

# CERTIFICATE OF COMPLIANCE



**EL Class I AUX**

*Date of issue: 30 March 2023*

*Valid until: 31 December 2024*

*EHEDG hereby declares that the product*

***Hygienic base, type ZE-TG in size  $\phi 90$ ,  $\phi 120$ ,  $\phi 150$  with VQM gaskets***

*from*

*VERMAY GmbH & Co. KG, Zeppelinstraße 8, 50259 Pulheim, Germany*

*has/have been evaluated for compliance and meets/meet the current criteria for  
Hygienic Equipment Design of the EHEDG*

***Certificate No. EHEDG-C2300023***

Signed \_\_\_\_\_

*Hein Timmerman*

*President EHEDG*

Signed \_\_\_\_\_

*Karlijn Faber*

*EHEDG Certification Officer*

*EHEDG  
Karspeldreef 8  
1101 CJ Amsterdam  
Netherlands*

©EHEDG





## **CONTRACT TO USE THE EHEDG CERTIFICATION LOGO FOR EQUIPMENT OR COMPONENTS**

A Contract entered into this 28.03.2023 between STICHTING EHEDG, an organization (foundation) existing under Dutch law, with its Head Office at Karspeldreef 8, 1101 CJ Amsterdam, Netherlands, herein after called "EHEDG" and VERMAY GmbH & Co. KG, Zeppelinstraße 8, 50259 Pulheim, Germany, herein after called "Company".

1. Certified Equipment and Certified Components are any equipment, component, system, material or service for which EHEDG has specifically authorized the use of the EHEDG Certification Logo. The EHEDG Certification Logo is a registered mark. All existing rights in connection with or future rights through the use of the logo are exclusively reserved to the EHEDG.
2. EHEDG has determined that the Equipment or Components identified in Article 11 of this Contract comply with the requirements of the applicable criteria and certification classification under Appendix 1 (EHEDG Certification Type: EL Class I AUX) of this Contract.
3. Upon execution of this Contract and payment of any outstanding fees, EHEDG authorizes the Company to use the EHEDG Certification Logo on the Equipment or Components identified in Article 11 subject to the conditions described in Appendix 2 (Conditions for Use of the EHEDG Certification Logo) of this Contract for a period of one year. The period may be extended annually by providing documentation which shows that the Equipment or Components Certified still fully meet/s the provisions of this Contract and payment of an annual prolongation fee as published on [www.ehedg.org](http://www.ehedg.org). On each fifth year anniversary of the initial Certification, the Equipment or Component Certified will be subject to a full hygienic design evaluation and testing, as appropriate, to renew the Certification.
4. The Company undertakes the responsibility to place the Logo only on the Equipment or Components which has/have been certified as in compliance with this Contract.
5. It is understood and agreed that a Logo on any Equipment or Components and its/their Certification are invalid if the Equipment or Components has/have been significantly altered or been represented as being Certified for any purpose or end use other than that Certified by EHEDG. EHEDG assumes no liability for any claims arising from such alteration, misuse, or misrepresentation by the Company.
6. The Company assumes responsibility to inform EHEDG of any changes or modification in the design and manufacture of Certified Equipment or Components which may affect compliance with the EHEDG Criteria. EHEDG will judge whether the changes or modifications render the current Certification void. The need for review of the modified Equipment or Components depends on the modification being carried out.
7. EHEDG assumes no liability for any claims for damages of any kind occurring to any person or entity as a result of sale, resale, use or misuse of the Company's Equipment or Components, whether or not these are certified. The Company assumes full and complete responsibility for its use of the Logo or other representation that its Equipment or Components are Certified. EHEDG assumes no liability for any claims arising from the Company's misuse of the Logo or misrepresentation of the Certification status of its Equipment or Components.
8. The Company undertakes to declare in writing before the annual expiry date on the Certificate at the latest that no modifications were made on the Certified Equipment or Components, or parts thereof. If modifications have been made on the certified Equipment or Components, the Company is to notify EHEDG thereof who determines whether the Certified Equipment or Components needs review or not.
9. Certification of the Equipment or Components is subject to a full evaluation every five years from the issuance date. If the company fails to comply with the five year evaluation or fails the evaluation, the certificate will no longer be valid. At the end of this period the Certification is no longer valid and the use of the Certification Logo in relation to the Equipment or Components for which the Certification was issued is, from that moment on, strictly forbidden. However, Certification of the Equipment or Components can be reviewed to determine if the Certification could be reaffirmed as

written or modified to meet the current applicable EHEDG criteria and reissued, or discontinued. The Company is responsible to initiate the review process sufficiently in advance of the renewal date to prevent a delay in certification.

