

# GEMÜ RSK

Plastic check valve

EN

## Operating instructions



**EAC**

further information  
webcode: GW-RSK



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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.





### 1.4 Warning notes



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


SIGNAL WORD	
Possible symbol for the specific danger	<b>Type and source of the danger</b> ▶ 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:

 <b>DANGER</b>	
	<b>Imminent danger!</b> ▶ Non-observance can cause death or severe injury.
 <b>WARNING</b>	
	<b>Potentially dangerous situation!</b> ▶ Non-observance can cause death or severe injury.

 <b>CAUTION</b>	
	<b>Potentially dangerous situation!</b> ▶ Non-observance can cause moderate to light injury.

<b>NOTICE</b>	
	<b>Potentially dangerous situation!</b> ▶ 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
	Risk of crushing!
	Corrosive chemicals!
	Hot plant components!

## 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 materials.

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:

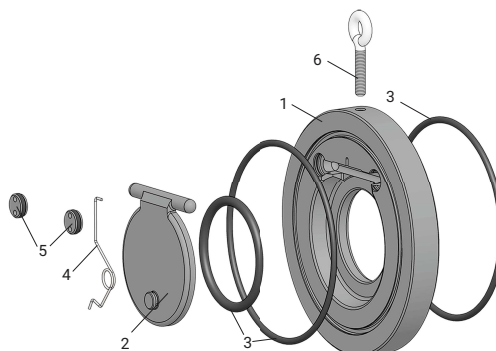
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not 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	Body	PVC-U grey, PP, PVDF
2	Disc	PVC-U grey, PP, PVDF
3	Seal (O-ring)	NBR, EPDM, FPM, PTFE (encapsulated)
4	Spring	1.4571, Hastelloy
5	Screws	PVC-U grey, PP, PVDF
6	Eye bolt	1.4571

### 3.2 Description

GEMÜ RSK is a plastic check valve with integrated flange seal. The valve body, disc and seal are available in various materials.

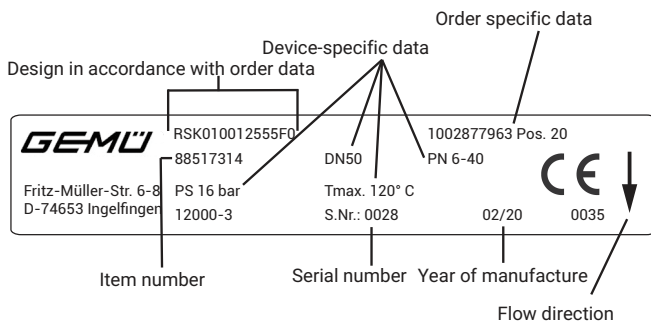
The GEMÜ RSK is clamped between two flanges during installation. The centring is based on the outside diameter of the housing

### 3.3 Function

The flow of fluid causes disc 2 in the check valve to open. Check valves therefore need a lower opening pressure. The resulting opening force moves the check valve against spring 4 and the weight force of disc 2 so that the medium is released.

To potentially achieve higher flows, special flange adaptors are provided which enable the valve to have a larger opening angle. If the outlet pressure exceeds the inlet pressure, the check valve closes and creates a seal against the medium using the O-ring. The valve is sealed off from the outside via the O-ring. It is therefore recommended that flange sleeves with smooth sealing surfaces be used.

### 3.4 Product label



### 4 Correct use

<b>⚠ DANGER</b>	
	<p><b>Danger of explosion</b></p> <ul style="list-style-type: none"> <li>▶ Risk of death or severe injury.</li> <li>● Do <b>not</b> use the product in potentially explosive zones.</li> </ul>
<b>⚠ WARNING</b>	
<p><b>Improper use of the product</b></p> <ul style="list-style-type: none"> <li>▶ Risk of severe injury or death.</li> <li>▶ Manufacturer liability and guarantee will be void.</li> <li>● Only use the product in accordance with the operating conditions specified in the contract documentation and in this document.</li> </ul>	

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.

