 3°. To do this, loosen the sleeve until the spanner flat SW2 has assumed the required position. Now SW2 is held in this position with the open-end spanner, while the spindle is tightened to block again at SW1 with a second open-end spanner. This process is repeated until the spanner flat SW1 has also assumed a corresponding position.

If this change is not possible, these surfaces must be checked for liquid residues after the last rinsing process of cleaning or disinfection and, if necessary, dried by hand.

Should the adjustable base be inserted into a blind hole, the **minimum blind hole depth** must = **40 mm + H_{max} – Final installation height.**



5. Cleaning and disinfection

5.1 General points to note

- With regard to cleaning and, if necessary, disinfection procedures and agents, care must be taken to ensure that the surfaces and properties of the adjustable base components (the material stainless steel 1.4301 / AISI 304, 1.4305 / AISI 303 and the seals made of VMQ) are not adversely affected or damaged
- Only use clean cleaning utensils (e.g. soft cloths, brush with soft bristles...) that do not damage the surface. Pointed and hard objects (e.g. steel brushes, steel sponges...) are not permitted
- High-pressure cleaners may only be used for cleaning if the cleaning jet does not cause any injuries (e.g. by milling effect) to the seals and no dirt is pressed into the sealing gaps. A pressure of more than 10 bar is generally not recommended.
- Temperatures above 100 °C are not permitted.

5.2 Recommended cleaning agents

- We recommend the use of alkaline cleaning agents in a concentration that is not too high (follow the instructions of the respective manufacturer).
- Cleaners with ingredients that have a detrimental effect on corrosion and ageing of the materials (e.g. cleaners with a high chlorine content that act for a long time) must not be used
- Avoid too high concentrations, temperatures and exposure times.

5.3 Recommended disinfectants

- Only listed cleaning agents according to DVG or DLG may be used for disinfection.
- Disinfectants with ingredients that have a detrimental effect on corrosion and ageing of the materials (e.g. cleaning agents with a high chlorine content that act for a long time) must not be used

5.4 Recommended cleaning procedure

The hygienic base can be cleaned dry and wet. The choice of method depends on the operational conditions and cleanliness requirements.

5.4.1 Dry cleaning

- We recommend removing coarse dry dirt (particles > 50 µm) dry with special hoovers or with the help of the cleaning utensils mentioned above until the desired cleanliness is achieved.
Please note that hard dirt particles (e.g. sand) can damage the surfaces of the hygienic base by mechanical cleaning. Accordingly, work carefully so that no surfaces are damaged and no dirt is introduced into the sealing gap.

5.4.2 Wet cleaning

- For wet cleaning, we recommend first rinsing the hygienic bases with water to remove the coarse and water-soluble dirt. Then lather the adjustable bases completely with a cleaning agent mixture (see above). Observe the manufacturer's instructions regarding mixing ratio and contact time and that all surfaces are wetted
To loosen and remove stubborn dirt, the above cleaning utensils can be used to mechanically support the cleaning process. Please note that hard dirt particles (e.g. sand) can damage the surfaces of the hygienic base by mechanical cleaning. accordingly, work carefully so that no surfaces are damaged and no dirt is introduced into the sealing gap.
Rinse all surfaces with water until the dirt and detergent residues are completely removed from all surfaces.
Note: We recommend using drinking water quality water for at least the last rinse cycle.
Check the cleaning success. If the desired cleanliness has not been achieved, further cleaning should be carried out.
- We recommend drying the hygienic bases with a suitable process after the last rinsing process (also checking and drying the standing surface). Air drying is also possible.
- Surfaces from which liquids cannot run off automatically due to the installation must be checked for liquid residues after the last rinsing process of cleaning or disinfection and, if necessary, dried by hand (pp 2 and 4).

If disinfection is necessary, please follow the instructions of the disinfectant manufacturer regarding use, exposure time and further measures.

VERMAY GmbH & Co. KG
Cologne Local Court: **HRA** 17677
Tax number: 203/5824/0325
VAT ID no.: DE 20 55 67 900

VERMAY Verwaltungs GmbH
General partner (Seat Pulheim)
Cologne Local Court: **HRB** 71359
Managing Director:
Yvonne Mayer-Kopischke

Bank details:
Postbank Cologne
IBAN:
DE 76 3701 0050 0336 5515 03
BIC: PBNKDEFF

5.5 Cleaning and, if necessary, disinfection intervals

The cleaning and, if necessary, disinfection intervals of the hygienic bases are determined by the intended cleaning and, if necessary, disinfection of the complete installation (e.g. machine cleaning) depending on the operational conditions and the existing cleaning and, if necessary, disinfection plan. We recommend at least daily cleaning and, if necessary, disinfection as well as prompt cleaning and, if necessary, disinfection in case of visible contamination!

6. Maintenance

- All components of the hygienic base, especially the VMQ seals, must be checked regularly for damage.
- Defective seals as well as other defective components should be replaced very soon.
If there is direct or indirect contact with foodstuffs, only the following seals from Vermay GmbH & Co. KG may be used.