10. The Contract may be terminated with thirty days' notice by either party. The right to terminate the Contract for cause remains unaffected. Good cause is especially given, if the license fees were not paid or modifications have been carried out on the Certified Equipment or Components without prior notification. This Contract will be terminated when replaced by a mutually agreed new contract or contract revision provided by EHEDG or in case of abuse of the Logo as mentioned under article 14, below.
11. The EHEDG Certification Logo may be used on or in connection with the following Equipment or Components:
  - Hygienic base, type ZE-TG in size  $\varnothing 90$ ,  $\varnothing 120$ ,  $\varnothing 150$  with VQM gaskets as shown on the drawings or copies of drawings with original (NOT copied) EHEDG stamp, dated and signed by AEO, provided that the Equipment or Components - as applicable - has/have means for use and/or mounting such that compliance with the EHEDG Criteria is not adversely affected as stated in the Hygienic Design Evaluation Report.
12. EHEDG will keep all documents and other evidence of the Company's Equipment or Components on file. The Secretariat of EHEDG will keep records of Equipment and Components that has/have been certified. EHEDG undertakes to treat all documents received from the Company as confidential.
13. A Certificate will be provided bearing the EHEDG Logo and applicable Certification type identification as shown on Appendix 1 of this Contract. The Certificate will be signed and dated.
14. Abuse of the EHEDG Certification Logo (i.e. its use under conditions conflicting with this Contract) may result in any or all of the following sanctions:
  - a. a request to immediately take corrective actions;
  - b. termination of the Contract;
  - c. indemnities and damages to the minimum amount of EUR 10,000 per case.

Examples of Abuse:

- the Company uses the EHEDG Certification Logo on Equipment, Components, drawings, brochures or other documents which have not been Certified;
  - the Company uses the EHEDG Certification Logo as general information on documents;
  - the Company uses the EHEDG Certification Logo on modified Equipment, Components drawings, brochures or other documents without prior notification to EHEDG;
  - the Company uses the EHEDG Certification Logo on Certified Equipment or Components, drawings, brochures or other documents using another name and/or designation without prior notification to EHEDG;
  - the Company uses the EHEDG Certification Logo on Equipment, Components, drawings, brochures or other documents of Equipment or Components which passed the EHEDG in-place cleaning test but do not comply with the Hygienic Design Criteria of EHEDG.
15. Disputes between Parties in connection with or arising out of the Contract, which cannot be resolved by arrangement between parties, shall be finally settled by arbitration in accordance with the rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbiters appointed in accordance with those rules. The place of arbitration shall be Den Haag (The Hague).
  16. This Contract and referenced documents constitute the entire agreement between Parties and supersede all previous communications, representations or agreements between Parties with respect to the Certified Equipment or Components. No modification will be binding upon either party unless it is made in writing and is signed by duly authorized representatives of both Parties.
  17. This Contract will be subject to Dutch law.

For Company

VERMAY GmbH & Co. KG

Lothar Mews

Name

Dipl. - Ing. (FH)

Title



Signature

Mar 29, 2023

Date

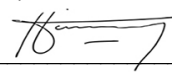
For EHEDG

Hein Timmerman

Name

President EHEDG

Title



Signature

28 March 2023

Date

**This Contract includes the following documents:**

Appendix 1 – EHEDG Certification Logo type and class

Appendix 2 – Conditions for Use of the EHEDG Certification Logo

Appendix 3 – EHEDG Equipment Evaluation Form



## Appendix 1

### **EHEDG CERTIFICATION TYPE EL CLASS I AUX**

#### **AUXILIARY EQUIPMENT INTENDED FOR OPEN PLANT CLEANING WITH LIQUIDS WITHOUT DISMANTLING**

Equipment intended for open plant cleaning(OPC) with liquids without dismantling may be EHEDG Certified if it complies with the current Hygienic Design Criteria (HDC) of the EHEDG.

TYPE EL CLASS I AUX Certification applies to equipment of which inspection, including documentation provided, by an EHEDG Authorized Evaluation Officer (AEO) that the equipment either fully complies with the HDC, or that for functional reasons, which are unavoidable, does not fully comply with the HDC, and additional documentation of specified measures to compensate for the lack of compliance has been provided. These specific measures shall be clearly mentioned in any technical description of the equipment as well as in any operating instructions to be provided by the equipment supplier.

Examples of certifiable equipment are:

Auxiliary equipment like vision sensors, machine leveling feet, gear drive unit.

All documentation is recorded within the official certification file and may include reports of cleanability tests, but also include results of the measurement of surface roughness, radii of corners, etc.

## Appendix 2

### CONDITIONS FOR USE OF THE EHEDG CERTIFICATION LOGO

Upon obtaining evidence of compliance (see Appendix 1: EHEDG Certification Type), a contract shall be executed by the Company and EHEDG. The contract shall detail the Product for which Certification is provided. The Certification Logo will be dated (month and year) and will last for a period not to exceed 5 years unless the equipment, or any part thereof, is modified, in accordance with clauses 3 and 6 of the Contract.

