

GEMÜ 565

Pneumatically operated control valve

EN

Operating instructions



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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 Definition of terms

Working medium

The medium that flows through the GEMÜ product.

Control function

The possible actuation functions of the GEMÜ product.

Control medium

The medium whose increasing or decreasing pressure causes the GEMÜ product to be actuated and operated.

1.4 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 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! ▶ Non-observance can cause death or severe injury.

⚠ WARNING	
	Potentially dangerous situation! ▶ Non-observance can cause death or severe injury.

⚠ CAUTION	
	Potentially dangerous situation! ▶ Non-observance can cause moderate to light injury.

NOTICE	
	Potentially dangerous situation! ▶ Non-observance can cause damage to property.

The following symbols for the specific dangers can be used within a warning note:

Symbol	Meaning
	Danger - corrosive materials
	Danger - hot surfaces

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 Product description

3.1 Construction



Item	Name	Materials
1	Optical position indicator	
2	Piston actuator	Stainless steel
3	Control medium connector	
4	Valve body	PVC-U, grey / regulating cone PEEK PVDF / regulating cone PEEK
	Seat seal	FKM, EPDM

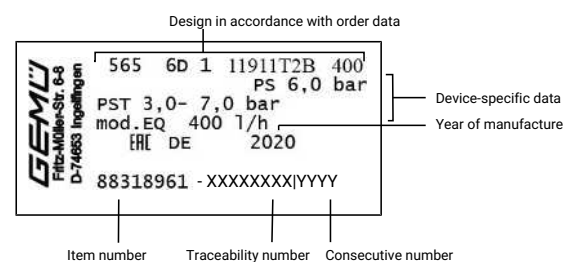
3.2 Description

The GEMÜ 565 2/2-way globe control valve has a stainless steel piston actuator and is pneumatically operated. All actuator parts are made from stainless steel (except seals). It is available with a Normally Closed control function (NC). PVC-U and PVDF are available as valve body materials. The control valve can only be operated with an electro-pneumatic positioner or process controller. Direct or remote mounting of a positioner (GEMÜ 1434, 1435, 1436) is required.

3.3 Function

The product is designed for use in piping. It can be closed or opened by a control medium, which is how it controls the flow.


3.4 Product label



The month of manufacture is encoded in the traceability number and can be obtained from GEMÜ. The product was manufactured in Germany.

4 Correct use

 DANGER	
	Danger of explosion! <ul style="list-style-type: none">▶ Risk of death or severe injury● Do not use the product in potentially explosive zones.

 WARNING	
Improper use of the product! <ul style="list-style-type: none">▶ Risk of severe injury or death▶ Manufacturer liability and guarantee will be void● Only use the product in accordance with the operating conditions specified in the contract documentation and in this document.	

The product is designed for installation in piping systems and for controlling a working medium.

The product is not intended for use in potentially explosive areas.

- Use the product in accordance with the technical data.

5 Order data

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Order codes

1 Type	Code
Control valve, pneumatically operated	565

2 DN	Code
DN 3	3
DN 6	6
DN 10	10
DN 15	15

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
Threaded socket DIN ISO 228	1
Union end with insert (socket) – DIN	7

5 Valve body material	Code
PVC-U, grey / regulating cone PEEK	1
PVDF / regulating cone PEEK	20

6 Seal material	Code
FKM	4
EPDM	19

7 Control function	Code
Normally closed (NC)	1

8 Actuator version	Code
Actuator size 1T2	1T2
Actuator size 1T3	1T3

9 Control characteristic	Code
Assignment (see "Kv value diagrams", page 10)	
Regulating cone, equal-percentage	A
Regulating cone, equal-percentage	B
Regulating cone, equal-percentage	C
Regulating cone, linear	D
Regulating cone, linear	E

