

GEMÜ Q40

Pneumatically operated pinch valve

EN

Operating instructions



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Contents

1	General information	4
1.1	Information	4
1.2	Symbols used	4
1.3	Definition of terms	4
1.4	Warning notes	4
1.5	Safety information on the product	5
2	Safety information	5
3	Product description	6
3.1	Construction	6
3.2	Description	6
3.3	Function	6
3.4	Product label	6
4	Correct use	7
5	Order data	8
6	Technical data	9
6.1	Medium	9
6.2	Temperature	9
6.3	Pressure	9
6.4	Actuator data	9
6.5	Product compliance	9
6.6	Mechanical data	9
7	Dimensions	10
7.1	Actuator size 0P1	10
7.2	Actuator size 1P1	11
7.3	Actuator size 2P1	12
7.4	Valve body, without mounting flange	13
8	Manufacturer's information	14
8.1	Delivery	14
8.2	Packaging	14
8.3	Transport	14
8.4	Storage	14
9	Installation	14
9.1	Preparing for installation	14
9.2	Installation position	14
9.3	Mounting without mounting flange	15
9.4	Mounting with mounting flange	15
9.5	Pneumatic connection	15
10	Inspection and maintenance	16
10.1	Spare parts	17
10.2	Removing the tube	17
10.3	Disassembling the tube holder	18
10.4	Disassembling the compressor	18
10.5	Installing the compressor	18
10.6	Assembling the tube holder	18
10.7	Inserting the tube	19
11	Troubleshooting	19
12	Removal	19
13	Disposal	19
14	Returns	19
15	Declaration of Incorporation according to 2006/42/EC (Machinery Directive)	21

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 tube.

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	<p>Type and source of the danger</p> <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	
	<p>Imminent danger!</p> <ul style="list-style-type: none"> ▶ Non-observance can cause death or severe injury.
WARNING	
	<p>Potentially dangerous situation!</p> <ul style="list-style-type: none"> ▶ Non-observance can cause death or severe injury.

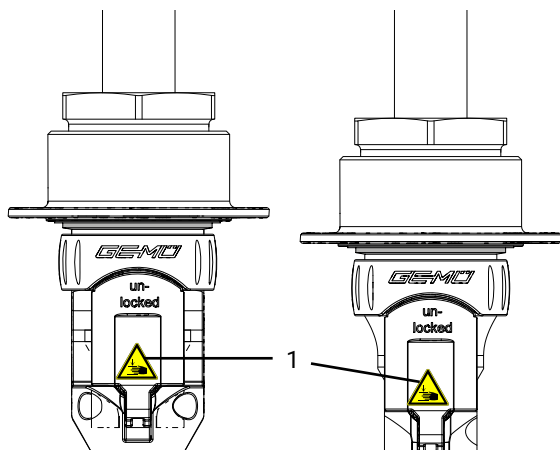
CAUTION	
	<p>Potentially dangerous situation!</p> <ul style="list-style-type: none"> ▶ Non-observance can cause moderate to light injury.

NOTICE	
	<p>Potentially dangerous situation!</p> <ul style="list-style-type: none"> ▶ Non-observance can cause damage to property.

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

Symbol	Meaning
	Danger of explosion!
	Corrosive chemicals!
	Hot plant components!
	Risk of crushing!
	Risk of crushing due to the compressor shutting down!

1.5 Safety information on the product



Item	Symbol	Meaning
1		Risk of crushing! - Do not reach into the tube crushing area.

Missing or illegible adhesive labels on the product must be attached or replaced.

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:

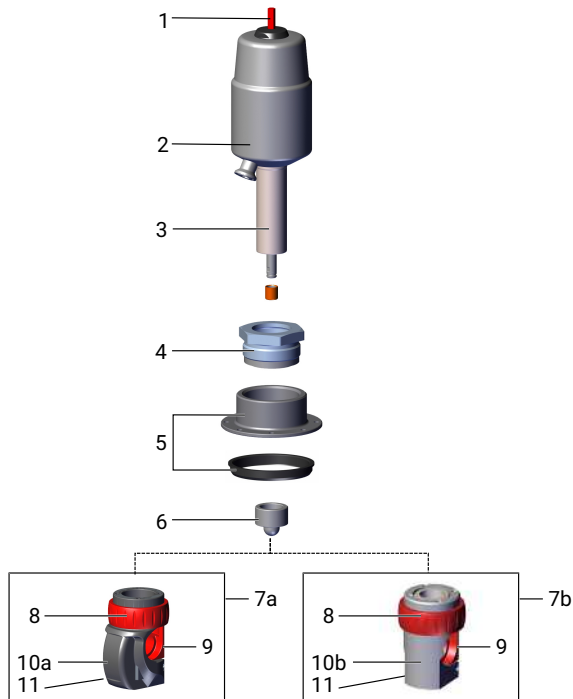
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not 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	PP
2	Actuator	Stainless steel
3	Distance piece with leak detection hole	Stainless steel
4	Union nut	Stainless steel
5	Distance piece with mounting flange including EPDM seal	Stainless steel
6	Compressor	Stainless steel
7a	Valve body	PA6
7b	Valve body	Stainless steel/PA6
8	Locking ring	PA6
9	Tube holder	PA6
10a	Tube carrier	PA6
10b	Tube carrier	Stainless steel
11	CONEXO RFID chip	