#### 1. Use of the Logo and responsibility of Applicant

1.1 The Applicant shall represent as Certified, by use of the Logo or otherwise, only Products described in the Contract.

1.2 The language allowed is either "Certified by EHEDG" or "EHEDG Certified". Correct literal translations are also allowed.

1.3 The Logo may be printed in black or in two colours. If printed in two colours, "EHEDG" must be in red and all other text in blue (see 10, below).

1.4 The Logo must be used in combination with the type of Certification, such as "TYPE EL CLASS I", and the date (month in text and year in four digits) of Certification. Both must be produced below the logo in the way shown under 10. The text, such as "TYPE EL CLASS I", must be at least 1/10 times the size of the logo and the date must be at least 1/20 times the size of the logo, but both must never be less 2 mm in height. The font must be ARIAL Bold.

1.5 If the logo is applied directly (etching) on to the Product, this may be done without using colours. If colours are used, the colours mentioned under 1.3 must be used, as indicated. It must be ascertained that the use of the Logo on Products does not adversely affect either hygiene or food safety. Dimensional requirements are as specified under 1.4.

1.6 The Logo may not be cropped in any way.

1.7 The Logo may be used in combination with other logos or marks.

If used in combination with other logos, it does not automatically mean that the EHEDG is linked to those organisations in one way or the other.

#### 2. Written Authorization for Certification and Use of the Logo

The EHEDG Logo is a registered Mark. No Company or person shall apply or use the Logo in connection with a Product, or represent in any way that the Product is EHEDG Certified, until receipt of written authorization from EHEDG. EHEDG may pursue legal recourse if the Logo is misused.

#### 3. Transfer of Authorization for Certification and Use of the Logo

No company may independently transfer or authorize the use of their certification. Upon request and with documentation of continued compliance, EHEDG may transfer authorization for continued Certification of specific Products to another Company for the purpose of a name change, change of ownership, or change of a production location. An administration fee will be charged.

#### 4. EHEDG Acknowledgement of Certified Products

Certified Products may bear the Logo or be otherwise represented as Certified.

#### 5. Trade Designations

A Company shall not use the letter combination "EHEDG" in its trade designation (e.g. name, model number, or other identification assigned by the Company) for a Certified or non-Certified Product.

A Company shall not have a trade designation for a Certified Product that directly or indirectly states or implies an end use application for which the product is not certified.

**6. Product modification**

Any modification of the product, which has been Certified renders the Certification void for the modified products. If Certification of the modified product is desired, a new application must be submitted. If the modification proves to be relatively insignificant, the fee may be reduced or waived at the discretion of EHEDG.

**7. Implementation of Revisions to Referenced EHEDG Guideline(s)**

Upon adoption of a revision to any referenced EHEDG Guideline(s), mentioned in the Contract, the Company shall be encouraged to implement all changes in requirements in its Certified Products.

**8. Certification of Distributors**

A Company distributing a Certified Product with a trade designation other than that of the original manufacturer may apply for an extra EHEDG Certification and contract.

**9. Private Labelling of Certified Products**

If a Company has the intention to label Certified Products with another name and/or designation the Company shall prior to any changes notify the EHEDG thereof in writing. On written consent of the EHEDG, the Company may apply for an extra EHEDG Certification and contract.

**10. Examples of the EHEDG Certification Logo**

The applicable logo (with Month and Year) will be provided by EHEDG.

**EHEDG BLUE**

CMYK	100.79.4.0
RGB	22.65.148
HEX	164194

**EHEDG RED**

CMYK	0.87.84.0
RGB	231.59.45
HEX	E73B2D



## Appendix 3

# EHEDG Certification – Equipment Evaluation Form

Design Evaluation Date: 01.08.2022

EHEDG File Number: EHEDG-R2300013

Certification Type: EL CLASS I AUX

Applicant: VERMAY GmbH & Co. KG

Equipment: Hygienic base, type ZE-TG in size ø90, ø120, ø150 with VQM gaskets

Other essential identification:


### Evaluated by:

Name: Dr. Jürgen Hofmann

### Approved by:

Name: Andy Timperley, on behalf of the Working Group Certification

Title: AEO, Chairman of the WG Certification

Date, Signature: 27.03.2023, 

1. Results of inspection for compliance with the EHEDG Hygienic Design Criteria.

Conclusion:

**The equipment complies with the criteria.**

YES

**The use of the EHEDG Certification logo is justified:**

MAYBE

2. Evidence for compliance provided and convincing for Certification.

Conclusion:

**The equipment complies with the criteria where possible.**

YES

**The use of the EHEDG Certification logo is justified:**

Signature:



Date: 17.03.2023

*The original of this form will be kept by EHEDG together with the application, the inspection report, the evidence provided and any other relevant documentation, as listed on the back.*