10 Kv value	Code
Assignment (see "Kv value diagrams", page 10)	
63 l/h	63
100 l/h	100
160 l/h	160
250 l/h	250
400 l/h	400
630 l/h	630
1000 l/h	1000
1600 l/h	1600
2500 l/h	2500
3300 l/h	3300

Order example

Ordering option	Code	Description
1 Type	565	Control valve, pneumatically operated
2 DN	6	DN 6
3 Body configuration	D	2/2-way body
4 Connection type	1	Threaded socket DIN ISO 228
5 Valve body material	1	PVC-U, grey / regulating cone PEEK
6 Seal material	19	EPDM
7 Control function	1	Normally closed (NC)
8 Actuator version	1T2	Actuator size 1T2
9 Control characteristic	B	Regulating cone, equal-percentage
10 Kv value	400	400 l/h

In order to configure a complete control valve the pneumatically operated basic valve must be paired with an electro-pneumatic positioner. The GEMÜ 1434, 1435 and 1436 positioners and process controllers can be used for this purpose.

You will find below two configuration examples of a complete valve.

Configuration example for a GEMÜ 565 control valve with directly mounted GEMÜ 1434 positioner

GEMÜ type	Order key
GEMÜ 565	565 15 D 1 1 19 1T3 A 250
GEMÜ 1434 positioner	1434 000 Z 1 A 14 1 00 01 010
Mounting kit for direct mounting of positioner	1434S01Z0342010
GEMÜ 1219 cable plug M12	1219 000 Z 00 00DG 00M0 M125 A

Configuration example for a GEMÜ 565 control valve with remotely mounted GEMÜ 1434 positioner

GEMÜ type	Order key
GEMÜ 565	565 15 D 1 1 19 1T3 A 250
GEMÜ 1434 positioner	1434 000 Z 1 A 14 1 00 01 010
Travel sensor for remote mounting	4232 000 Z 14 030 02M0 0000
Mounting kit for remote mounting	4232 S01 Z 292403000
GEMÜ 1219 cable plug M12	1219 000 Z 00 00DG 00M0 M125 A

6 Technical data

6.1 Medium

Working medium: Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and seal material.

Control medium: Inert gases

6.2 Temperature

Media temperature: -20 – 80 °C
Observe pressure/temperature diagram

Control medium temperature: 0 – 70 °C

Ambient temperature: -15 – 55 °C

Storage temperature: 0 – 40 °C

6.3 Pressure

Operating pressure: 0 – 6 bar
All pressures are gauge pressures.

Control pressure: 3 to 7 bar
for actuator size 1T2

Pressure/temperature correlation:

Valve body material		Temperature in °C (valve body)												
Materials	Code	-20	-10	±0	5	10	20	25	30	40	50	60	70	80
PVC-U	1	-	-	-	-	6.0	6.0	6.0	6.0	6.0	3.5	1.5	-	-
PVDF	20	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.4	4.7

Permissible operating pressure in bar

The pressure rating (PN) depends on the connection code.

Data for extended temperature ranges on request. Please note that the ambient temperature and media temperature generate a combined temperature at the valve body which must not exceed the above values.

Filling volume: 0.031 dm³

Leakage rate:

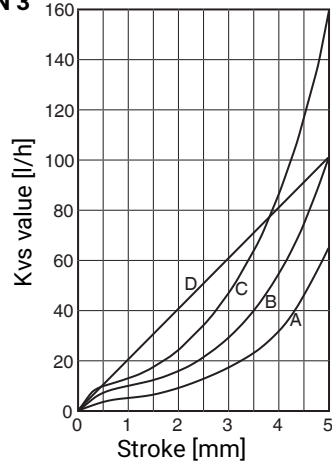
Control valve

Seat seal	Standard	Test procedure	Leakage rate	Test medium
FKM, PTFE	DIN EN 60534-4	1	VI	Air

Kv values:

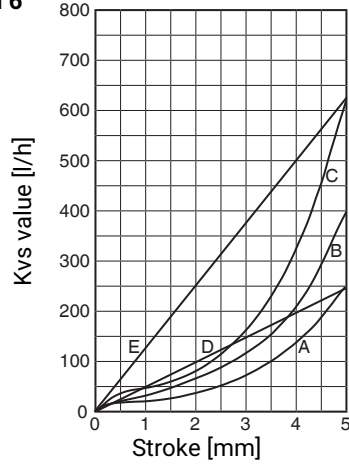
Control characteristic

DN 3



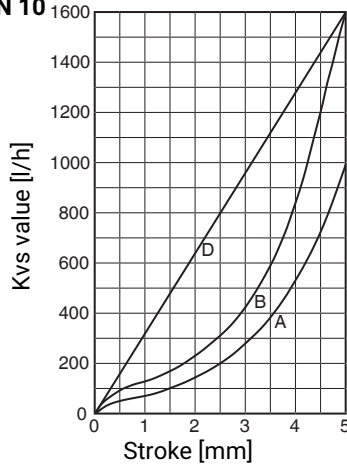
Control characteristic

DN 6



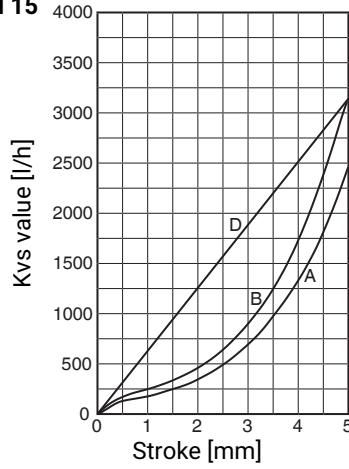
Control characteristic

DN 10



Control characteristic

DN 15



DN	Control characteristic (code)				
Seat Ø [mm]	A	B	C	D	E
3	63.0	100.0	160.0	100.0	-
6	250.0	400.0	630.0	250.0	630.0
10	1000.0	1600.0	-	1600.0	-
15	2500.0	3300.0	-	3300.0	-