## 5 Order data

### Order codes

1 Type	Code
Check valve	RSK

2 DN	Code
DN 32	0032
DN 40	0040
DN 50	0050
DN 65	0065
DN 80	0080
DN 100	0100
DN 125	0125
DN 150	0150
DN 200	0200
DN 250	0250
DN 300	0300
DN 350	0350
DN 400	0400
DN 450	0450
DN 500	0500
DN 600	0600

3 Operating pressure	Code
3 bar	0
6 bar	1
10 bar	2
5 bar	7
8 bar	8

4 Connection type	Code
PN 6 / flange EN 1092, face-to-face dimension FTF EN 558 series 20	1
PN 10 / flange EN 1092, face-to-face dimension FTF EN 558 series 20	2
ANSI B16.5, Class 150	D

5 Body material	Code
PVC-U	1
PP	5
PVDF	20

6 Disc material	Code
PVC	1
PP	5
PVDF	20

7 Seal material	Code
NBR	2
FPM	4
PTFE	5
EPDM	14

8 Spring return	Code
Without return spring	F0
Spring 1.4571	F1
Spring Hastelloy	F2

9 Type of design	Code
Without	
Valve free of oil and grease, media wetted area cleaned and packed in PE bag	0107

### Order example

Ordering option	Code	Description
1 Type	RSK	Check valve
2 DN	0100	DN 100
3 Operating pressure	1	6 bar
4 Connection type	2	PN 10 / flange EN 1092, face-to-face dimension FTF EN 558 series 20
5 Body material	5	PP
6 Disc material	5	PP
7 Seal material	5	PTFE
8 Spring return	F0	Without return spring
9 Type of design		Without

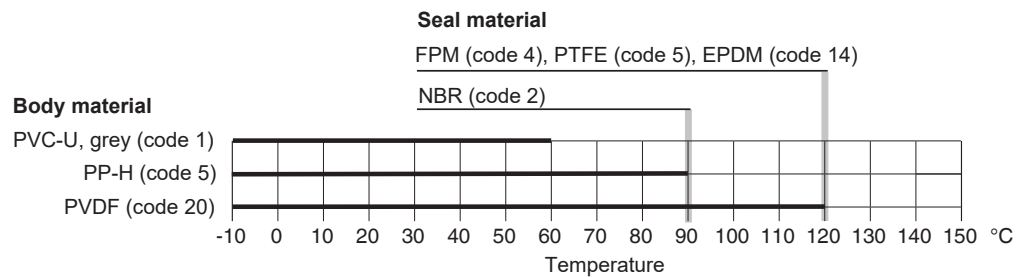
## 6 Technical data

### 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, disc and seal material.

### 6.2 Temperature

**Media temperature:**



### 6.3 Pressure

**Operating pressure:**

DN	Material code <sup>1)</sup>		
	1	5	20
32	10	8	10
40	10	8	10
50	10	8	10
65	10	8	10
80	10	6	10
100	10	6	10
125	10	6	10
150	6	6	8
200	6	6	8
250	5	5	5
300	5	5	5
350	5	5	5
400	5	5	5
450	5	5	5
500	5	5	5
600	5	5	5

