

GEMÜ 312, 314

Pneumatically operated multi-port globe valve



Assembly instructions

Replacing the wearing parts









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Contents

1	General information			
	1.1	Information	4	
	1.2	Symbols used	4	
	1.3	Definition of terms	4	
	1.4	Warning notes	4	
2	Safet	y information	5	
3	Const	truction	5	
	3.1	GEMÜ 312 construction	5	
	3.2	GEMÜ 314 construction	6	
4	Prepa	aring for installation	6	
5	5 Installing/removing the gland packing			
	5.1	Gland packing construction	7	
	5.2	Removing the actuator	8	
		5.2.1 Removing the GEMÜ 312 actuator	8	
		5.2.2 Removing the GEMÜ 314 actuator	8	
	5.3	Removing the gland packing	8	
	5.4	Installing new gland packing	9	
	5.5	Mounting the actuator	10	
6		lling/removing the seat seal	10	
	6.1	Seat seal construction	10	
	6.2	Removing the actuator	11	
		6.2.1 Removing the GEMÜ 312 actuator	11	
		6.2.2 Removing the GEMÜ 314 actuator	11	
	6.3	Removing the seat seal	12	
	6.4	Installing a new seat seal	12	
	6.5	Mounting the actuator	12	
7		ing parts kits	13	
	7.1	GEMÜ 312 wearing parts kits	13	
		7.1.1 SKV wearing parts kit	13	
		7.1.2 SKS wearing parts kit	13	
	7.0	7.1.3 SAF wearing parts kit	13	
	7.2	GEMÜ 314 wearing parts kits	13	
		7.2.1 SKV wearing parts kit	13	
		7.2.2 SKS wearing parts kit	13	
_	ъ.	· · = · · · · · · · · · · · · · · · · ·	13	
8	•	sal	14	
9	Retur	ns	14	

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:

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:



MARNING



Potentially dangerous situation!

 Non-observance can cause death or severe injury.

A 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
	The equipment is subject to pressure!
	The actuator cover is under spring pressure!

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 basic safety information that must be observed. 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, compliance with which the operator is responsible for (including compliance by any additional installation personnel).

This documentation is a supplement to the associated installation, operating and maintenance instructions, and contains additional information and safety information for the installation of the product.

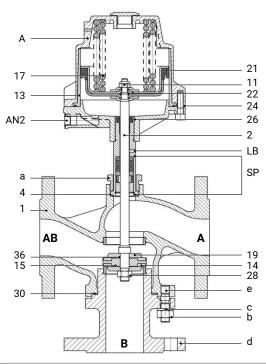
See the associated installation, operating and maintenance instructions for the product description and the description of the most important components and displays.

Before installation:

 Read the complete installation, operating and maintenance instructions for the GEMÜ 312/314 before you work with the product.

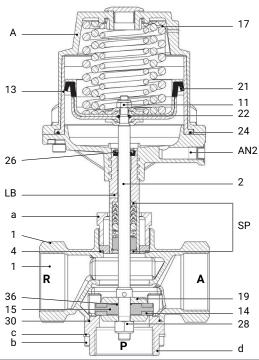
3 Construction

3.1 GEMÜ 312 construction



Item	Name
1	Valve body
2	Spindle
4	Gasket
11	Hexagon nut
13	Piston sleeve
14	Seat seal
15	Valve plug
17	Compression spring(s)
19	Retaining washer
21	Lip ring
22	O-ring
24	O-ring
26	Lip ring
28	Hexagon nut
30	Gasket
36	O-ring
Α	Actuator
а	Union nut
b	Hexagon nut
С	Washer
d	Seat flange
е	Stud bolt
AN2	Connector 2
LB	Leak detection hole
SP	Gland packing