Kv values in l/h

Tolerance ± 10 %

6.4 Product compliance

Machinery Directive: 2006/42/EC

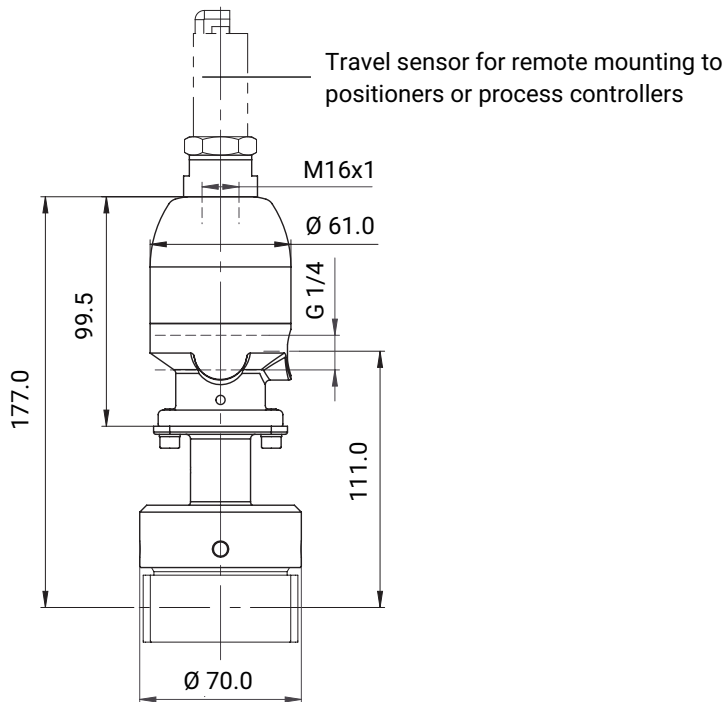
EAC: TR CU 010/2011
TR CU 004/2011

6.5 Mechanical data

Weight: 1.50 kg

7 Dimensions

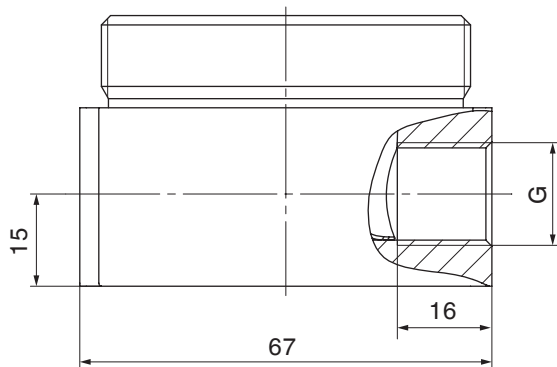
7.1 Overall dimensions



Dimensions in mm

7.2 Body dimensions

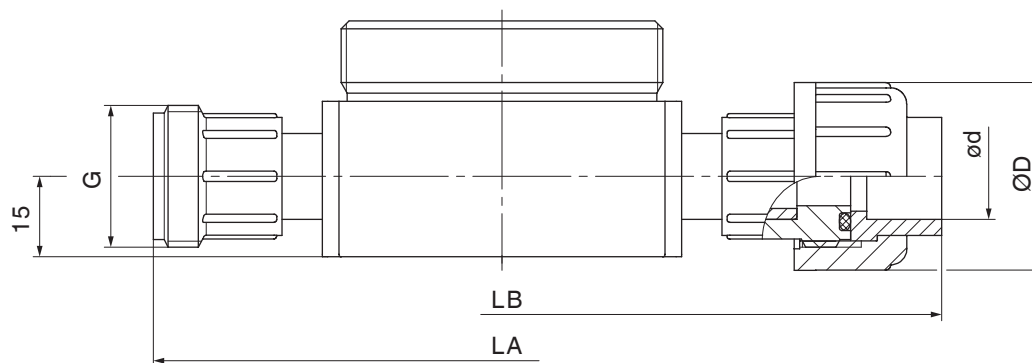
7.2.1 Threaded socket - DIN ISO 228 (code 1)



DN (seat)	G
3	G 3/8
6	G 3/8
10	G 3/8
15	G 1/2

Dimensions in mm

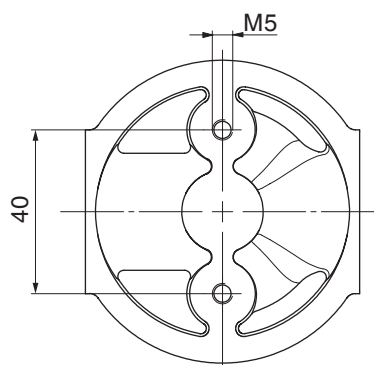
7.2.2 Union end with insert (socket) - DIN (code 7)



DN	G	ØD	ød	LA	LB
3	G 3/4	35.0	16.0	130.0	164.0
6	G 3/4	35.0	16.0	130.0	164.0
10	G 3/4	35.0	16.0	130.0	164.0
15	G 1	43.0	20.0	130.0	168.0

Dimensions in mm

7.3 Valve body mounting



Dimensions in mm

8 Manufacturer's information

8.1 Delivery

- Check that all parts are present and check for any damage immediately upon receipt.

The product's performance is tested at the factory. The scope of delivery is apparent from the dispatch documents and the design from the order number.

Control function	Function	Condition as supplied to customer
1	Normally closed (NC)	closed

8.2 Packaging

The product is packaged in a cardboard box which can be recycled as paper.

8.3 Transport

1. Only transport the product by suitable means. Do not drop. Handle carefully.
2. After the installation dispose of transport packaging material according to relevant local or national disposal regulations / environmental protection laws.