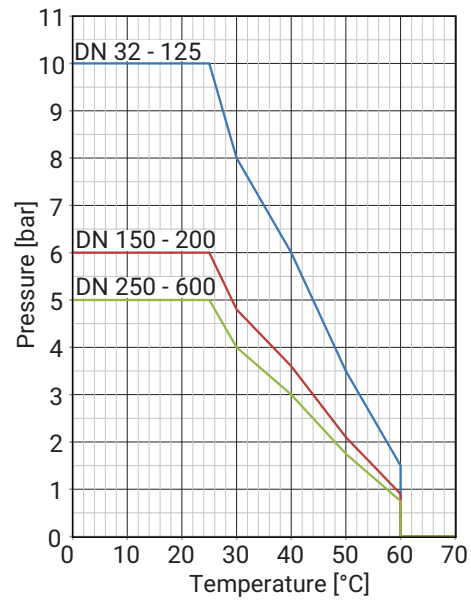
Pressures in bar

- 1) **Body material**  
 Code 1: PVC-U  
 Code 5: PP  
 Code 20: PVDF

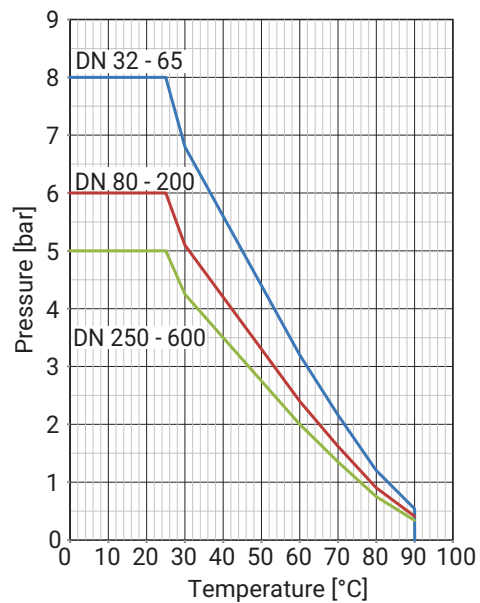


Pressure/temperature diagram:

Body material PVC-U, grey (Code 1)

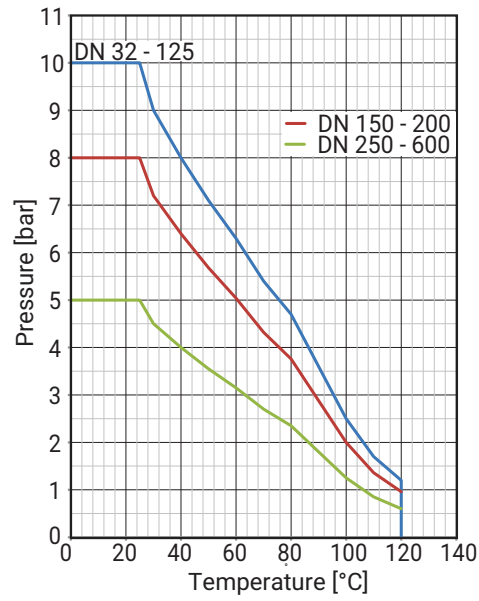


Body material PP (Code 5)

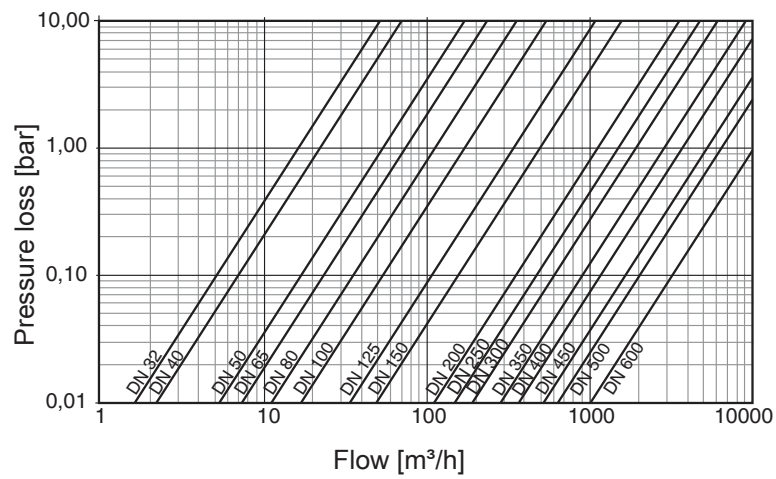


**Pressure/temperature diagram:**

Body material PVDF (Code 20)



**Pressure loss:**



The diagram values are valid for water at 20 °C.  
Please contact GEMÜ for the calculation of other fluids.