3.2 Description

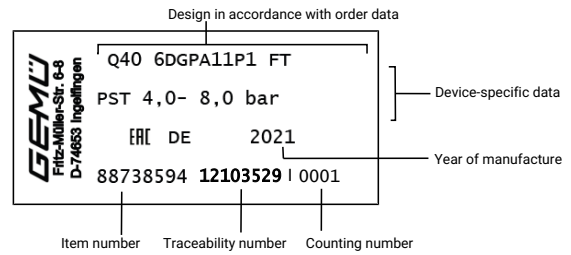
The GEMÜ Q40 2/2-way pinch valve has a stainless steel piston actuator and is pneumatically operated. The valve guides a tube which is compressed from above by a compressor to control and regulate media. The compressor's specially developed contour and the inserts' contour minimize the strain on the tube and thus increase the tubes' service life. Tubes can be safely inserted and removed in simple steps and without tools. The available control functions are "normally closed (NC)" and "normally open (NO)". An integral optical position indicator is standard.

3.3 Function

The product controls a flowing medium by being closed or opened by a control medium.

3.4 Product label

The product label is located on the actuator. Product label data (example):



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!

- ▶ Risk of death or severe injury
- Do **not** use the product in potentially explosive zones.

WARNING

Improper use of the product!

- ▶ 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.

NOTICE

Suitability of the product!

- ▶ The product must be appropriate for the tube's operating conditions (medium, medium concentration, temperature and pressure) and the respective ambient conditions.

The product is designed to control a working medium guided in a tube.

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
Pinch valve, pneumatically operated, stainless steel piston actuator	Q40

2 Tube inside diameter	Code
3.180 mm (1/8") inside diameter	2
6.350 mm (1/4") inside diameter	4
9.530 mm (3/8") inside diameter	6
12.700 mm (1/2") inside diameter	8
19.050 mm (3/4") inside diameter	12
25.400 mm (1") inside diameter	16

3 Tube outside diameter	Code
6.350 mm (1/4") outside diameter	DA
9.530 mm (3/8") outside diameter	DC
11.110 mm (7/16") outside diameter	DD
12.700 mm (1/2") outside diameter	DE
15.880 mm (5/8") outside diameter	DG
19.100 mm (3/4") outside diameter	DH
22.230 mm (7/8") outside diameter	DI
28.580–29.970 mm (1 1/8–1 3/16") outside diameter	DK
35.690–38.100 mm (1 13/32–1 1/2") outside diameter	DN

4 Tube carrier version	Code
Plastic design, stainless steel tube carrier and PA tube holder	7P
Plastic design, PA tube carrier and PA tube holder	PA

5 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2

6 Actuator version	Code
Actuator size 0P1	0P1
Actuator size 1P1	1P1
Actuator size 2P1	2P1

7 Mounting option	Code
Without mounting flange, with 4 x threaded hole in body	0
With mounting flange below	FB
With mounting flange above	FT

8 CONEXO	Code
Without	
Integrated RFID chip for electronic identification and traceability	C

Order example

Ordering option	Code	Description
1 Type	Q40	Pinch valve, pneumatically operated, stainless steel piston actuator
2 Tube inside diameter	8	12.700 mm (1/2") inside diameter
3 Tube outside diameter	DH	19.100 mm (3/4") outside diameter
4 Tube carrier version	7P	Plastic design, stainless steel tube carrier and PA tube holder
5 Control function	1	Normally closed (NC)
6 Actuator version	1P1	Actuator size 1P1
7 Mounting option	0	Without mounting flange, with 4 x threaded hole in body
8 CONEXO		Without

6 Technical data

6.1 Medium

Working medium: Please observe the tube manufacturer's specifications

Control medium: Inert gases

6.2 Temperature

Media temperature: Please observe the tube manufacturer's specifications

Ambient temperature: Actuator: 0 – 60 °C, Tube: Please observe the tube manufacturer's specifications