3.2 GEMÜ 314 construction



Item	Name
1	Valve body
2	Spindle
4	Gasket
11	Hexagon nut
13	Piston sleeve
14	Seat seal
15	Valve plug
17	Compression spring(s)
19	Retaining washer
21	Lip ring
22	O-ring
24	O-ring
26	Lip ring
28	Hexagon nut
30	O-ring
36	O-ring
Α	Actuator
а	Union nut
b	Cylindrical screw
С	Washer
d	Seat flange
AN2	Connector 2
LB	Leak detection hole
SP	Gland packing

4 Preparing for installation

A WARNING



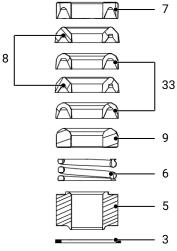
The equipment is subject to pressure!

- ▶ Risk of severe injury or death
- Depressurize the plant or plant component.
- Completely drain the plant or plant component.
- 1. Ensure that the product is suitable for the respective application.
- 2. Check the technical data of the product and the materials.
- 3. Keep appropriate tools ready.
- 4. Wear appropriate protective gear in accordance with the plant operator's guidelines.
- 5. Observe appropriate regulations for connections.
- 6. Installation work must only be performed by trained personnel.
- 7. Shut off plant or plant component.
- Secure 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. If necessary, correctly decontaminate, rinse and ventilate the plant or plant component.

5 Installing/removing the gland packing

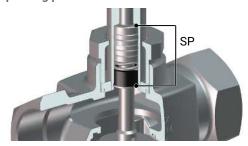
See also the Construction (see Chapter 3, page 5) chapter or, in the installation, operating and maintenance instructions for the GEMÜ 312/314, the "Installing the valve" chapter and the "Sectional drawings" chapter.

5.1 Gland packing construction



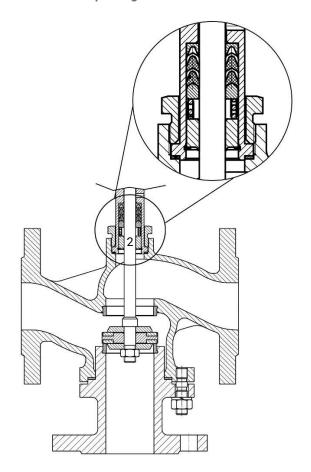
Item	Name
3	Circlip B
5	Guide bush
6	Compression spring
7	Support ring
8	Chevron packing
9	Pressure ring
33	Chevron packing

Gland packing position

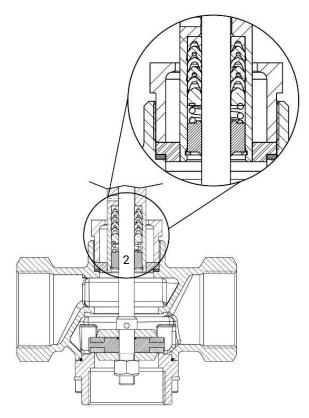


Item	Name
SP	Gland packing

GEMÜ 312: Gland packing when installed



GEMÜ 314: Gland packing when installed



5.2 Removing the actuator

NOTICE

► 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).

NOTICE

Gasket!

Replace the gasket 4 and gasket/O-ring 30 each time the actuator is disassembled/assembled.

5.2.1 Removing the GEMÜ 312 actuator

- 1. Move actuator **A** to the open position.
 - ⇒ Connection AB-B open.
- 2. Undo and remove screws e, hexagon nuts b and washers c on seat flange d.
- 3. Pull seat flange d downwards.
- 4. Remove gasket 30.
- 5. Move actuator **A** to the closed position.
 - ⇒ Connection AB-A open.
- 6. Undo and remove hexagon nut 28 on valve plug 15 with retaining washer 19.
- 7. Move actuator **A** to the open position.
 - ⇒ Connection AB-A open.
 - ⇒ Valve plug 15 becomes loose.
- 8. Move actuator A to the closed position.
 - ⇒ Connection AB-A open.
- 9. Remove all of the loosened parts.
- 10. Undo union nut a.
- 11. Remove actuator **A** from valve body **1**.
- 12. Remove gasket 4.