### Appendix 3

No.	Description
1.	EHEDG Certificate of Compliance
2.	Contract to use the EHEDG Certification Logo for equipment
3.	Appendix 1: Auxiliary Equipment intended for open plant cleaning with liquids without dismantling
4.	Appendix 2: conditions for use of the EHEDG Certification Logo
5.	Appendix 3: Equipment evaluation form
6.	Evaluation report of the design of the Hygienic base, type ZE-TG in size ø90, ø120, ø150 with VQM gaskets, no. 20123TUM2023
7.	Drawings of the Hygienic base, type ZE-TG in size ø90, ø120, ø150 with VQM gaskets, drawing nos.20230301-1, 20230109-01, 20230109-02, 20230109-03;original stamped
8.	Cleaning and Installation manual supplied by the manufacturer
9.	Example of EHEDG Certified Logo Type EL CLASS I AUX

# EHEDG\_Certification\_Contract for Hygienic base, type ZE-TG in size ø90, ø120, ø150 with VQM gaskets

Final Audit Report

2023-03-29

Created:	2023-03-28
By:	EHEDG Office (office@ehedg.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAnbUwysGmIRQ4CVsw4pT-AAbrhpKetFfH

## "EHEDG\_Certification\_Contract for Hygienic base, type ZE-TG in size ø90, ø120, ø150 with VQM gaskets" History

-  Document created by EHEDG Office (office@ehedg.com)  
2023-03-28 - 12:03:49 PM GMT- IP address: 145.128.233.9
-  Document emailed to Lothar Mews (lothar.mews@vermay.de) for signature  
2023-03-28 - 12:04:23 PM GMT
-  Email viewed by Lothar Mews (lothar.mews@vermay.de)  
2023-03-28 - 1:18:42 PM GMT- IP address: 87.128.53.227
-  Document e-signed by Lothar Mews (lothar.mews@vermay.de)  
Signature Date: 2023-03-29 - 1:32:59 PM GMT - Time Source: server- IP address: 87.128.53.227
-  Agreement completed.  
2023-03-29 - 1:32:59 PM GMT

Names and email addresses are entered into the Acrobat Sign service by Acrobat Sign users and are unverified unless otherwise noted.

## **EHEDG Hygienic Design Criteria Evaluation Report no. 20123TUM2023**

*Items evaluated: Hygienic base, type ZE-TG in size  $\varnothing 90$ ,  $\varnothing 120$ ,  $\varnothing 150$  with VQM gaskets*

- The hygienic base consists of different heights and disc diameters with different spindle thread sizes:
  - Disc diameters available:  $\varnothing 90$ ,  $\varnothing 120$ ,  $\varnothing 150$
  - Spindle thread sizes available: M16, M20, M24

*Manufactured by: VERMAY GmbH & Co. KG, Zeppelinstraße 8, 50259 Pulheim, Germany*

The evaluation is based on the applicable EHEDG hygienic design criteria (HDC) in Document nos. 8 (2018), 13 (2004), 16 (1997), 32 (2005), Doc 43 (2016) and with reference to specific EHEDG Supplementary Certification Requirements described in Document SCR 1-1, Version 01\_210505.

### *Materials, Surface Roughness, Fabrication and Surface Geometry*

- Metallic product contact surfaces are constructed from stainless steel alloy EN 1.4301 / AIST 304 and 1.4305 / AIST 303. This material is considered non-toxic and corrosion-resistant under the intended conditions of use.
- Product contact surfaces are finished to  $0.8 \mu\text{m Ra}$  or better by polishing. A sample of the hygienic base was measured at Quality Control inspection and documented to be in conformance with the above specifications.  
stainless steel surface:  
sleeve and foot:  $\text{Ra} = 0.75 \mu\text{m} - 0.77 \mu\text{m}$   
shaft:  $\text{Ra} = 0.30 \mu\text{m}$   
wrench flat (sleeve and shaft):  $\text{Ra} = 0.37 \mu\text{m}$
- All gaskets are made of VMQ. The surface is smooth without any visible pores or damage. The VMQ material, type SI685 (VMQ 85 blue) from WESTRING is allowed to be used in contact with food according to FDA § 21 CFR title 177.2600.
- All materials of construction are following the requirements of EU regulation 1935/2004.
- For mounting on the floor, EHEDG certified screws from Otto Ganter GmbH & Co.KG, Germany, type GN1580-M8 are used. (EHEDG Certificate C2200006)
- The geometry of the Hygienic base complies with the HDC of EHEDG with no sharp internal angles and corners or crevices or horizontal surfaces. The seal design is according to Documents 13 and 16 with controlled compression and a flush sealing at the product contact side.

### *Drainability and Layout*

- Instruction manual specifies the correct installation orientation for self-draining application.