Control medium temperature: max. 60 °C

Storage temperature: 0 – 60 °C

6.3 Pressure

Operating pressure: max. 6 bar
Please observe the tube manufacturer's specifications

Control pressure: Normally closed (NC) 4 – 8 bar
Normally open (NO) 2.5 – 4 bar

6.4 Actuator data

Filling volume: Actuator size 0P1 0.025 dm³
Actuator size 1P1 0.084 dm³
Actuator size 2P1 0.437 dm³

Piston diameter: Actuator size 0P1 42 mm
Actuator size 1P1 60 mm
Actuator size 2P1 100 mm

6.5 Product compliance

Machinery Directive: 2006/42/EC

6.6 Mechanical data

Weight:

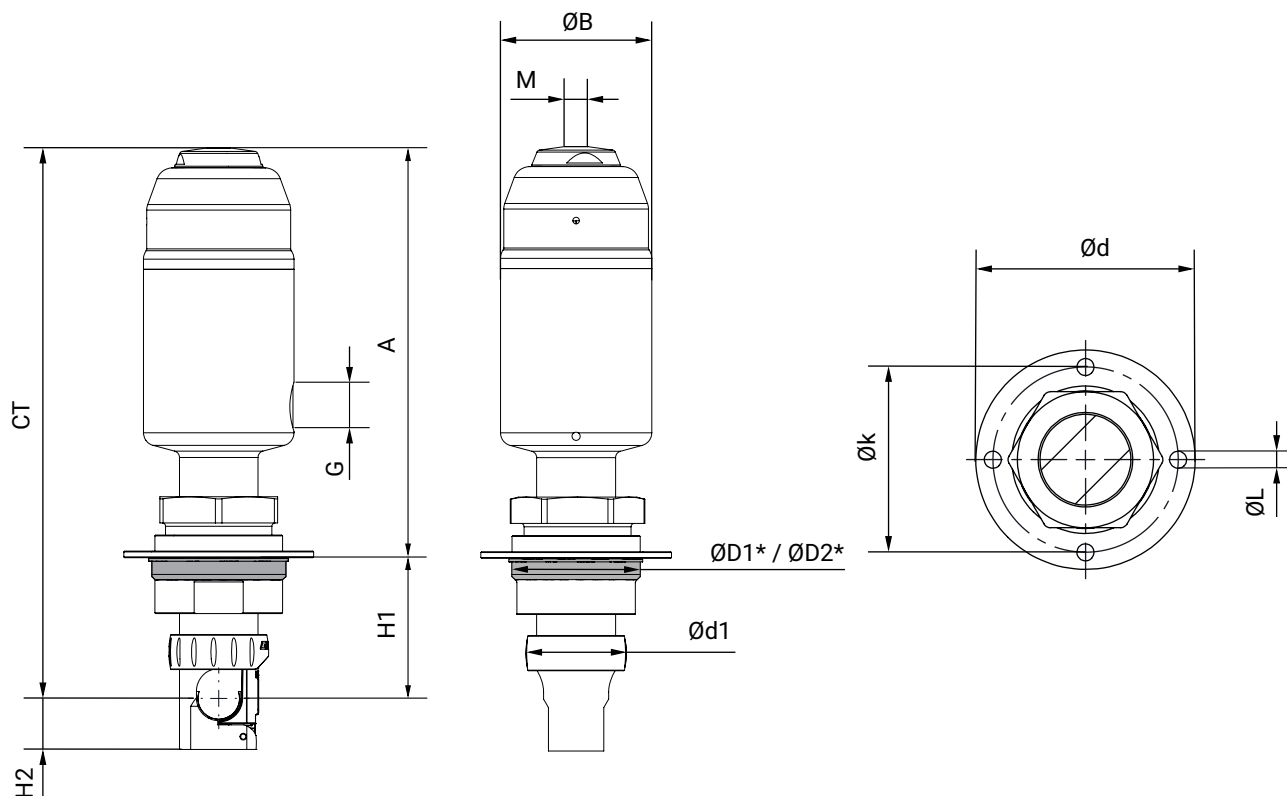
Actuator size	Mounting flange	Tube holder	
		Stainless steel/PA6	PA6
0P1	FT	0.92	-
	0	0.90	-
1P1	FT	1.60	1.44
	0	1.50	1.34
2P1	FB	6.30	-
	0	6.08	-