8.4 Storage

1. Store the product free from dust and moisture in its original packaging.
2. Avoid UV rays and direct sunlight.
3. Do not exceed the maximum storage temperature (see chapter "Technical data").
4. Do not store solvents, chemicals, acids, fuels or similar fluids in the same room as GEMÜ products and their spare parts.

9 Installation in piping


9.1 Preparing for installation

⚠ WARNING

The equipment is subject to pressure!

- ▶ Risk of severe injury or death
- Depressurize the plant.
- Completely drain the plant.


⚠ WARNING



Corrosive chemicals!

- ▶ Risk of caustic burns
- Wear appropriate protective gear.
- Completely drain the plant.

⚠ CAUTION



Hot plant components!

- ▶ Risk of burns
- Only work on plant that has cooled down.

⚠ CAUTION

Leakage

- ▶ Emission of dangerous materials.
- Provide precautionary measures against exceeding the maximum permitted pressures caused by pressure surges (water hammer).

⚠ CAUTION

Exceeding the maximum permissible pressure.

- ▶ Damage to the product
- Provide precautionary measures against exceeding the maximum permitted pressures caused by pressure surges (water hammer).

⚠ CAUTION

Use as step.

- ▶ Damage to the product
- ▶ Risk of slipping-off
- Choose the installation location so that the product cannot be used as a foothold.
- Do not use the product as a step or a foothold.

NOTICE

Suitability of the product!

- ▶ The product must be appropriate for the piping system operating conditions (medium, medium concentration, temperature and pressure) and the prevailing ambient conditions.

NOTICE

Tools

- ▶ The tools required for installation and assembly are not included in the scope of delivery.
 - Use appropriate, functional and safe tools.
1. Ensure the product is suitable for the relevant application.
 2. Check the technical data of the product and the materials.
 3. Keep appropriate tools ready.
 4. Wear appropriate protective gear, as specified in the plant operator's guidelines.
 5. Observe appropriate regulations for connections.
 6. Have installation work carried out by trained personnel.
 7. Shut off plant or plant component.
 8. Secure plant or plant component against recommissioning.
 9. Depressurize the plant or plant component.
 10. Completely drain the plant (or plant component) and let it cool down until the temperature is below the media vaporization temperature and cannot cause scalding.
 11. Correctly decontaminate, rinse and ventilate the plant or plant component.
 12. Lay piping so that the product is protected against transverse and bending forces, and also from vibrations and tension.
 13. Only install the product between matching aligned pipes (see chapters below).
 14. Please note the flow direction (see chapter "Flow direction").
 15. Please note the installation position (see chapter "Installation position").

9.2 Installation position

The installation position of the product is optional.

9.3 Installation with threaded sockets

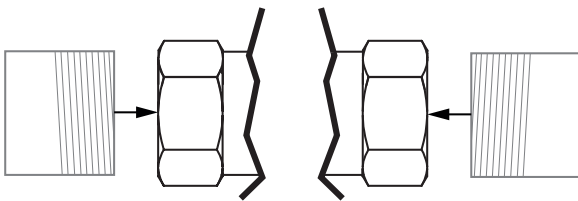


Fig. 1: Threaded socket

NOTICE

Sealing material

- ▶ The sealing material is not included in the scope of delivery.
 - Only use appropriate sealing material.
1. Keep thread sealant ready.
 2. Carry out preparations for installation (see chapter "Preparing for installation").
 3. Screw the threaded connections into the pipe in accordance with valid standards.
 4. Screw the body of the product onto the piping using appropriate thread sealant.
 5. Re-attach or reactivate all safety and protective devices.

