GEMÜ C67 CleanStar

Manually operated diaphragm valve

EN

Assembly instructions

Diaphragm replacement

further information
webcode: GW-C67

1 Information

NOTICE

- Only use the assembly instructions in conjunction with the operating instructions.

2 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
	Corrosive chemicals
	Hot plant components!

3 Diaphragm replacement – manual valve

⚠ 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 suitable protective gear.
● Completely drain the plant.

⚠ CAUTION

Hot plant components!

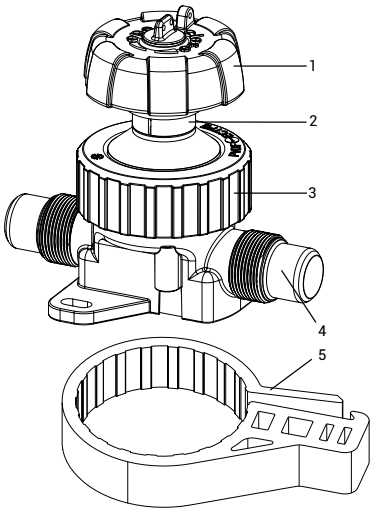
► Risk of burns!
● Only work on plant that has cooled down.

3.1 Removing the diaphragm

⚠ CAUTION

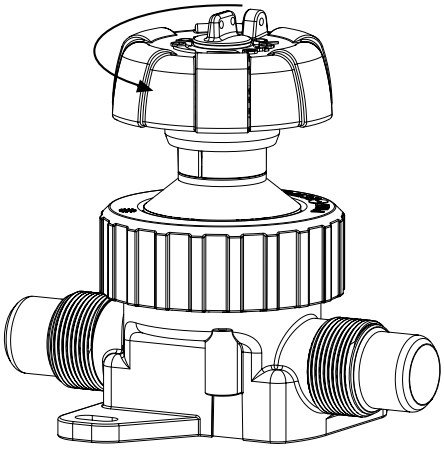
● Check the fixing of the valve when installing it on a device or distribution installation.

1



1 = Handwheel
2 = Indicator ring
3 = Central nut
4 = Pipe connections
5 = Service tool

2

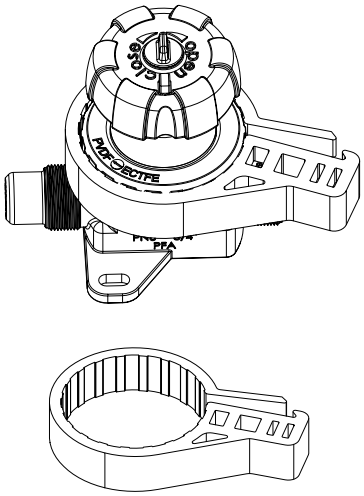


- Open the valve fully by turning the hand-wheel anticlockwise.

NOTICE

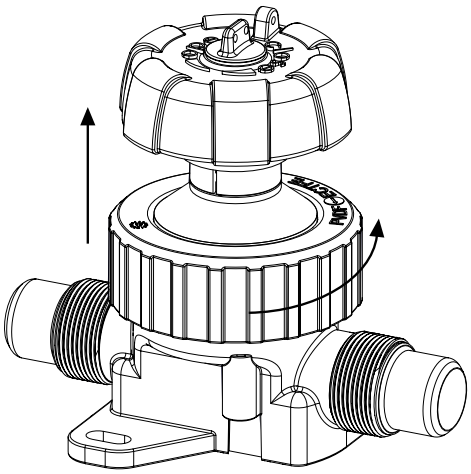
- ▶ The valve is open when the entire position indicator (red ring) can be seen.
- ▶ The valve is closed when some of the position indicator can be seen (2–3 mm; dependent on the integrated travel stop).

3



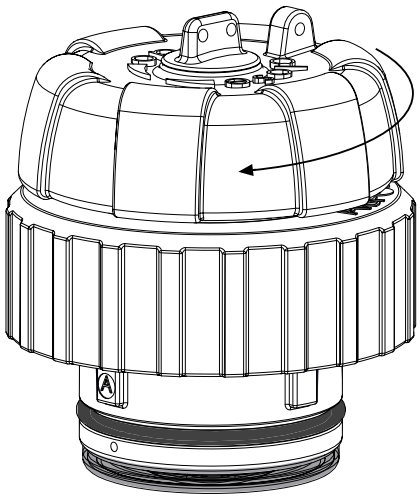
1. Place the service tool against the central nut.
   The service tool's locking device must be pointing anticlockwise in order to loosen the central nut.
2. Undo the central nut by turning it anti-clockwise.
   You can use a torque wrench to do this.

4



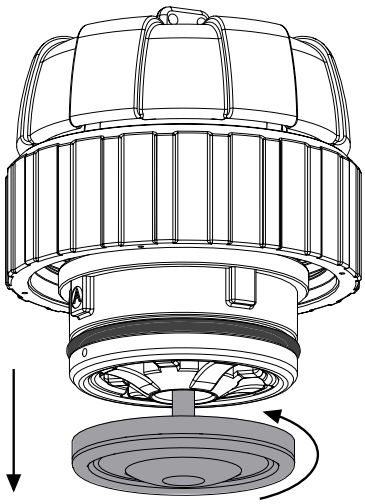
- Carefully undo the central nut by hand and remove the operator from the valve body.