5.2.2 Removing the GEMÜ 314 actuator

- 1. Move actuator **A** to the open position.
 - ⇒ Connection A-P open.
- 2. Undo and remove cylindrical screws ${\bf b}$ and washers ${\bf c}$ on seat flange d.
- 3. Pull seat flange d downwards.
- 4. Remove O-ring 30.
- 5. Move actuator A to the closed position.
 - ⇒ Connection A-R open.
- 6. Undo and remove hexagon nut 28 on valve plug 15 with retaining washer 19.
- 7. Move actuator **A** to the open position.
 - ⇒ Connection A-P open.
 - ⇒ Valve plug 15 becomes loose.
- 8. Move actuator **A** to the closed position.
 - ⇒ Connection A-R open.
- 9. Remove all of the loosened parts.
- 10. Undo union nut a.
- 11. Remove actuator A from valve body 1.
- 12. Remove gasket 4.

5.3 Removing the gland packing

⚠ WARNING

The actuator cover is under spring pressure!

- Risk of severe injury or death!
- Only open the actuator under a press.
- 1. Remove actuator A (Removing the actuator (see Chapter 5.2, page 8)).
- 2. Clamp actuator A in a press.

A CAUTION

Actuator cover will break if pressure is too high!

- Only use minimum required pressure.
- 3. Undo and remove connecting bolts between cover and base of actuator **A**.
- 4. Slowly release the press.
 Release and open actuator **A**.
- Remove compression springs 17 and O-ring 24 from piston sleeve 13.
- 6. Pull piston sleeve **13** from cover of actuator **A** and lubricate with Dowcorning 111 Molycote.
- 7. Undo hexagon nut **11** of piston-spindle joint in base of actuator **A**.
- 8. Remove lip ring 21 from piston cover.
- 9. Remove O-ring 22 between piston and piston cover.
- 10. Pull out spindle 2 downwards from base of actuator A.
- 11. Remove lip ring 26 from base of actuator A.
- 12. Use an appropriate tool to remove circlip **3** from base of actuator **A**.
- 13. Pull out the components from the pipe in the base of actuator A in the following order: Guide bush 5, compression spring 6, pressure ring 9, chevron packings 8 and 33 and support ring 7.

5.4 Installing new gland packing

- 1. Insert the new gland packing into the pipe in the base of actuator **A** in the following order:
 - 1. Support ring **7**.
 - Chevron packings 8 and 33 (before this, lubricate using Dowcorning 111 Molycote).

NOTICE

Loss of sealing tightness in the event of incorrect layout!

- Arrange the sharp-edged sides of chevron packings 8 and 33 in the direction of the valve body, otherwise no sealing tightness will be achieved (see Gland packing construction (see Chapter 5.1, page 7)).
- Pressure ring 9.
- 4. Compression spring 6.
- Guide bush 5.
- 2. Lock gland packing in place using circlip 3.
- 3. Insert new lip ring 26 in base of actuator A.
- 4. Check spindle **2** for potential damage and, if necessary, replace it.
- 5. Push spindle 2 through base of actuator A.
- 6. Insert O-ring 22 between piston and piston cover.
- 7. Insert new lip ring 21 in piston cover.
- 8. Fix piston-spindle joint in base of actuator **A** with hexagon nut **11**.
- 9. Press piston sleeve 13 into cover of actuator A.
- 10. Insert O-ring **24** and compression springs **17** into piston sleeve **13**.
- 11. Put cover and base of actuator **A** together and insert connecting bolts.
- 12. Clamp actuator **A** in a press, and press cover and base of actuator **A** flush together.

A CAUTION

Actuator cover will break if pressure is too high!

- ▶ Only use minimum required pressure.
- 13. Tighten connecting bolts between cover and base of actuator **A** diagonally.
- 14. Slowly release the press.
- 15. Mount actuator **A** (Mounting the actuator (see Chapter 5.5, page 10)).