9.4 Installation with union ends

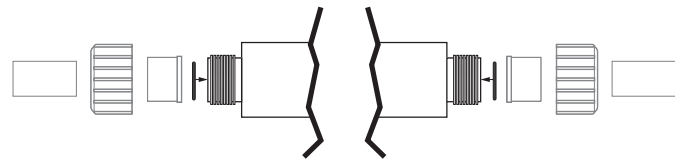


Fig. 2: Union end with insert

NOTICE

- ▶ The solvent cement is not included in the scope of delivery.
 - Only use suitable solvent cement!
1. Carry out preparations for installation (see chapter "Preparations for installation").
 2. Depending on the application, comply with the welding standards and the specifications of the solvent cement manufacturer for adhesive bonds.
 3. Screw the threaded connections into the piping in accordance with valid standards.
 4. Unscrew the union nut from the body of the product.
 5. Reinsert the O-ring if necessary.
 6. Push the union nut over the piping.
 7. Connect the insert with the piping by solvent cementing/welding.
 8. Screw the union nut back onto the body of the product.
 9. Connect the other side of the body of the product with the piping in the same way.
 10. Reactivate all safety and protective devices.

9.5 After the installation

- Re-attach or reactivate all safety and protective devices.

10 Pneumatic connections

10.1 Control function

The following control function is available:

Control function 1

Normally closed (NC):

Valve resting position: closed by spring force. Activation of the actuator (connector 2) opens the valve. When the actuator is vented, the valve is closed by spring force.



10.2 Connecting the control medium

1. Use suitable connectors.
2. Connect the control medium lines tension-free and without any bends or knots.

Thread size of the control medium connector: G1/4

Control function	Connectors
1 Normally closed (NC)	2: Control medium (open)
For connector 2 see figure above	

11 Mounting, connecting and setting the positioner

See positioner operating instructions.

12 Commissioning

⚠ WARNING



Corrosive chemicals!

- ▶ Risk of caustic burns
- Wear appropriate protective gear.
- Completely drain the plant.

⚠ CAUTION

Leakage

- ▶ Emission of dangerous materials.
- Provide precautionary measures against exceeding the maximum permitted pressures caused by pressure surges (water hammer).

⚠ CAUTION

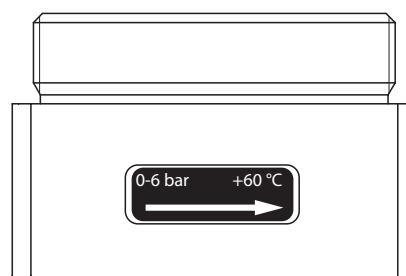
Cleaning agent

- ▶ Damage to the GEMÜ product.
- The plant operator is responsible for selecting the cleaning material and performing the procedure.

1. Check the tightness and the function of the product (close and reopen the product).
2. Flush the piping system of new plant and following repair work (the product must be fully open).
 - ⇒ Harmful foreign matter has been removed.
 - ⇒ The product is ready for use.
3. Commission the product.
4. Commissioning of actuators in accordance with the enclosed instructions.

13 Operation

The flow direction is indicated by an arrow on an adhesive label on the valve body:



Operate the product according to the control function (see also chapter "Pneumatic connections").

13.1 Control function 1

In its resting position, the product is closed by spring force.

1. Activate the actuator via control medium connector 2.
 - ⇒ The product opens.
2. Vent the actuator via control medium connector 2.
 - ⇒ The product closes.

14 Troubleshooting

Error	Error cause	Troubleshooting
Control medium escaping from vent and leak detection hole	Actuator* faulty	Check control medium for impurities, send the product to GEMÜ for repair if necessary
Working medium escaping from vent and leak detection hole	Isolating diaphragm* faulty	Send the product to GEMÜ for repair
The product does not open or does not open fully	Control pressure too low (for control function NC)	Operate the product with the control pressure specified in the datasheet
	Control medium not connected	Connect control medium
	Actuator* faulty	Send the product to GEMÜ for repair and check the control medium for impurities
	Positioner faulty	Replace positioner
	Positioner not connected	Connect positioner
The product is leaking downstream (does not close or does not close fully)	Operating pressure too high	Operate the product with operating pressure specified in datasheet
	Foreign matter between regulating cone and seat	Send valve to GEMÜ for repair
	Valve body leaking or damaged	Send valve to GEMÜ for repair
	Regulating cone damaged	Send valve to GEMÜ for repair
	Actuator defective	Send valve to GEMÜ for repair
The product is leaking between actuator and valve body	Union nut loose	Retighten union nut
	Isolating diaphragm faulty	Send valve to GEMÜ for repair
	Valve body / actuator damaged	Send valve to GEMÜ for repair
Connection between valve body and piping leaking	Incorrect installation	Check installation of valve body in piping
	Threaded connections / unions loose	Tighten threaded connections / unions
	Sealing material faulty	Replace sealing material
Valve body connection to piping is leaking	Gasket faulty	Replace gasket
Valve body leaking	Valve body leaking or corroded	Check valve body for damage, send valve to GEMÜ for repair if necessary

