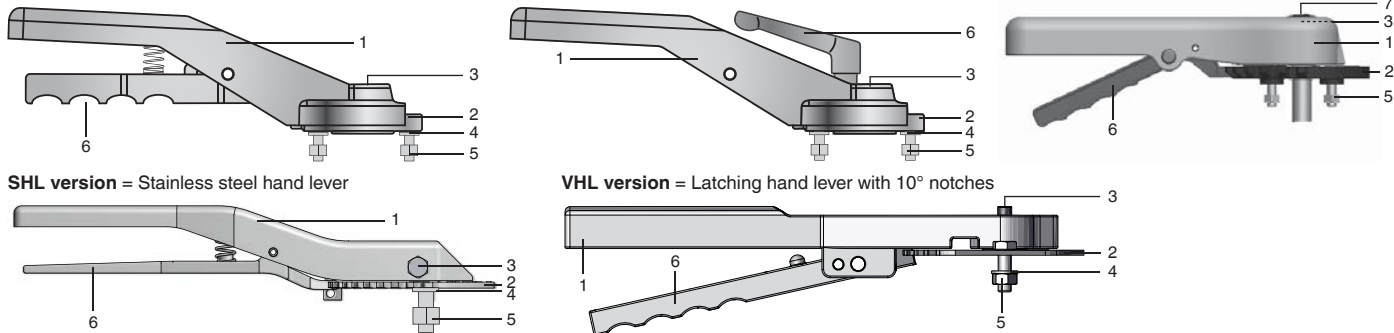


Supplement to the installation, operating and maintenance instructions GEMÜ 480 / 490 / D480 / D450 / R470 / R480

AHL / DAHL version = Latching hand lever with 10° notches **SAHL version** = Continuously adjustable hand lever **PHL version** = Latching hand lever with 15° notches



Actuator disassembly

	Tools required:
	x Allen key
	x Ring wrench or open-end wrench

⚠ WARNING

The equipment is subject to pressure!

- Risk of severe injury or death!
- Only work on depressurized plant.

⚠ WARNING

Corrosive chemicals!

- Risk of caustic burns!
- Wear appropriate protective gear when disassembling.

⚠ CAUTION

Hot plant components!

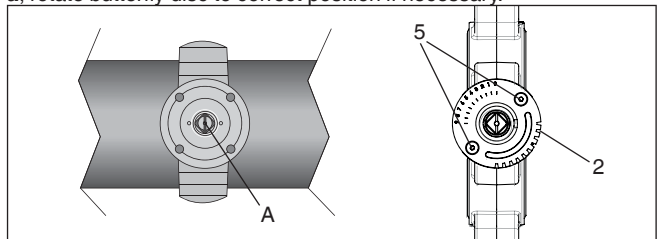
- Risk of burns!
- Only work on plant that has cooled down.

1. Put on appropriate protective gear.
2. Shut off plant or plant component.
3. Secure against recommissioning.
4. Depressurize the plant or plant component.
5. 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.
6. Correctly decontaminate, rinse and ventilate the plant or plant component.
7. Remove the actuator (see installation, operating and maintenance instructions GEMÜ 480 / 490 / D480 / D450 / R470 / R480, chapter "Removing the actuator").

Mounting the hand lever

	Tools required:
	x Allen key
	x Ring wrench or open-end wrench

- Check the position of the butterfly disc indicated by groove **a**, rotate butterfly disc to correct position if necessary.



- Groove **a** transverse to piping direction: Butterfly valve closed.
- Groove **a** in piping direction: Butterfly valve open.
- Place the grid plate **2** on the body.
- The butterfly valve product label must point forward.
- Align the grid as shown in the picture above.
- Fix grid plate **2** with two hexagon socket screws **5**, nuts and lock washers **4**.
- Put on hand lever **1**. Take care to align the positions of butterfly disc and hand lever (groove **a**)!
- Apply medium strength thread locking compound (Loctite 242) to the thread of screw **3** (VHL/AHL/DAHL version: M5 screw must be bonded with Loctite 242).

- VHL version: Observe disc position OPEN/CLOSED (marking on the grid plate). Square is controlled by mounting sleeves (square sleeve) suitable for the shaft connection specified in the parts list. For valves with double-sided flanges, the larger (outer) one is to be used.
- Fix hand lever **1** with screw **3**.
- After mounting check if the hand lever **1** is adjustable.

CAUTION

- Grid plate **2** must not rub on the hand lever **1**.

Hand lever disassembly

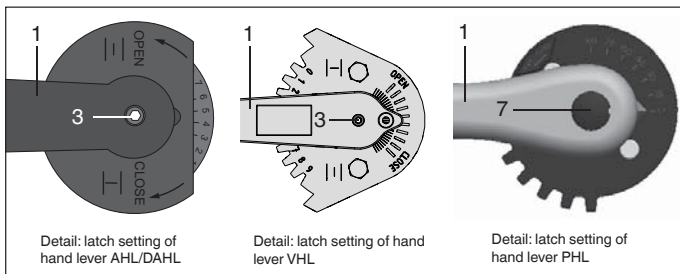
- PHL version: Remove protective cap **7**.
- Undo and remove screw **3**.
- Pull off hand lever **1**.
- Undo the two hexagon socket screws **5** with nuts and lock washers **4** which lie below.
- Remove grid plate **2**.

Operation of hand lever AHL/DAHL/PHL/VHL

- Press the locking device **6** upwards and hold.
- Move hand lever **1** to the desired position and latch.

CAUTION

- Do not open or close hand lever **1** with a fast movement.
- Do not extend hand lever **1**.



Operation of hand lever SAHL / SHL

- Release locking device **6**.
- Turn locking device **6** anticlockwise: Hand lever loose.
- Move the hand lever **1** to the desired position and fix the position with locking device **6**.
- Turn the locking device **6** clockwise: Hand lever fixed.

CAUTION

- Do not open or close hand lever **1** with a fast movement.
- Do not extend hand lever **1**.