### *Installation and Cleaning*

- Instructions provided containing information regarding easy cleanable installation.
- Cleaning is described in manual and shall be done according to methods of the operational conditions.
- Sufficient clearance from all sides is necessary to have the accessibility to clean all relevant surfaces and joining areas.

- The levelling foot must be correctly screwed to the floor according to the manual with two attachment points and the use of EHEDG certified screws.

*Adhesives, Lubricants and Signal transfer liquids*

- Not applicable.

*Conclusion*

The Hygienic Design Criteria Evaluation Report concludes that this **Hygienic base, type ZE-TG in size  $\varnothing 90$ ,  $\varnothing 120$ ,  $\varnothing 150$  with VQM gaskets** complies with the applicable EHEDG Hygienic Design Criteria for Hygienic Equipment Class I and the use of the EHEDG Certified logo Type EL CLASS I AUX is justified.



**Dr.-Ing. J. Hofmann**  
**17.03.2023**

# Drawings of the hygienic base

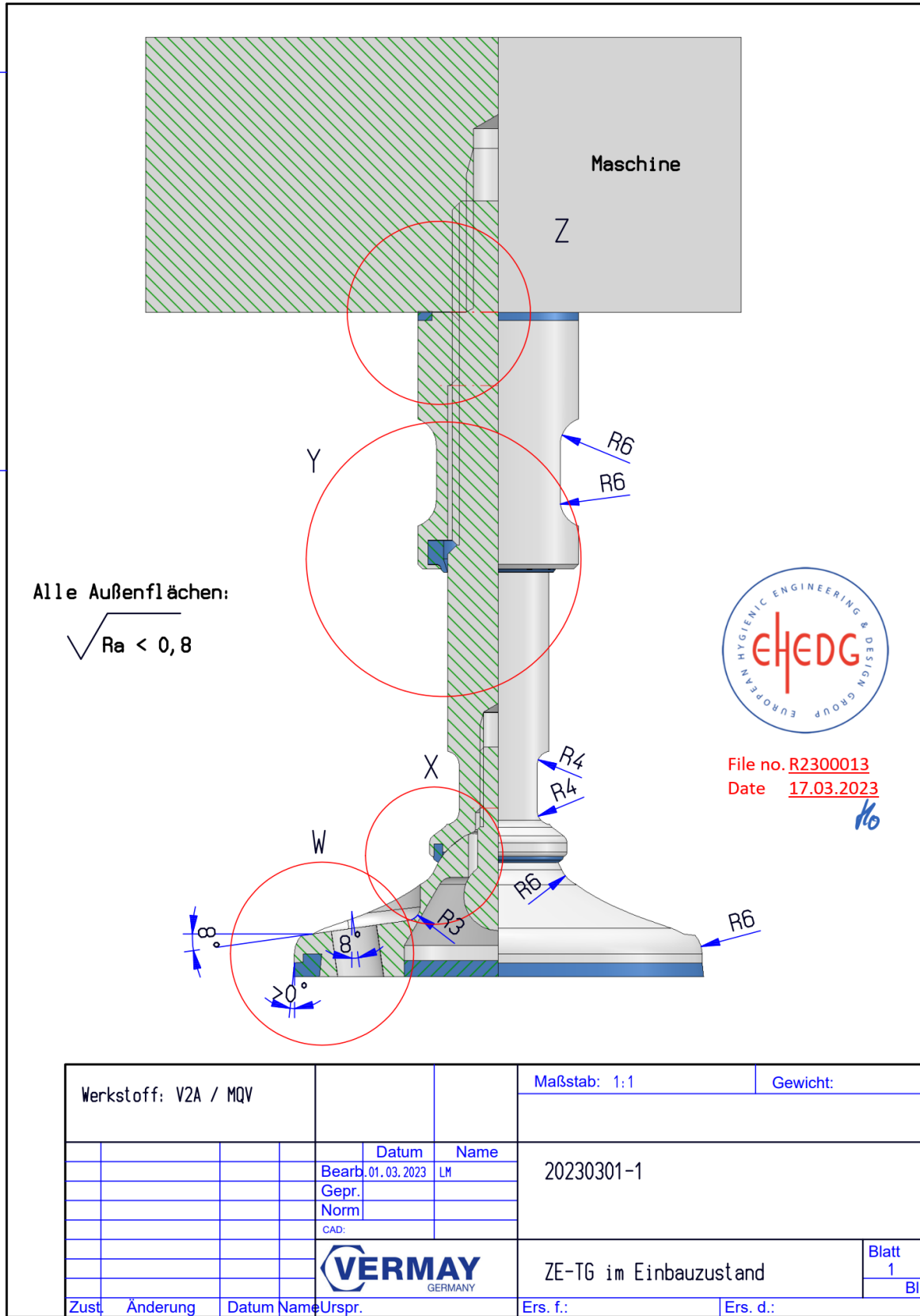


Fig. 1: sectional drawing of the hygienic base

01.03.2023

# Drawings of the hygienic base

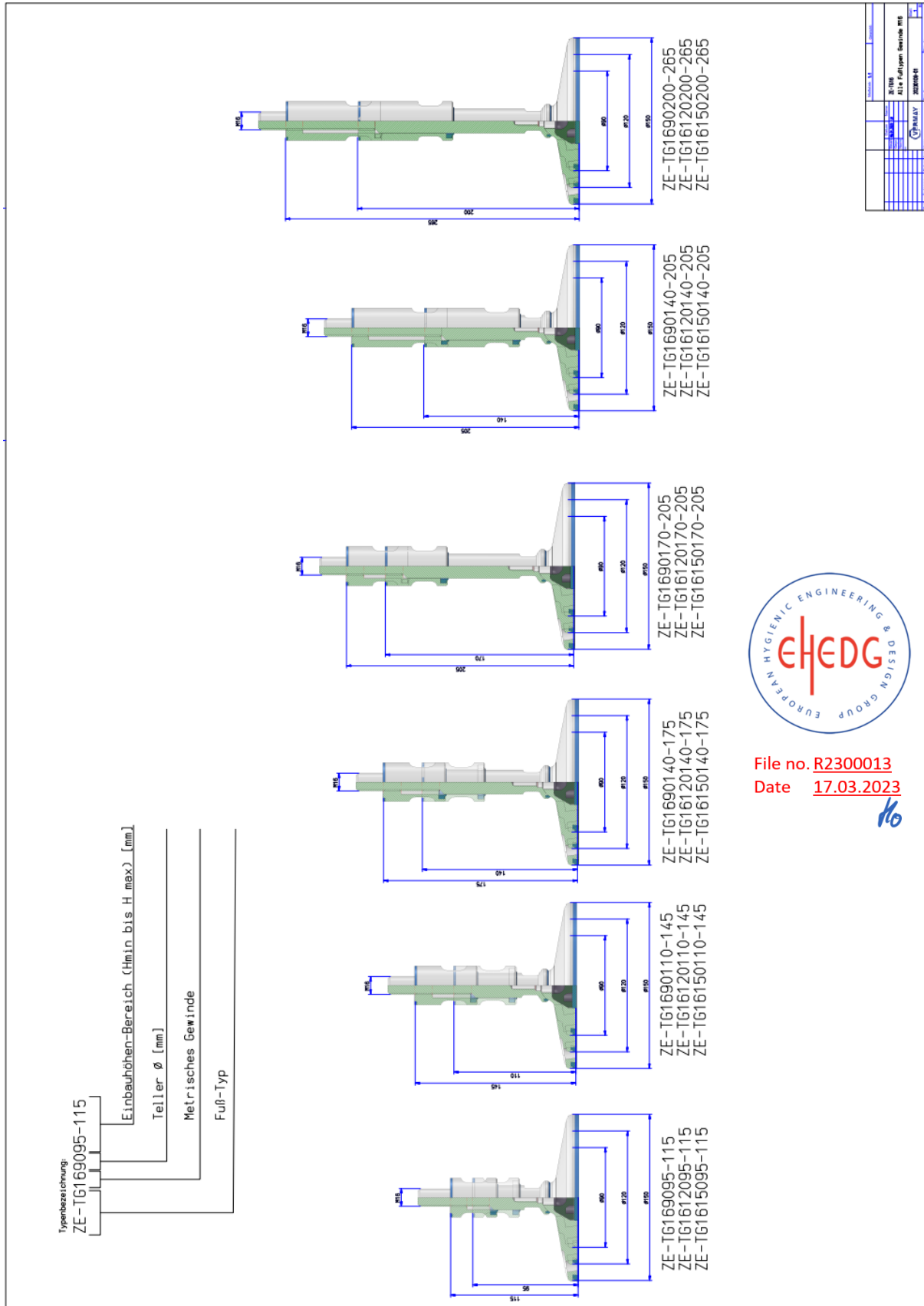


Fig. 2: overview drawing of the hygienic base for shaft M16

# Drawings of the hygienic base

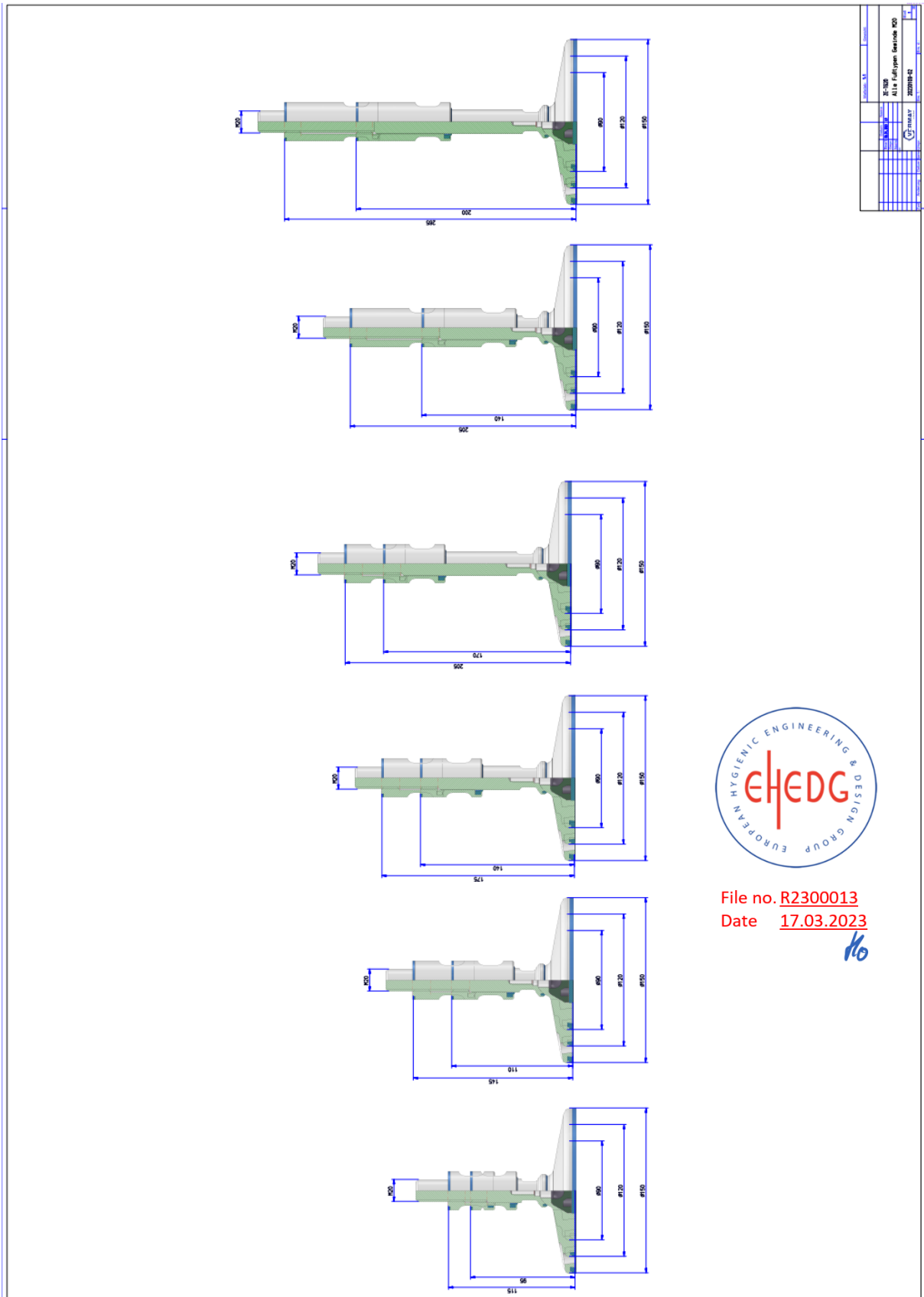


Fig. 3: overview drawing of the hygienic base for shaft M 20