* see chapter "Spare parts"

15 Inspection and maintenance

⚠ WARNING

The equipment is subject to pressure!

- ▶ Risk of severe injury or death
- Depressurize the plant.
- Completely drain the plant.

⚠ CAUTION



Hot plant components!

- ▶ Risk of burns
- Only work on plant that has cooled down.

The operator must carry out regular visual examination of the GEMÜ products depending on the operating conditions and the potential danger in order to prevent leakage and damage.

1. Have servicing and maintenance work performed by trained personnel.
2. Wear appropriate protective gear as specified in the plant operator's guidelines.
3. Shut off plant or plant component.
4. Secure the plant or plant component against recommissioning.
5. Depressurize the plant or plant component.

15.1 Fitting/removing spare parts

⚠ CAUTION

Do not dismantle the product!

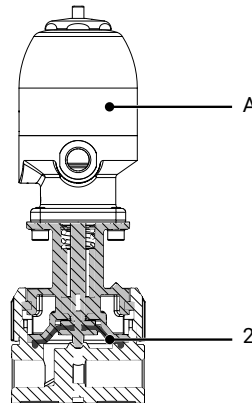
- ▶ Non-observance can cause damage to the product.
- Send the complete product to GEMÜ.
- Observe the chapter "Returns".

NOTICE

The product can only be repaired at GEMÜ.

- ▶ If this procedure is not observed, the purchaser's guarantee rights and the manufacturer's legal liability cease. This can also lead to a loss of all rights to claim damages.
- The replacement of spare parts may only be carried out by GEMÜ (exception: Isolating diaphragm).
- Remove the complete product from the plant using suitable means and send it to GEMÜ.

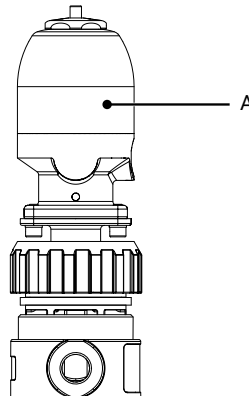
15.2 Spare parts



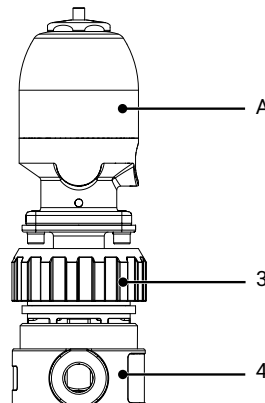
Item	Designation
A	Actuator
2	Isolating diaphragm

15.2.1 Replacing the isolating diaphragm

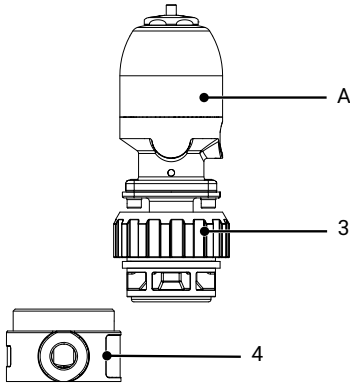
1. Move the actuator **A** to the open position.



