

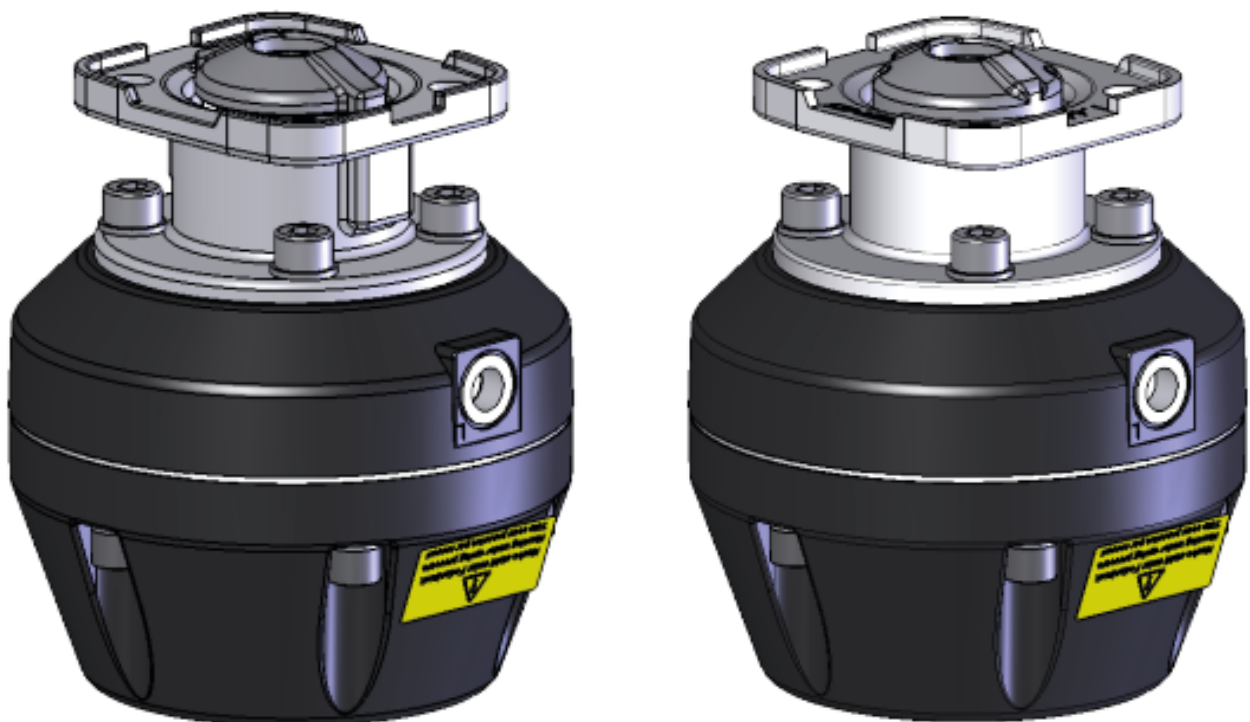
GEMÜ 687 (MG 25, MG 40, MG 50)

Pneumatically operated diaphragm valve

EN

Assembly instructions

Modifying from the old to the new versions of the distance piece and compressor using an assembly aid



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1 General information

1.1 Information

- The descriptions and instructions apply to the standard versions. For special versions not described in this document the basic information contained herein applies in combination with any additional special documentation.
- Correct installation, operation, maintenance and repair work ensure faultless operation of the product.
- Should there be any doubts or misunderstandings, the German version is the authoritative document.
- Contact us at the address on the last page for staff training information.

1.2 Symbols used

The following symbols are used in this document:

| Symbol | Meaning |
|--------|-----------------------|
| ● | Tasks to be performed |
| ▶ | Response(s) to tasks |
| – | Lists |

1.3 Warning notes

Wherever possible, warning notes are organised according to the following scheme:

| SIGNAL WORD | |
|---|--|
| Possible symbol for the specific danger | Type and source of the danger <ul style="list-style-type: none"> ▶ Possible consequences of non-observance. ● Measures for avoiding danger. |

Warning notes are always marked with a signal word and sometimes also with a symbol for the specific danger.

The following signal words and danger levels are used:

| | |
|---|--|
| ⚠ DANGER | |
|  | Imminent danger! <ul style="list-style-type: none"> ▶ Non-observance can cause death or severe injury. |
| ⚠ WARNING | |
|  | Potentially dangerous situation! <ul style="list-style-type: none"> ▶ Non-observance can cause death or severe injury. |
| ⚠ CAUTION | |
|  | Potentially dangerous situation! <ul style="list-style-type: none"> ▶ Non-observance can cause moderate to light injury. |
| NOTICE | |
|  | Potentially dangerous situation! <ul style="list-style-type: none"> ▶ Non-observance can cause damage to property. |

2 Safety information

The safety information in this document refers only to an individual product. Potentially dangerous conditions can arise in combination with other plant components, which need to be considered on the basis of a risk analysis. The operator is responsible for the production of the risk analysis and for compliance with the resulting precautionary measures and regional safety regulations.

