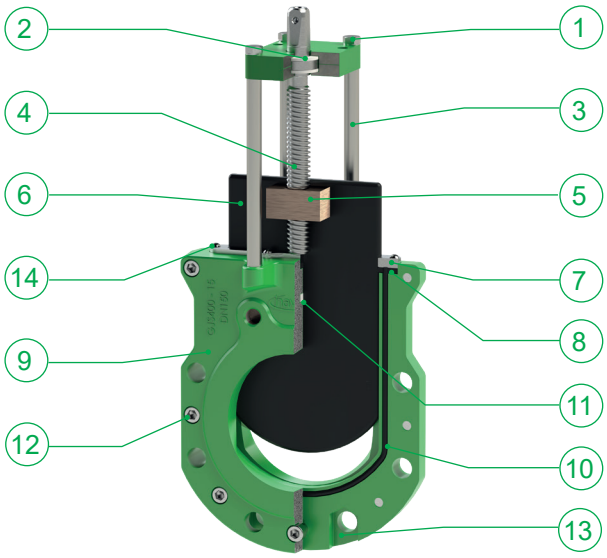
Operating and maintenance instructions for

Knife gate valve HaPur® with PUR-coated shut-off blade Ord.No. 392-00

1. Intended use / Product description



No.	Short term	Material
1	Bearing retainer	S235JR
2	Friction washer	POM
3	Tie bar	stainless steel
4	Spindle	stainless steel
5	Spindle nut	red brass *
6	Shut-off blade	S235 PUR-coated
7	Double-ring gasket	stainless steel
8	Body flat gasket	NBR
9	Body	GJS 400-15, Hawle epoxy powder coated
10	Sealing cord	NBR
11	Wiper	POM
12	Screw	stainless steel
13	Hexagonal recess	
14	Adjusting screw	stainless steel

Medium: Municipal sewage

Max. operating temperature: 0° - 40°

Max. operating pressure: 10 bar

Material: see table
UBA-BWGL metals*

Standards applied: Standard series 20 acc. to DIN EN 558-1, flange mating dimensions: acc. to EN 1092-2

The resilient-seated knife gate valve HaPUR® with straight-through bore has been conceived for municipal sewage disposal and can be used both in plants and in manholes.

The particularly smooth-running actuation of the HaPUR® knife gate valve can be effected via handwheel, shut-off key, extension set, electric or pneumatic actuator.

The gate valve can be installed both between two flanges and at the end of a pipeline. Due to the hexagonal recesses for nuts, the gate valve can also be used later as an end valve, for example, in case of pipe rehabilitation. The polyurethane-coated shut-off blade of the knife gate valve seals directly at the body. When worn, the sealing packing can be exchanged without dismantling the gate valve.

The completely polyurethane-coated shut-off blade is highly resistant against corrosion. Moreover, the shut-off blade is UV-resistant, cut-resistant, wear-resistant and break-proof.

The typical application forms of gate valves are “opened” and/or “closed”. Gate valves are no control valves! The gate valve is actuated via handwheel, shut-off key, extension set, or electric actuator. Lever extensions must not be used for operation.

When installing gate valves with electric or pneumatic actuators, the related operating instructions and the regulations regarding CE marking shall be observed. The only actuators admissible are slowly rotating actuators according to Hawle specifications.

During installation and maintenance operations, the applicable standards and guidelines, accident prevention regulations and the regulations of professional associations are to be observed and complied with.
Installation and maintenance operations may be performed by qualified personnel only.

Accesoires: (see separate operating instructions)

780-00 Handwheel for gate valves and butterfly valves	864-00 Drive unit with control	electric actuator on request

2. Installation

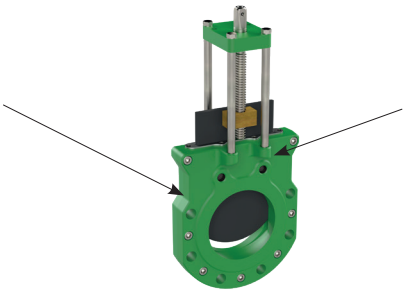
	Wrench according to nominal width

Flanged connection:
For installing the knife gate valve in the pipeline, the respective DWA provisions for establishing flanged connections shall be observed.

Installation position:
The knife gate valve is installed in horizontal position with the vertical spindle pointing upward (+/-30°).

In case of an existing gap:

First install the through bolts,



Then fit stud bolts for internal thread.

3. Commissioning and pressure-testing

After the successful installation, the knife gate valve shall be subjected to a pressure test observing the maximum operating pressures as specified in the DWA regulations (see also DIN EN 1671 and DWA-A 116-2).
After the leakage test, a function check has to be performed.

4. Servicing and maintenance

Hawle knife gate valves do not require any maintenance.
To ensure a trouble-free operation, we recommend actuating the gate valve once a year and to relubricate the shut-off blade with a silicone lubricant.
In the event of a wear-related leakage at the blade gasket, the gate valve can be resealed by retightening the six fixing screws, or the gasket can be exchanged.

In line systems with increased formation of fermentation gas, the gate valve must be checked at regular intervals for being gas tight.

Apart from the functional check, gate valves with electric actuators require a visual check of the gate valve, the actuator, and the electrical installation at least once a year. The European regulations regarding CE marking (e.g. EU Machinery Directive, EU EMC Directive, accident prevention regulations, ...) shall be complied with.

* Brass/red brass components > 0.1% lead acc. to regulation (EU) No. 1907/2006 (REACH Regulation)

If you have any other questions or if you need more information, please contact:

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