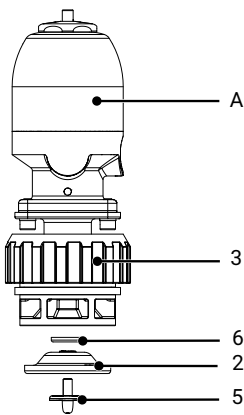
2. Undo union nut **3** of valve body **4**.



3. Remove valve body 4.



4. Dismantle regulating cone 5, isolating diaphragm 2 and washer 6 from the valve.



5. Check parts for potential damage.
6. Replace the isolating diaphragm 2.
7. Reassemble the parts in reverse order (tightening regulating cone 5, isolating diaphragm 2 and washer 6 until they are hand tight).

16 Removal from piping

1. Remove in reverse order to installation.
2. Deactivate the control medium.
3. Disconnect the control medium line(s).
4. Disassemble the product. Observe warning notes and safety information.

17 Disposal

1. Pay attention to adhered residual material and gas diffusion from penetrated media.
2. Dispose of all parts in accordance with the disposal regulations/environmental protection laws.

18 Returns

Legal regulations for the protection of the environment and personnel require that the completed and signed return delivery note is included with the dispatch documents. Returned goods can be processed only when this note is completed. If no return delivery note is included with the product, GEMÜ cannot process credits or repair work but will dispose of the goods at the operator's expense.

1. Clean the product.
2. Request a return delivery note from GEMÜ.
3. Complete the return delivery note.
4. Send the product with a completed return delivery note to GEMÜ.

19 Declaration of Incorporation according to the EC Machinery Directive 2006/42/EC, Annex II, 1.B

Declaration of Incorporation

according to the EC Machinery Directive 2006/42/EC, Annex II, 1.B for partly completed machinery

Manufacturer: GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Postfach 30
Fritz-Müller-Straße 6-8
D-74653 Ingelfingen-Criesbach

Description and identification of the partly completed machinery:

Make: GEMÜ Globe valve, pneumatically operated
Serial number: from December 29, 2009
Project number: SV-Pneum-2009-12
Commercial name: Type 565

We hereby declare that the following essential requirements of the Machinery Directive 2006/42/EC have been fulfilled:

1.1.3.; 1.1.5.; 1.1.7.; 1.2.1.; 1.3.; 1.3.2.; 1.3.3.; 1.3.4.; 1.3.7.; 1.3.9.; 1.5.3.; 1.5.5.; 1.5.6.; 1.5.7.; 1.5.8.; 1.5.9.; 1.6.5.; 2.1.1.; 3.2.1.; 3.2.2.; 3.3.2.; 3.4.4.; 3.6.3.1.; 4.1.2.1.; 4.1.2.3.; 4.1.2.4.; 4.1.2.5.; 4.1.2.6. a); 4.1.2.6. b); 4.1.2.6. c); 4.1.2.6. d); 4.1.2.6. e); 4.1.3.; 4.2.1.; 4.2.1.4.; 4.2.2.; 4.2.3.; 4.3.1.; 4.3.2.; 4.3.3.; 4.4.1.; 4.4.2.; 5.3.; 5.4.; 6.1.1.; 6.3.3.; 6.4.1.; 6.4.3.

We also declare that the specific technical documentation has been compiled in accordance with part B of Annex VII.

We expressly declare that the partly completed machinery complies with the relevant provisions of the following EC directives:

2006/42/EC:2006-05-17: (Machinery Directive) Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast) (1)

The manufacturer or his authorised representative undertake to transmit, in response to a reasoned request by the national authorities, relevant information on the partly completed machinery. This transmission takes place:

electronically

This does not affect the intellectual property rights!

Important note! The partly completed machinery may be put into service only if it was determined, where appropriate, that the machinery into which the partly completed machinery is to be installed meets the provisions of this Directive.



Joachim Brien
Head of Technical Department

Ingelfingen-Criesbach, February 2013



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Subject to alteration

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