Pressure for disc opening:

DN	Piping	
	Horizontal	Vertical
32	1	2
40	1	2
50	1	3
65	1	3
80	1	3
100	1	3
125	1	3
150	1	3
200	1	4
250	1	4
300	1	4
350	2	5
400	3	7
450	3	8
500	5	8
600	10	11

Pressures in mbar

**Kv values:**

DN	Kv values
32	16.2
40	22.2
50	54
65	75
80	112
100	172
125	342
150	490
200	1128
250	1500
300	1914
350	2800
400	3700
450	4500
500	6450
600	6800

Kv values in m<sup>3</sup>/h**6.4 Mechanical data****Weight:**

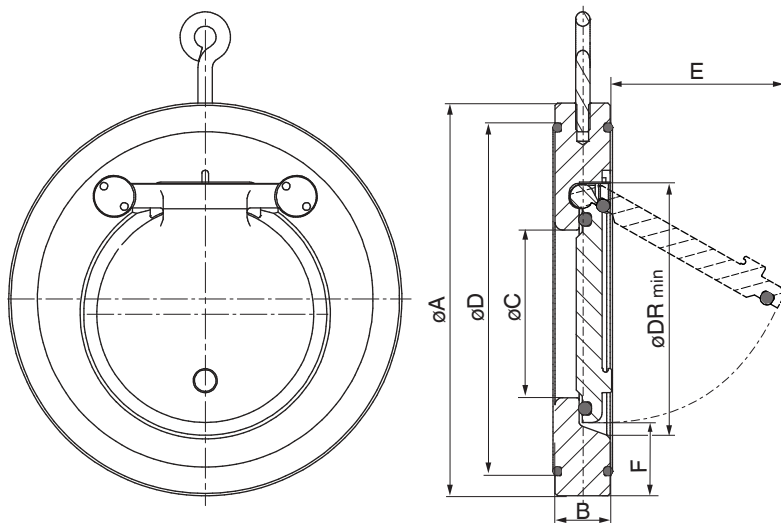
DN	Material code <sup>1)</sup>		
	1	5	20
32	0.13	0.09	0.17
40	0.16	0.1	0.21
50	0.35	0.18	0.34
65	0.35	0.23	0.43
80	0.4	0.27	0.52
100	0.56	0.38	0.72
125	0.76	0.51	0.98
150	1.12	0.76	1.44
200	2.13	1.43	2.73
250	3.54	2.44	4.56
300	5.35	3.57	6.95
350	7.56	5.16	9.76
400	11.1	7.4	14.4
450	16	12.5	21.2
500	22.85	15.2	29.6
600	39	25.5	49