The document contains fundamental safety information that must be observed during commissioning, operation and maintenance. Non-compliance with these instructions may cause:

- Personal hazard due to electrical, mechanical and chemical effects.
- Hazard to nearby equipment.
- Failure of important functions.
- Hazard to the environment due to the leakage of dangerous substances.

The safety information does not take into account:

- Unexpected incidents and events, which may occur during installation, operation and maintenance.
- Local safety regulations which must be adhered to by the operator and by any additional installation personnel.

Prior to commissioning:

1. Transport and store the product correctly.
2. Do not paint the bolts and plastic parts of the product.
3. Carry out installation and commissioning using trained personnel.
4. Provide adequate training for installation and operating personnel.
5. Ensure that the contents of the document have been fully understood by the responsible personnel.
6. Define the areas of responsibility.
7. Observe the safety data sheets.
8. Observe the safety regulations for the media used.

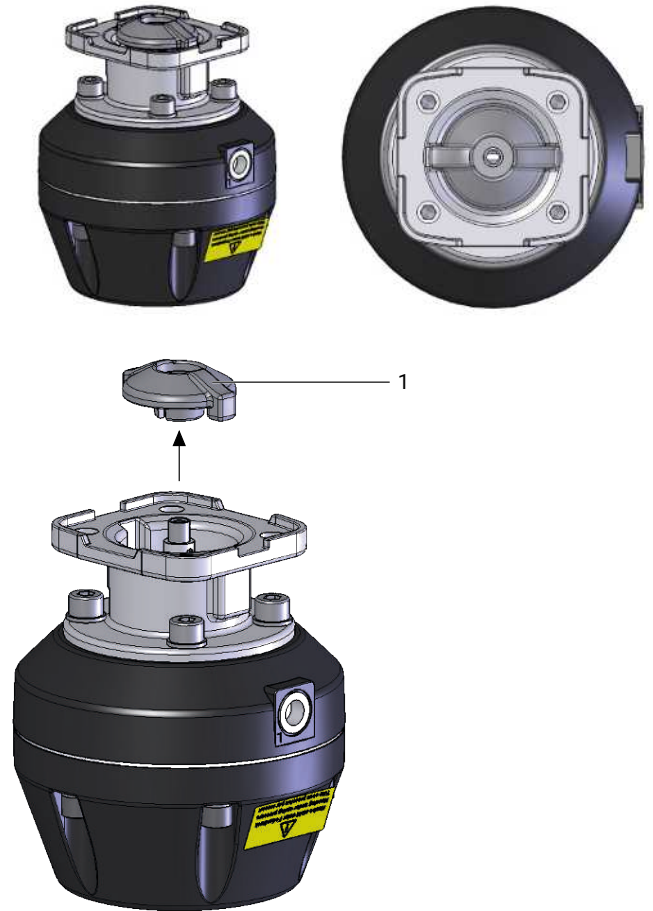
During operation:

9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not described in this document without consulting the manufacturer first.

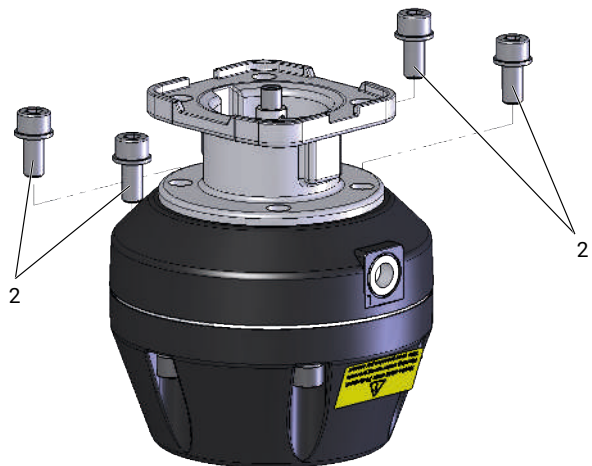
In cases of uncertainty:

15. Consult the nearest GEMÜ sales office.

3 Removing the distance piece

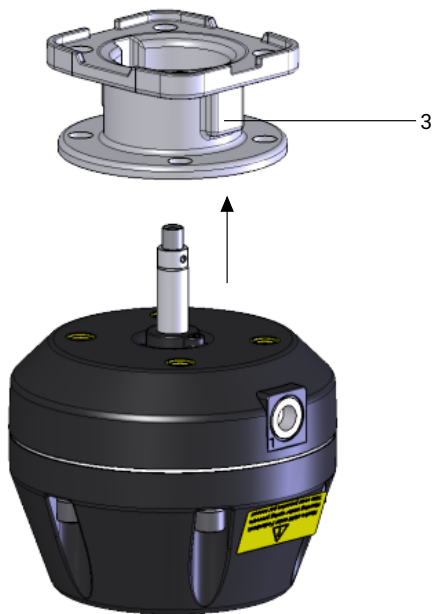


1. Remove the wing compressor (1).

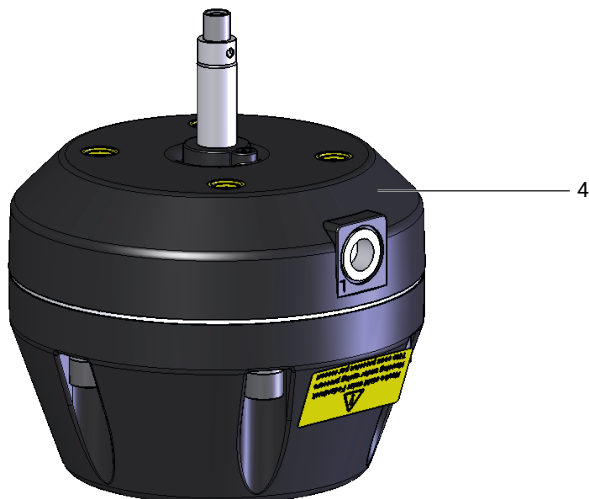


2. Remove the four cylindrical screws (2) using a hexagon wrench.

| Diaphragm size (MG) | Wrench size (WAF) |
|---------------------|-------------------|
| 25 | 6 |
| 40 | 8 |
| 50 | 10 |



3. Remove the old distance piece (3).



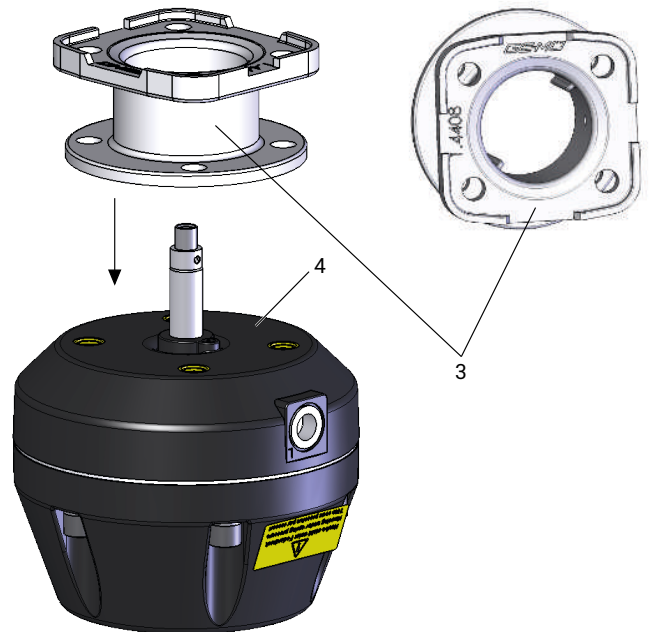
4. Inspect actuator (4) for damage and leaks.

NOTICE

Important:

- Clean all parts of contamination (do not damage the parts during cleaning) following removal. Check parts for potential damage; replace if necessary (only use genuine parts from GEMÜ).

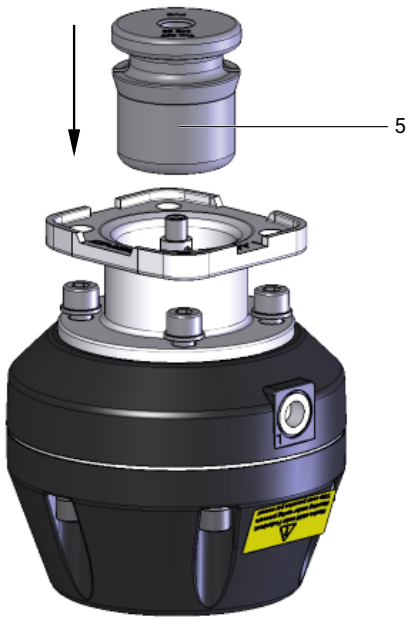
4 Fitting the distance piece



1. Position the new QHD distance piece (3) on the actuator head (4). Make sure the bolt holes are in the correct orientation. The orientation of the leak detection hole varies depending on the installation position.