5.5 Mounting the actuator

NOTICE

Gasket!

- Replace the gasket 4 and gasket/0-ring 30 each time the actuator is disassembled/assembled.
- 1. Move actuator **A** to the open position.
 - ⇒ **GEMÜ 312:** Connection AB-B open.
 - ⇒ **GEMÜ 314:** Connection A-P open.
- 2. Insert new gasket 4 in valve body 1.
- 3. Place actuator **A** on valve body **1** approx. 90° anticlockwise to the end position of the control medium connectors and screw it on hand-tight using union nut **a**.
 - ⇒ The actuator can be rotated through 360°.
 - The position of the control medium connectors is optional.
- 4. Tighten union nut **a** with an open-end wrench (for torques, see table). This causes the actuator to turn approx. 90° clockwise until it reaches the desired position.

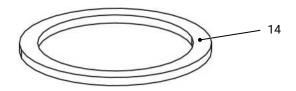
Nominal size	Torques [Nm]
DN 15	100
DN 20	100
DN 25	100
DN 32	100
DN 40	100
DN 50	100
DN 65	120
DN 80	120
DN 100	120

- 5. Move actuator A to the closed position.
 - ⇒ **GEMÜ 312:** Connection AB-A open.
 - ⇒ **GEMÜ 314:** Connection A-R open.
- 6. Insert seat seal 14 into valve plug 15.
- 7. Insert retaining washer **19** and use hexagon nut **28** to fix it in place.
- 8. Move actuator **A** to the open position.
 - ⇒ **GEMÜ 312:** Connection AB-B open.
 - ⇒ **GEMÜ 314:** Connection A-P open.
- 9. Insert gasket/O-ring 30 into seat flange d.
- Connect valve body 1 and the seat flange using screws, washers and nuts.
- 11. With the valve fully assembled, check that it is working correctly and that it is leak-tight.

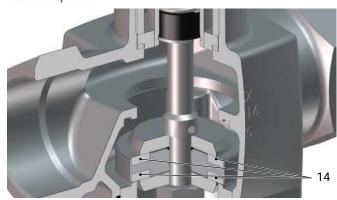
6 Installing/removing the seat seal

See also the Construction (see Chapter 3, page 5) chapter or, in the installation, operating and maintenance instructions for the GEMÜ 312/314, the "Installing the valve" chapter and the "Sectional drawings" chapter.

6.1 Seat seal construction

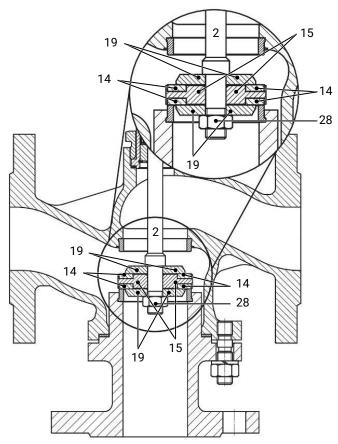


Seat seal position

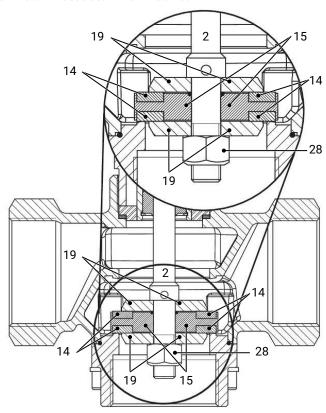


Item	Name
14	Seat seal

GEMÜ 312: Seat seal when installed



GEMÜ 314: Seat seal when installed



6.2 Removing the actuator

NOTICE

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).

NOTICE

Gasket!

 Replace the gasket 4 and gasket/0-ring 30 each time the actuator is disassembled/assembled.