Weights in kg

- 1) **Body material**  
 Code 1: PVC-U  
 Code 5: PP  
 Code 20: PVDF

## 7 Dimensions

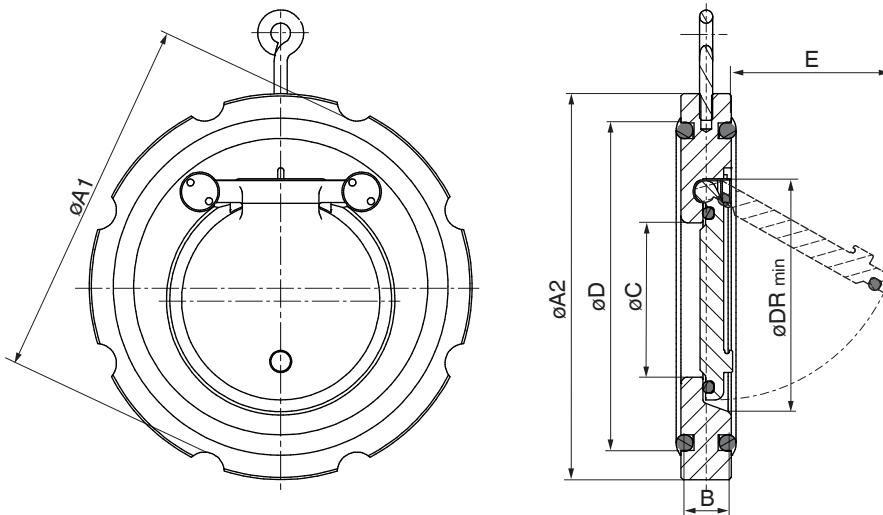
### 7.1 Design version A



DN	$\varnothing DR_{min}$	PN 6	PN 10	ANSI 150	with spring	without spring	$\varnothing C$	$\varnothing D$	E	F
		$\varnothing A$			B					
32	37	79	85	74	15	15	18	59	22	25
40	43	89	95	83	16	16	22	72	25	28
50	54	98	109	105	18	18	32	86	37	29
65	70	118	129	124	20	20	40	105	50	31
80	82	134	144	137	20	20	54	119	61	32
100	106	154	164*	175*	23	23	70	146*	77*	31
125	131	184	195	197	23	23	92	173	94*	35
150	159	209	220*	222*	26	26	105	197*	100*	40
200	207	264	275*	279*	34	34	154	255*	152*	38
250	260	319	330*	340*	40	40	192	312*	180*	41
300	309	375	380*	410*	45	45	227	363*	215*	41
350	341	425	440	451	49	49	266	416	245	54
400	392	475	491	514	65	65	310	467	285	55
450	443	530	541	549	68	78	350	520	330	61
500	493	580	596	606	78	87	400	550	385	58
600	595	681	698	718	97	97	486	659	470	60

Dimensions in mm

\* Design version B is used as standard for these connection types and nominal sizes.

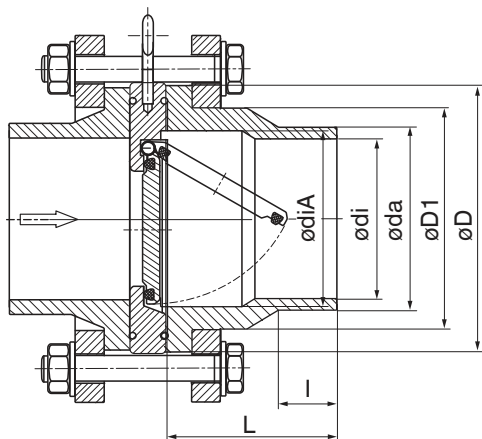
**7.2 Design version B**

DN	$\phi DR \text{ min.}$	PN 10	ANSI 150	B	$\phi C$	$\phi D$	E
		$\phi A1$	$\phi A2$				
<b>100</b>	106	164	175	23	70	153	77
<b>150</b>	159	220	222	26	105	198.5	100
<b>200</b>	207	275	279	34	154	259.5	152
<b>250</b>	260	330	340	40	192	311.0	180
<b>300</b>	309	380	410	45	227	247.0	215

Dimensions in mm

### 7.3 Special flange adaptor

The special flange adaptor must be ordered separately.



	ØD	L	Øda	Ødi		ØdiA	I	ØD1	Item no.	
				PN 6	PN 10				PP	PE
<b>32</b>	80	65	40	35	32	37	30	50	88413915	-
<b>40</b>	90	68	50	43	41	43	30	61	88322123	88321090
<b>50</b>	105	74	63	54	51	54	30	77	88299955	88320179
<b>65</b>	125	78	75	66	61	70	30	91	88242365	88207359
<b>80</b>	140	87	90	79	73	82	35	109	88264813	88241582
<b>100</b>	160	102	110	97	90	106	35	132	88312179	88207361
<b>125</b>	190	125	140	124	114	130	47	166	88263989	88390510
<b>150</b>	215	150	160	141	130	158	52	189	88276859	88413927
<b>200</b>	270	200	200	177	163	206	55	249	88249170	88413934
<b>250</b>	325	225	250	221	204	259	63	293	88265064	88413928
<b>300</b>	375	255	315	280	257	308	66	337	88413916	88413929

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.

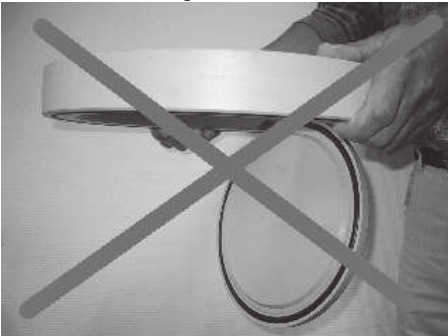
### 8.3 Transport

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.
3. Hold products > DN 100 horizontally so that the product can only open upwards.