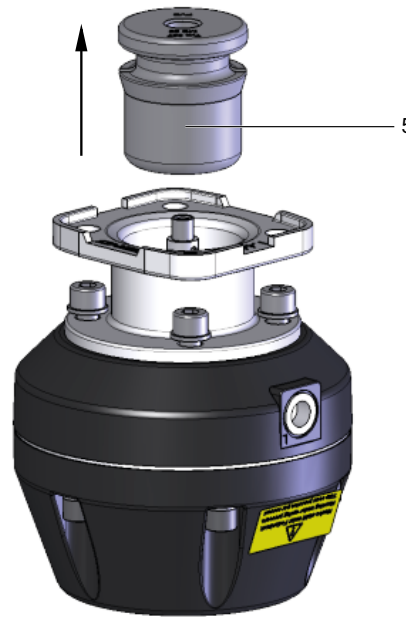


2. Assemble four cylindrical screws (2) with the integrated washer (screw-and-washer assembly).
3. Screw in four cylindrical screws (2) but only loosely so that the QHD distance piece can still move.

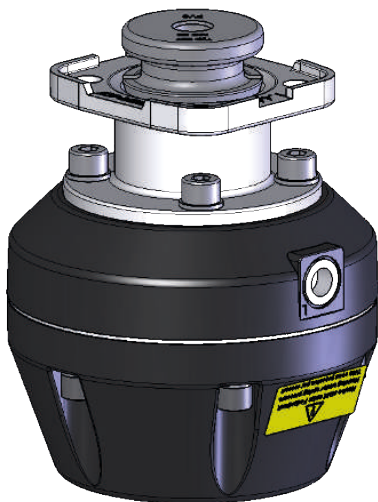


4. Use the assembly aid (5) to centre the QHD distance piece.

| Diaphragm size (MG) | Assembly aid item number |
|---------------------|--------------------------|
| 25 | 99172246 |
| 40 | 99172247 |
| 50 | 99172248 |

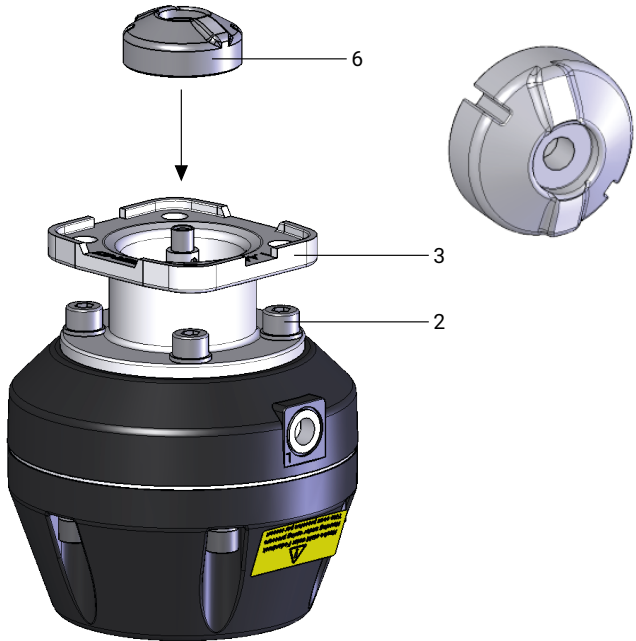


6. Remove assembly aid (5).



5. Once the new QHD distance piece has been centred, the four cylindrical screws must be screwed tight.

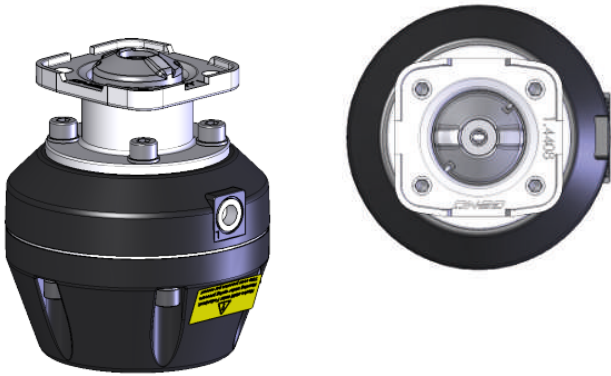
| Diaphragm size (MG) | Torque |
|---------------------|----------|
| 25 | 18–20 Nm |
| 40 | 21–23 Nm |
| 50 | 25–28 Nm |



7. Mount new QHD compressor (6).

| Diaphragm size (MG) | Mounting kit item number* |
|---------------------|---------------------------|
| 25 | 99172249 |
| 40 | 99172250 |
| 50 | 99172251 |

* The mounting kit comprises the QHD compressor (6), the QHD distance piece (3) and the four cylindrical screws (2).



8. The actuator is now converted to the new QHD distance piece with the latest internally guided compressor.



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Subject to alteration

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