Weights in kg

Installation position: Optional

7 Dimensions

7.1 Actuator size 0P1

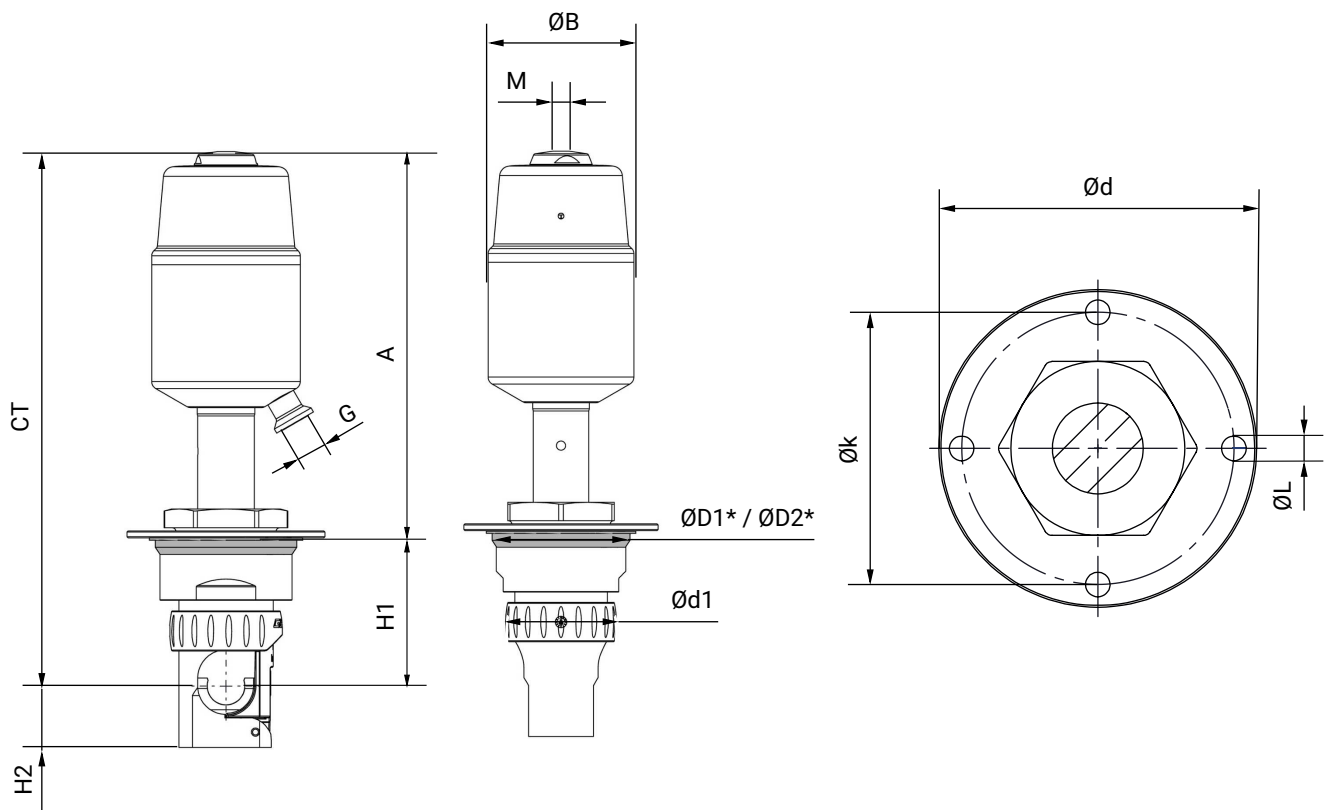


A	ØB	CT	ØD1*	ØD2*	Ød	Ød1	G	H1	H2	Øk	ØL	M
127.0	46.0	170.0	39.0	42.0	58.0	30.5	G1/8	43.0	15.6	49.0	4.5	M16x1

Dimensions in mm

* D1 = diameter without seal, D2 = diameter with seal

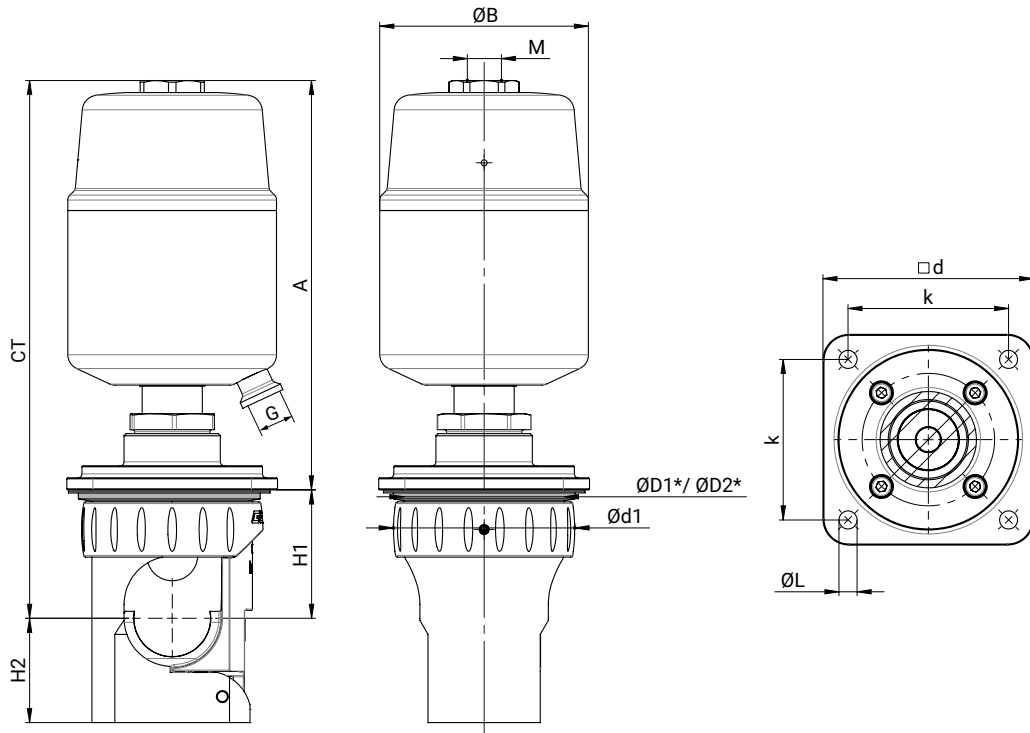
7.2 Actuator size 1P1



Valve body code	A	ØB	CT	ØD1*	ØD2*	Ød	Ød1	G	H1	H2	Øk	ØL	M
7P	164.0	63.0	227.0	56.0	60.0	84.0	47.8	G1/8	63.0	26.0	72.0	6.5	M16x1
PA	164.0	63.0	227.0	56.0	60.0	84.0	47.8	G1/8	63.0	34.0	72.0	6.5	M16x1

Dimensions in mm

* D1 = diameter without seal, D2 = diameter with seal

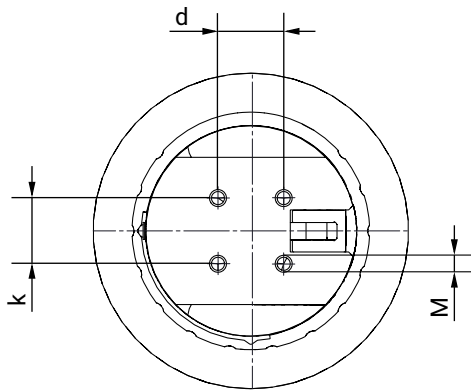
7.3 Actuator size 2P1

A	Dia. B	CT	Dia. D1*	Dia. D2*	d	Dia. d1	G	H1	H2	k	Dia. L	M
206.0	104.0	270.0	80.0	92.0	105.0	90.4	G1/4	64.0	52.0	80.0	9.0	M22x1.5

Dimensions in mm

* D1 = diameter without seal, D2 = diameter with seal

7.4 Valve body, without mounting flange



Actuator size	d	k	M
0P1	7.0	7.0	M2
1P1	12.0	12.0	M4
2P1	25.0	25.0	M6

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.

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

9.1 Preparing for installation

 WARNING	
The equipment is subject to pressure!	
<ul style="list-style-type: none"> ▶ Risk of severe injury or death ● Depressurize the plant or plant component. ● Completely drain the plant or plant component. 	

 WARNING	
	Corrosive chemicals!
	<ul style="list-style-type: none"> ▶ Risk of caustic burns ● Wear appropriate protective gear. ● Completely drain the plant.

 CAUTION	
	Hot plant components!
	<ul style="list-style-type: none"> ▶ Risk of burns ● Only work on plant that has cooled down.

 CAUTION
Use as step!
<ul style="list-style-type: none"> ▶ 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!
<ul style="list-style-type: none"> ▶ The product must be appropriate for the tube's operating conditions (medium, medium concentration, temperature and pressure) and the respective ambient conditions.

NOTICE
Requirements for tube lines used!
<ul style="list-style-type: none"> ▶ Use tube lines suitable for the application, see manufacturer's information. ● Only use undamaged tube lines.

NOTICE
Lay tube lines professionally!
<ul style="list-style-type: none"> ▶ Lay tube lines professionally and do not bend them below the minimum bending radius, see manufacturer's information. ● Do not kink or twist the tube lines.