Correct handling:



Incorrect handling:




### 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

<b>⚠ DANGER</b>	
	<p><b>Risk of crushing!</b></p> <ul style="list-style-type: none"> <li>▶ Risk of severe injury.</li> <li>● Depressurize the plant before performing any work on the product.</li> <li>● Observe correct handling procedures.</li> </ul>

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

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

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

<b>⚠ CAUTION</b>	
<b>Exceeding the maximum permissible pressure.</b>	
<ul style="list-style-type: none"> <li>▶ Damage to the product.</li> <li>● Provide precautionary measures against exceeding the maximum permitted pressures caused by pressure surges (water hammer).</li> </ul>	

<b>⚠ CAUTION</b>	
<b>Use as step.</b>	
<ul style="list-style-type: none"> <li>▶ Damage to the product.</li> <li>▶ Risk of slipping-off.</li> <li>● Choose the installation location so that the product cannot be used as a foothold.</li> <li>● Do not use the product as a step or a foothold.</li> </ul>	



**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.

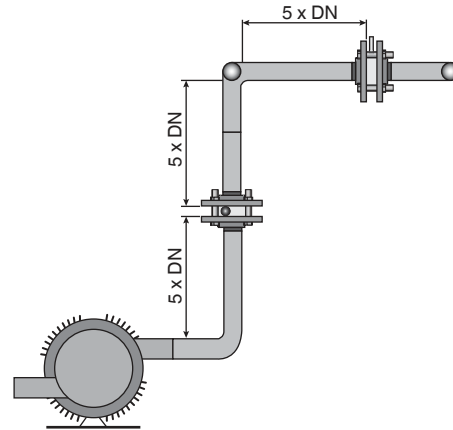
**NOTICE****Tools**

- ▶ The tools required for installation and assembly are not included in the scope of delivery.
- Use appropriate, functional and safe tools.

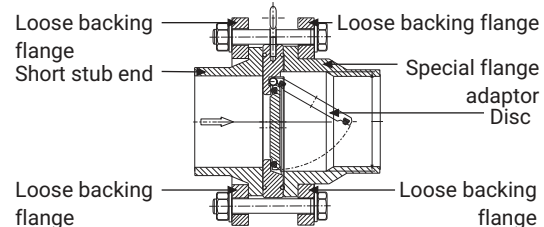
1. Ensure the product is suitable for the relevant application.
2. Check the technical data of the product and the materials.
3. Keep appropriate tools ready.
4. Wear appropriate protective gear, as specified in the plant operator's guidelines.
5. Observe appropriate regulations for connections.
6. Have 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. Pay attention to the installation position: horizontal or vertical.
15. Pay attention to the direction of the working medium: positioned in-line with flow direction

**9.2 Installation**

1. Carry out preparations for installation (see chapter "Preparing for installation").
2. Inspect check valve and O-rings for possible damage before installation. Check the freedom of movement of the check valve. Damaged parts must not be installed.
3. Make sure that you only install check valves whose pressure class, chemical resistance, connection and dimensions are appropriate for the conditions of use.
4. Provide a straight pipe section of at least 5 times the nominal diameter upstream and downstream of the check valve.



5. Use flanges to EN1092-1 or EN1092-2 for metal piping.
6. Do not mount directly on a pump flange.
7. Avoid pulsating flow conditions and water hammer.
8. Use special flange adaptors for plastic piping.



- ⇒ Higher flow rates.
  - ⇒ Larger and optimal disc opening angle.
9. Installation with vertical flow is only permissible if the check valve can open upwards.
  10. If the medium flows horizontally through the check valve, the eye bolt must point upwards.
  11. Guide the check valve between the flanges with the eye bolt. Centring is performed with the outside diameter of the body against the inside of the flange bolts.
  12. Tighten flange bolts to the appropriate torque in a diagonal pattern.

Flange bolt torques	
Thread	Torque [Nm]
M10	30
M12	50
M16	130

Flange bolt torques	
Thread	Torque [Nm]
M 20	250
M24	420
M27	600
M30	850
M33	1100
M36	1500

### 10 Manual override

A manual override is available for nominal sizes DN 50–300. The manual override is actuated by an Allen key. The Allen key is not included in the scope of delivery.