6.2.1 Removing the GEMÜ 312 actuator

- 1. Move actuator **A** to the open position.
 - ⇒ Connection AB-B open.
- 2. Undo and remove screws **e**, hexagon nuts **b** and washers **c** on seat flange **d**.
- 3. Pull seat flange d downwards.
- 4. Remove gasket 30.
- 5. Move actuator A to the closed position.
 - ⇒ Connection AB-A open.
- 6. Undo and remove hexagon nut **28** on valve plug **15** with retaining washer **19**.
- 7. Move actuator **A** to the open position.
 - ⇒ Connection AB-A open.
 - ⇒ Valve plug 15 becomes loose.
- 8. Move actuator A to the closed position.
 - ⇒ Connection AB-A open.
- 9. Remove all of the loosened parts.
- 10. Undo union nut a.
- 11. Remove actuator A from valve body 1.
- 12. Remove gasket 4.
- 13. Disconnect the control medium supply/remove the control medium hoses.

6.2.2 Removing the GEMÜ 314 actuator

- 1. Move actuator **A** to the open position.
 - ⇒ Connection A-P open.
- 2. Undo and remove cylindrical screws **b** and washers **c** on seat flange **d**.
- 3. Pull seat flange d downwards.
- 4. Remove O-ring 30.
- 5. Move actuator A to the closed position.
 - ⇒ Connection A-R open.
- 6. Undo and remove hexagon nut **28** on valve plug **15** with retaining washer **19**.
- 7. Move actuator **A** to the open position.
 - ⇒ Connection A-P open.
 - ⇒ Valve plug 15 becomes loose.
- 8. Move actuator A to the closed position.
 - ⇒ Connection A-R open.
- 9. Remove all of the loosened parts.
- 10. Undo union nut a.
- 11. Remove actuator A from valve body 1.
- 12. Remove gasket 4.
- Disconnect the control medium supply/remove the control medium hoses.

6.3 Removing the seat seal

- 1. Remove actuator **A** (Removing the actuator (see Chapter 6.2, page 11)).
- 2. Undo retaining washer **19** on spindle **2** (hold spindle **2** in place using an appropriate tool that will not damage the spindle surface).
- 3. Remove seat seal 14.
- 4. Clean all parts; do not scratch or damage the parts during cleaning.

6.4 Installing a new seat seal

NOTICE

Steel seat seal!

- ► The steel seat seal may only be replaced by GEMÜ.
- Send the complete valve to GEMÜ together with a completed return delivery note.
- Insert new seat seals 14 into valve plug 15 from above and below.
- 2. Apply appropriate thread locking compound to the thread of valve plug **15**.
- 3. Push upper retaining washer 19 over spindle 2.
- 4. Place O-ring 36 on valve plug 15.
- 5. Push valve plug **15** with inserted seat seals **14** over spindle **2**.
- Push lower retaining washer 19 over spindle 2 and upwards as far as valve plug 15, and bolt it with hexagon nut 28.
- 7. Mount actuator **A** (Mounting the actuator (see Chapter 6.5, page 12)).

6.5 Mounting the actuator

NOTICE

Gasket!

- Replace the gasket 4 and gasket/O-ring 30 each time the actuator is disassembled/assembled.
- 1. Move actuator **A** to the open position.
 - ⇒ **GEMÜ 312:** Connection AB-B open.
 - ⇒ **GEMÜ 314:** Connection A-P open.
- 2. Insert new gasket 4 in valve body 1.
- 3. Place actuator **A** on valve body **1** approx. 90° anticlockwise to the end position of the control medium connectors and screw it on hand-tight using union nut **a**.
 - ⇒ The actuator can be rotated through 360°.
 - The position of the control medium connectors is optional.
- 4. Tighten union nut a with an open-end wrench (for torques, see table). This causes the actuator to turn approx. 90° clockwise until it reaches the desired position.