NOTICE
Tools!
<ul style="list-style-type: none"> ▶ 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. Use appropriate protective gear as specified in plant operator's guidelines.
5. Observe appropriate regulations for connections.
6. Installation work must be performed by trained personnel.
7. Shut off plant or plant component.
8. Secure the plant or plant component against recommissioning.
9. Depressurize the plant or plant component.
10. Completely drain the plant or plant component and allow it to cool down until the temperature is below the media vaporization temperature and cannot cause scalding.
11. Pay attention to the installation position (see chapter "Installation position").

9.2 Installation position

The installation position of the product is optional.

9.3 Mounting without mounting flange

1. Before mounting the valve body, machine the housing in accordance with the borehole pattern in the chapter "Dimensions" so that the valve body can be secured to the housing.
2. Secure the valve body to the housing using four screws.
3. Re-attach or reactivate all safety and protective devices.

9.4 Mounting with mounting flange

1. Before mounting the actuator, machine the housing in accordance with the borehole pattern in the chapter "Dimensions" so that the valve body can be guided through the recess.
2. Guide the valve body through the recess in the housing. The actuator's mounting flange must be flush with the housing.
3. Connect the mounting flange and housing using appropriate screws and washers (not included in the scope of delivery).

9.5 Pneumatic connection

The following types are available:

Normally closed (NC):

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

Normally open (NO):

Actuator resting position: opened by spring force. Activation of the actuator (connector 4) closes the actuator. When the actuator is vented, the actuator is opened by spring force.

Control function	Control medium connector 2 (open)	Control medium connector 4 (close)
1 (NC)	+	-
2 (NO)	-	+

+ = available

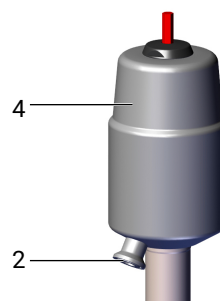
- = not available

9.5.1 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 connectors: G1/8

	Control function	Connections
1	Normally closed (NC)	2: Control medium (open)
2	Normally open (NO)	4: Control medium (close)

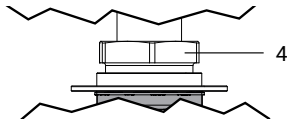


3. If necessary, remove the blanking plug from the control medium connector.
4. Control function 1: Screw the control medium line into control medium connector 2 of the actuator.
5. Control function 2: Screw the control medium line into control medium connector 4 of the actuator.

9.5.2 Turning the actuator

NOTICE

▶ Actuators can be turned for positioning of the connections.



1. Undo union nut 4.
2. Turn the actuator to the desired position.
3. Tighten union nut 4 (see table for torques).

Actuator size	Torque
0P1	Max. 20 Nm
1P1	Max. 30 Nm
2P1	Max. 50 Nm

10 Inspection and maintenance

⚠ WARNING

The equipment is subject to pressure!

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

⚠ CAUTION

Use of incorrect spare parts!

- ▶ Damage to the GEMÜ product
- ▶ Manufacturer liability and guarantee will be void.
- Use only genuine parts from GEMÜ.

⚠ CAUTION

Hot plant components!

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

⚠ CAUTION

Risk of crushing!

- ▶ Risk of severe injury
- Before performing any work on the GEMÜ product, depressurize the plant.

NOTICE

Requirements for tube lines used!

- ▶ Use tube lines suitable for the application, see manufacturer's information.
- Only use undamaged tube lines.

NOTICE

Lay tube lines professionally!

- ▶ Lay tube lines professionally and do not bend them below the minimum bending radius, see manufacturer's information.
- Do not kink or twist the tube lines.

NOTICE

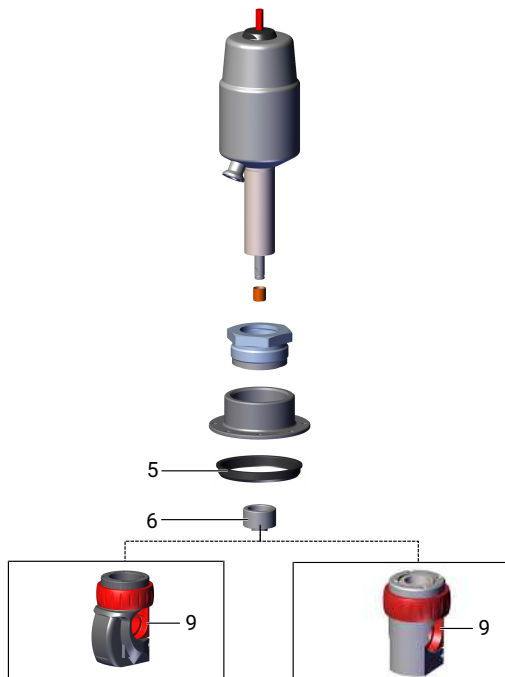
Exceptional maintenance work!