5



- Move the operator to the closed position by turning the handwheel clockwise.

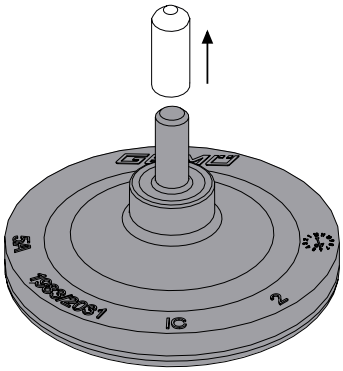
6

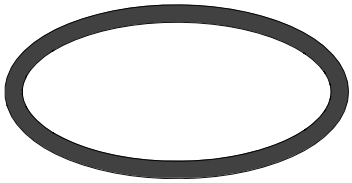


- Unscrew the diaphragm from the operator by turning it anticlockwise.

3.2 Mounting the diaphragm

1



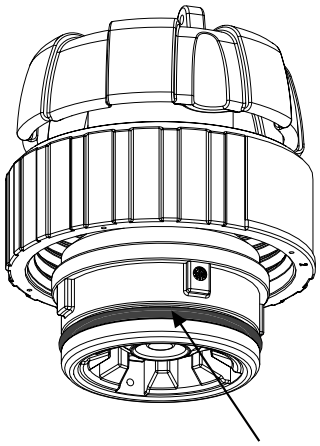


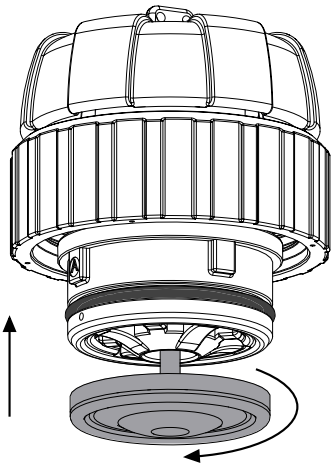
NOTICE

► Install a new diaphragm whenever the central nut is loosened.
Observe the information on the packaging (risk of contamination).

1. Replace the enclosed O-ring if damaged (e.g. mechanical or chemical stress, brittleness).
2. Remove the protection cap from the diaphragm pin.
3. Take care not to scratch the diaphragm face when doing so.

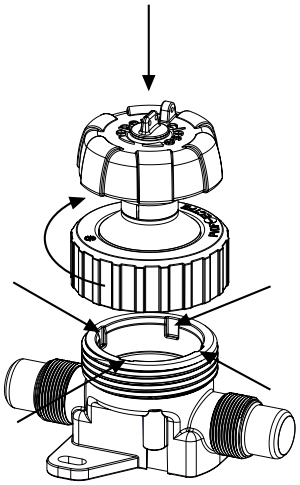
2

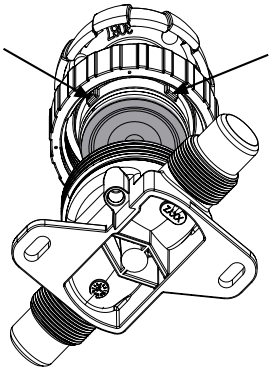




1. Replace the O-ring using an appropriate tool.
2. Screw in the new diaphragm by turning it clockwise, tightening until hand-tight.
3. Move the operator to the open position by turning the handwheel anticlockwise.

3





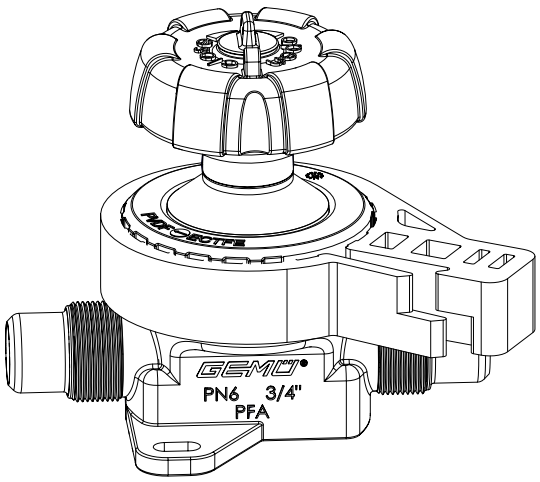
1. Press the operator onto the valve body.

NOTICE

► Pay attention to the position of the fixing grooves in the body and the fixing lugs on the operator. These must fit together exactly.

2. Position the central nut by hand and tighten it clockwise until hand-tight.

4



1. Place the service tool against the central nut.
   The service tool's locking device must be pointing clockwise in order to tighten the central nut.
2. Carefully tighten the central nut by turning it clockwise with a torque wrench (see torque table).

Operator size	1	2	3
Torque (Nm)	10–12	14–16	25–30

3. Check the central nut after a week has passed and retighten it if necessary to avoid leakage.

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Subject to alteration

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