Nominal size	Torques [Nm]
DN 15	100
DN 20	100

Nominal size	Torques [Nm]
DN 25	100
DN 32	100
DN 40	100
DN 50	100
DN 65	120
DN 80	120
DN 100	120

- 5. Move actuator A to the closed position.
 - ⇒ **GEMÜ 312:** Connection AB-A open.
 - ⇒ **GEMÜ 314:** Connection A-R open.
- 6. Insert gasket/O-ring 30 into seat flange d.
- Connect valve body 1 and the seat flange using screws, washers and nuts.
- 8. With the valve fully assembled, check that it is working correctly and that it is leak-tight.

7 Wearing parts kits

7.1 GEMÜ 312 wearing parts kits

7.1.1 SKV wearing parts kit

Actuator Actuator 11 Hexagon nut 13 Piston sleeve 21 Lip ring (external seal) 22 O-ring 24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring 33 Chevron packing		31	
11 Hexagon nut 13 Piston sleeve 21 Lip ring (external seal) 22 O-ring 24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	Item	Name	Order designation
13 Piston sleeve 21 Lip ring (external seal) 22 O-ring 24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	Actuator		312SKV
21 Lip ring (external seal) 22 O-ring 24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	11	Hexagon nut	
22 O-ring 24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	13	Piston sleeve	
24 O-ring 26 Lip ring (internal seal) Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	21	Lip ring (external seal)	
Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	22	O-ring	
Valve 4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	24	O-ring	
4 Gasket 14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	26	Lip ring (internal seal)	
14 Seat seal 28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring		Valve	
28 Hexagon nut 30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	4	Gasket	
30 Gasket 36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	14	Seat seal	
36 O-ring Gland packing 3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	28	Hexagon nut	
Gland packing Circlip B Guide bush Compression spring Support ring Chevron packing Pressure ring	30	Gasket	
3 Circlip B 5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	36	O-ring	
5 Guide bush 6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring		Gland packing	
6 Compression spring 7 Support ring 8 Chevron packing 9 Pressure ring	3	Circlip B	
7 Support ring 8 Chevron packing 9 Pressure ring	5	Guide bush	
8 Chevron packing 9 Pressure ring	6	Compression spring	
9 Pressure ring	7	Support ring	
	8	Chevron packing	
33 Chevron packing	9	Pressure ring	
	33	Chevron packing	

7.1.2 SKS wearing parts kit

71112 Ofto Houring parto litt			
Item	Name	Order designation	
Spindle		312SKS	
2	Spindle		
11	Hexagon nut		
14	Seat seal		
15	Valve plug		
19	Retaining washer		
28	Hexagon nut		
36	O-ring		
	SKV		
-	SKV wearing parts kit		

7.1.3 SAF wearing parts kit

Item	Name	Order designation	
17	Compression spring*	312SAF	
* The number of compression springs with control function 1			
is dependent on the actuator version			

7.2 GEMÜ 314 wearing parts kits

7.2.1 SKV wearing parts kit

Item	Name	Order designation
Actuator		314SKV
11	Hexagon nut	
13	Piston sleeve	
21	Lip ring (external seal)	
22	O-ring	
44	O-ring (only with control function 3)	
26	Lip ring (internal seal)	
	Valve	
4	Gasket	
14	Seat seal	
28	Hexagon nut	
30	O-ring	
36	O-ring	
Gland packing		
3	Circlip B	
5	Guide bush	
6	Compression spring	
7	Support ring	
8	Chevron packing	
9	Pressure ring	
33	Chevron packing	

7.2.2 SKS wearing parts kit

Item	Name	Order designation
Spindle		314SKS
2	Spindle	
14	Seat seal	
15	Valve plug	
19	Retaining washer	
28	Hexagon nut	
36	O-ring	
SKV		
	SKV wearing parts kit	

7.2.3 SAF wearing parts kit

Item	Name	Order designation		
17	Compression spring*	314SAF		
* The number of compression springs with control function 1 is dependent on the actuator version.				

8 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.

9 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 $\mathsf{GEM}\ddot{\mathsf{U}}.$