- ▶ Damage to the GEMÜ product
- Any maintenance work and repairs not described in these operating instructions must not be performed without consulting the manufacturer first.

The operator must carry out regular visual examination of the GEMÜ products dependent on the operating conditions and the potential danger in order to prevent leakage and damage. The product also must be disassembled and checked for wear in the corresponding intervals.

1. Have servicing and maintenance work performed by trained personnel.
2. Wear appropriate protective gear as specified in 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.
6. Actuate GEMÜ products which are always in the same position four times a year.

10.1 Spare parts



Item	Name	Item number	Designation
5	Sealing ring	88855875	Q00 DR 0P1
		88855876	Q00 DR 1P1
		88855877	Q00 DR 2P1
6, 9	Compressor, tube holder	88855849	Q00 2DASD
		88855851	Q00 2DCSD
		88855852	Q00 4DCSD
		88855853	Q00 4DDSD
		88855854	Q00 4DESD
		88855855	Q00 6DGSD
		88855856	Q00 8DHSD
		88855857	Q00 8DISD
		88855858	Q00 12DKSD
		88855859	Q00 16DNSD
		9	Tube holder
88909869	Q00 2DCSA		
88909870	Q00 4DCSA		
88909871	Q00 4DDSA		
88909872	Q00 4DESA		
88909873	Q00 6DGSA		
88909880	Q00 8DHSA		
88909882	Q00 8DISA		
88909883	Q00 12DKSA		
88909884	Q00 16DNSA		

10.2 Removing the tube

⚠ CAUTION

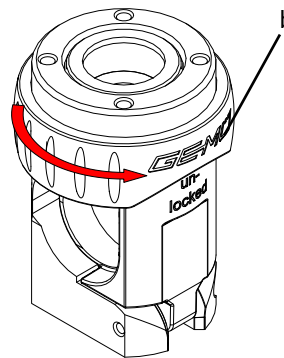


Risk of crushing!

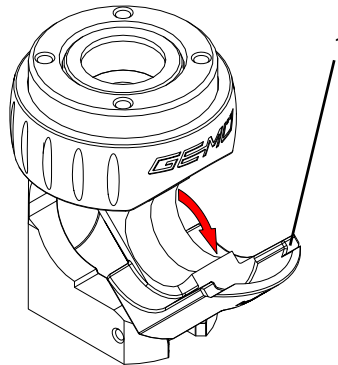
- ▶ While the tube holder is open, the actuator can move. Severe injury due to crushing or shearing of the fingers.
- Ensure that the actuator remains in the open position during tube replacement.
- Do not reach into the tube crushing area.

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

WARNING! Pneumatic actuator with control function 1:
Risk of crushing due to the compressor shutting down.
 Ensure that the actuator remains in the open position during tube replacement. Do not reach into the tube crushing area.



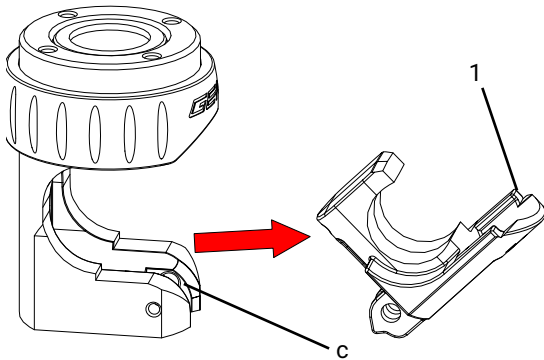
2. Turn the locking ring **b** by 90° in the direction of the arrow.
 ⇒ The word "unlocked" can be read on the tube holder.



3. Open the tube holder **1**.
4. Remove the tube.

10.3 Disassembling the tube holder

1. Remove the tube (see "Removing the tube", page 17).

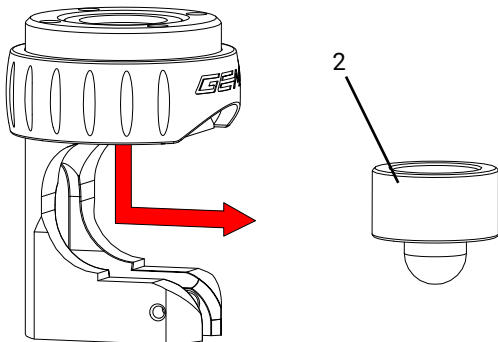


2. Loosen the fixing screw **c** using an Allen key.
3. Remove the tube holder **1**.

10.4 Disassembling the compressor

⚠ CAUTION	
	<p>Risk of crushing due to the compressor shutting down!</p> <ul style="list-style-type: none"> ▶ Severe injury due to crushing or shearing of the fingers. ● Ensure that the actuator remains in the open position while replacing the compressor. ● Do not reach into the tube crushing area.