# Drawings of the hygienic base

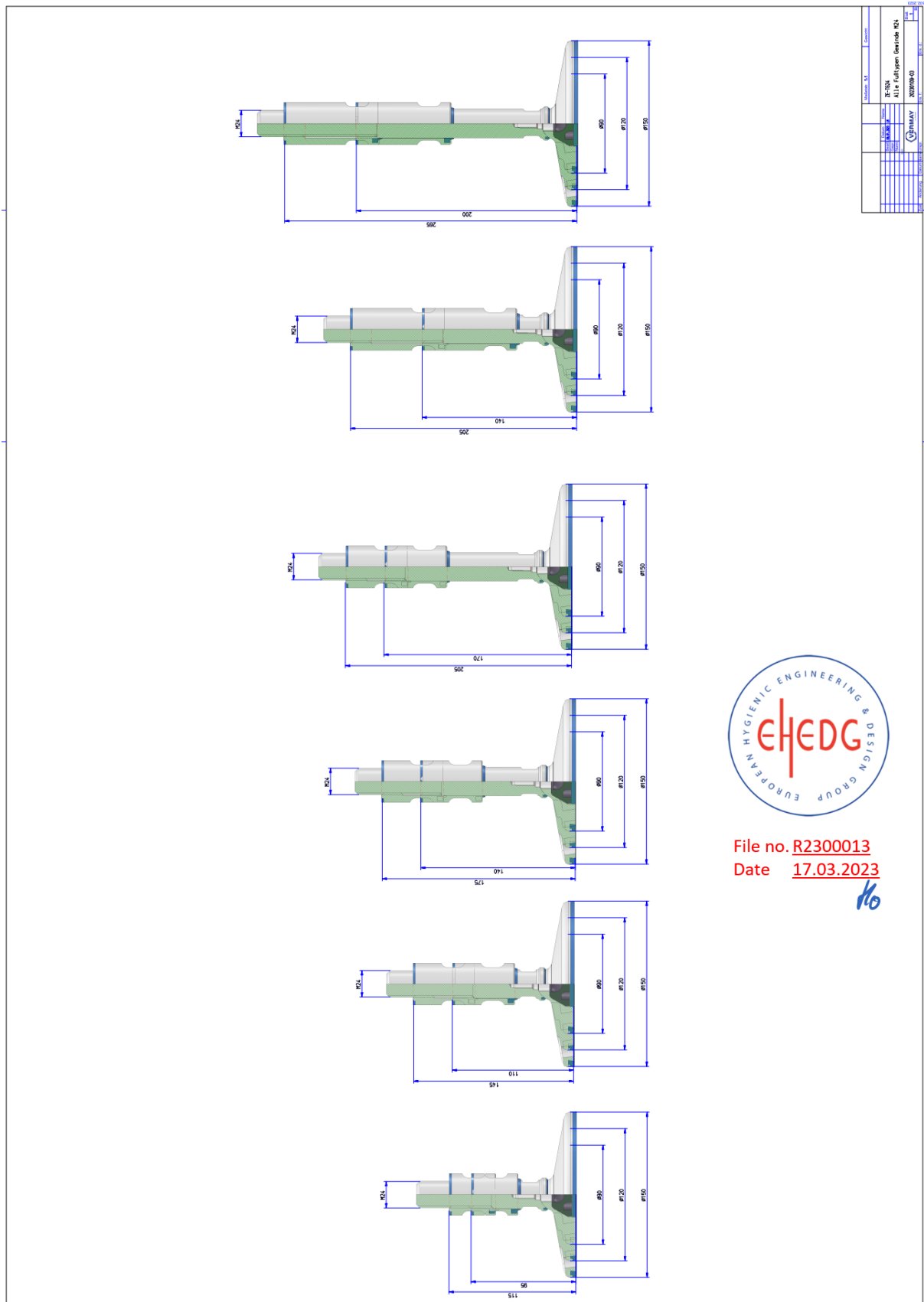


Fig. 4: overview drawing of the hygienic base for shaft M 24





Telephone: 02234 / 379 449 – 0  
Fax: 02234 / 379 449–30  
Email: info@vermay.de  
Web: www.vermay.de

## 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.

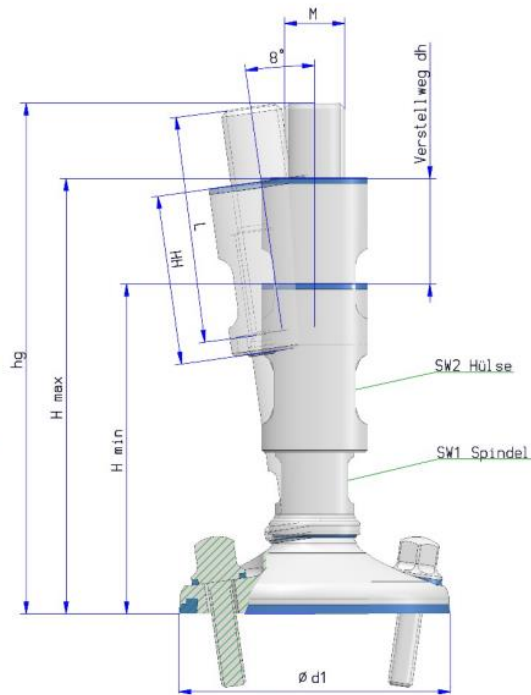
It can be used in the food area, splash area or non-food area (def. acc. to DIN EN 1672-2). In addition, the hygienic base can be used in cases where hygiene risks arise for the consumer of the product. This applies if the following instructions are observed.

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.



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

- 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.

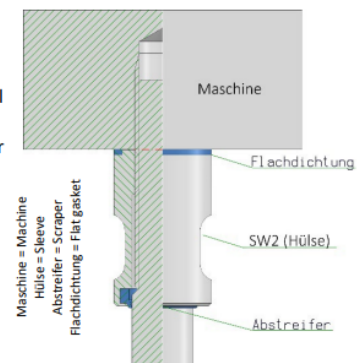
- Now the adjustable bases are anchored to the floor using the hygienic screws from the company Ganter standard GN 1580-M8-30-PL-E, with a tightening torque of 16 Nm.

### 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 =  $40 \text{ mm} + H_{max} - \text{Final installation height}$ .



**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. 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.

**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



**TYPE EL**  
**CLASS I AUX**  
**MARCH 2023**