- Insert the Allen key in the manual override and turn by the required angle (max. 90°).



### 11 Commissioning

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

⚠ CAUTION	
<p><b>Leakage</b></p> <ul style="list-style-type: none"> <li>▶ Emission of dangerous materials.</li> <li>● Provide precautionary measures against exceeding the maximum permitted pressures caused by pressure surges (water hammer).</li> </ul>	

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.

## 12 Troubleshooting

Error	Possible cause	Troubleshooting
The product doesn't open or doesn't open fully	Foreign matter in the product	Remove and clean the product
	Faulty product	Replace product
The product doesn't close or doesn't close fully	O-ring of disc faulty	Replace O-ring of disc
Joint between check valve and piping is leaking	Incorrect installation	Check installation of check valve in piping
	O-ring of body faulty	Replace O-ring of body
	Screws not tightened	Tighten screws
Check valve leaks	Check valve faulty	Check the check valve for potential damage and replace if necessary
	O-ring of disc faulty	Replace O-ring of disc

### 13 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.

#### ⚠ CAUTION

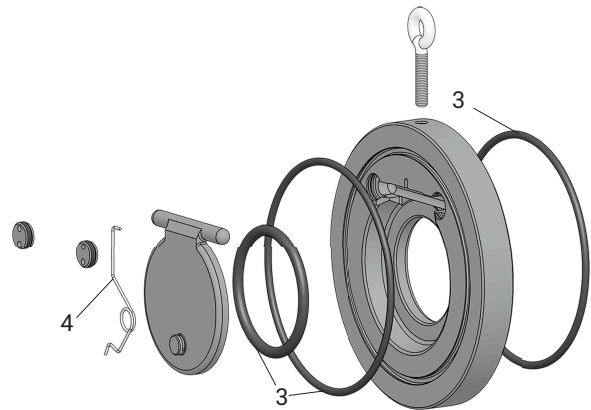
- Servicing and maintenance work must only be performed by trained personnel.
- GEMÜ shall assume no liability whatsoever for damage caused by improper handling or third-party actions.
- In case of doubt, contact GEMÜ prior to commissioning.

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.

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 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.

### 13.1 Spare parts



Item	Name	Order description
3	O-rings	SP*ZR*
4	Spring	

- Replace O-rings **3** and spring **4** (see "Removal from piping", page 20).

### 14 Removal from piping

#### NOTICE

- ▶ If defective, the entire check valve must be replaced.

1. Observe the safety information (see "Safety information", page 5).
2. Undo the flange screws.
3. Pull out the check valve using the eye bolt 6 (see "Construction", page 5).
4. Unhook the spring (option) **4** and unscrew the two screws **5**.
5. Remove the disc **2**.
6. Replace the O-rings **3**.
7. Insert the disc **2**.
8. Hook in new spring (option) **4**.
9. Insert the check valve using the eye bolt **6**.
10. Tighten the flange screws.

## **15 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.

## **16 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.

**17 Declaration of conformity according to 2014/68/EU (Pressure Equipment Directive)**

# EU Declaration of Conformity

## *in accordance with 2014/68/EU (Pressure Equipment Directive)*

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

declare that the product listed below complies with the safety requirements of the Pressure Equipment Directive 2014/68/EU.

**Description of the pressure equipment:** GEMÜ RSK  
**Notified body:** TÜV Rheinland Industrie Service GmbH  
**Number:** 0035  
**Certificate no.:** 01 202 926/Q-02 0036  
**Conformity assessment procedure:** Module H1  
**Technical standards used (in parts):** DVS 2205, ISO 9393-2, EN 12266

**Note for products with a nominal size  $\leq$  DN 25:**

The products are developed and produced according to GEMÜ process instructions and quality standards which comply with the requirements of ISO 9001 and ISO 14001.

According to Article 4, Paragraph 3 of the Pressure Equipment Directive 2014/68/EU these products must not be identified by a CE-label.

2021-08-05



Joachim Brien  
Head of Technical Department



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Subject to alteration

08.2021 | 88675926