1. Remove the tube (see "Removing the tube", page 17).
2. Disassemble the tube holder (see "Disassembling the tube holder", page 18).
3. Move the actuator **A** to the closed position.

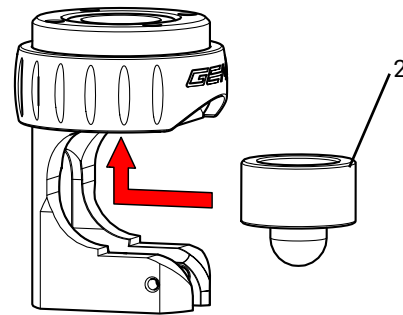


4. Pull the compressor **2** out downwards.

10.5 Installing the compressor

⚠ CAUTION	
	<p>Risk of crushing due to the compressor shutting down!</p> <ul style="list-style-type: none"> ▶ Severe injury due to crushing or shearing of the fingers. ● Ensure that the actuator remains in the open position while replacing the compressor. ● Do not reach into the tube crushing area.

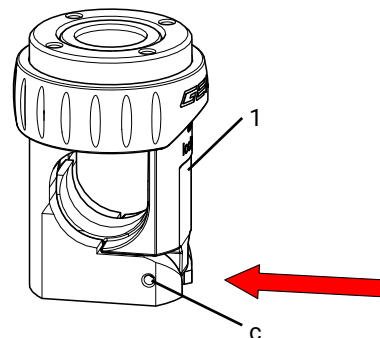
1. Remove the tube (see "Removing the tube", page 17).
2. Disassemble the tube holder (see "Disassembling the tube holder", page 18).
3. Disassemble the compressor (see "Disassembling the compressor", page 18).



4. Insert the compressor **2** and press upwards until the compressor engages.
5. Move the actuator **A** to the open position.

10.6 Assembling the tube holder

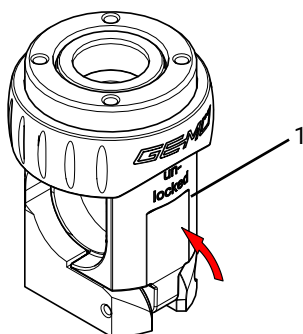
1. Disassemble the tube holder (see "Disassembling the tube holder", page 18).



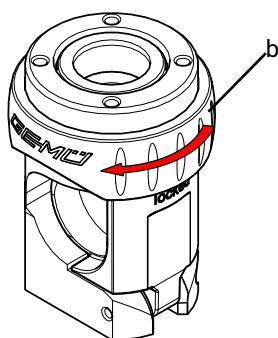
2. Insert the tube holder **1**.
3. Tighten the fixing screw **c** using an Allen key.

10.7 Inserting the tube

1. Remove the tube (see "Removing the tube", page 17).
2. Insert the tube.



3. Close the tube holder 1.



4. Turn the locking ring **b** by 90° in the direction of the arrow.
⇒ The word "locked" can be read on the tube holder.
5. With the valve fully assembled, check the function and tightness.

11 Troubleshooting

Error	Possible cause	Troubleshooting
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
	Tube leaking or damaged	Check tube for potential damage, replace tube if necessary
The product does not open or does not open fully	Actuator defective	Replace valve
	Control pressure too low (for control function NC)	Operate the product at the specified control pressure (see chapter "Technical data")
	Foreign matter in the product	Remove and clean the product
The product does not close or does not close fully	The actuator design is not suitable for the operating conditions	Use an actuator that is designed for the operating conditions
	Foreign matter in the product	Remove and clean the product
	Control pressure too low (for control function NO)	Operate the product at the specified control pressure (see chapter "Technical data")

12 Removal

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.

13 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.

14 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.

15 Declaration of Incorporation according to 2006/42/EC (Machinery Directive)

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

We, the company GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Strasse 6-8
74653 Ingelfingen-Criesbach, Germany

declare that the following product
Make: GEMÜ pinch valve
Serial number: From 1st October 2020
Project number: Q30/40
Commercial name: GEMÜ Q40

meets the following essential requirements of the Machinery Directive 2006/42/EC:

1.1.5, 1.2.1, 1.2.2, 1.2.3, 1.2.5, 1.3., 1.3.2, 1.3.4, 1.3.7, 1.3.8, 1.3.9, 1.5.3, 1.5.5, 1.5.14, 1.6.1, 1.6.3

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

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
Authorised documentation officer **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**
Fritz-Müller-Straße 6-8
74653 Ingelfingen, Germany

This does not affect the industrial 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.

2023-02-07



Joachim Brien
Head of BU Industry



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Subject to alteration

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