NB

Replacement with unsuitable materials will invalidate the EHEDG certificate.

Thread	M16		M20		M24	
	Item no.	Designation	Item no.	Designation	Item no.	Designation
Flat gasket	00233	FD35VMQ	00233	FD35VMQ	05***	FD38VMQ
Scraper	00235	AS22VMQ	00235	AS22VMQ	05***	AS26VMQ

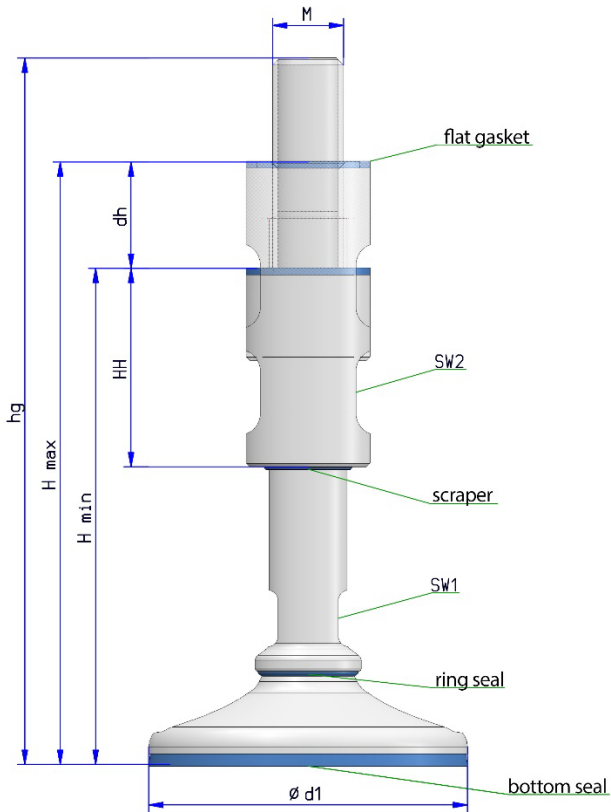
- In case of damage to all other parts of the adjustable base (**including the seal between the disc and the spindle, as well as the bottom seal on the disc**) the complete adjustable base must be replaced.

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7. Dimensions



M	ø d1	HH	H min	H max	SW1	SW2	hg	dh
16	90	42	95	115	17	27	145	20
16	90	56	110	145	17	27	170	35
16	90	56	140	175	17	27	200	35
16	90	56	170	205	17	27	230	35
16	90	86	140	205	17	27	230	65
16	90	86	200	265	17	27	290	65
16	120	42	95	115	17	27	145	20
16	120	56	110	145	17	27	170	35
16	120	56	140	175	17	27	200	35
16	120	56	170	205	17	27	230	35
16	120	86	140	205	17	27	230	65
16	120	86	200	265	17	27	290	65
16	150	42	95	115	17	27	145	20
16	150	56	110	145	17	27	170	35
16	150	56	140	175	17	27	200	35
16	150	56	170	205	17	27	230	35
16	150	86	140	205	17	27	230	65
16	150	86	200	265	17	27	290	65
20	90	42	95	115	17	27	145	20
20	90	56	110	145	17	27	170	35
20	90	56	140	175	17	27	200	35
20	90	56	170	205	17	27	230	35
20	90	86	140	205	17	27	230	65
20	90	86	200	265	17	27	290	65
20	120	42	95	115	17	27	145	20

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M	Ø d1	HH	H min	H max	SW1	SW2	170	dh
20	120	56	110	145	17	27	200	35
20	120	56	140	175	17	27	230	35
20	120	56	170	205	17	27	230	35
20	120	86	140	205	17	27	290	65
20	120	86	200	265	17	27	295	65
20	150	42	95	115	17	27	145	20
20	150	56	110	145	17	27	170	35
20	150	56	140	175	17	27	200	35
20	150	56	170	205	17	27	230	35
20	150	86	140	205	17	27	230	65
20	150	86	200	265	17	27	290	65
24	90	42	95	115	17	27	145	20
24	90	56	110	145	17	27	170	35
24	90	56	140	175	17	27	200	35
24	90	56	170	205	17	27	230	35
24	90	86	140	205	17	27	230	65
24	90	86	200	265	17	27	290	65
24	120	42	95	115	17	27	145	20
24	120	56	110	145	17	27	170	35
24	120	56	140	175	17	27	200	35
24	120	56	170	205	17	27	230	35
24	120	86	140	205	17	27	230	65
24	120	86	200	265	17	27	290	65
24	150	42	95	115	17	27	145	20
24	150	56	110	145	17	27	170	35
24	150	56	140	175	17	27	200	35
24	150	56	170	205	17	27	230	35
24	150	86	140	205	17	27	230	65
24	150	86	200	265	17	27	290	65

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