

INSTALLATION OPERATION AND MAINTENANCE INSTRUCTIONS KNIFE GATE VALVE

Working temperature 0 °C/90 °C

Flanges drilled acc. to DIN2642 (PN10).

**WARNING: NEVER PUT HANDS OR ANY OTHER OBJECT IN THE GATE VALVE—
SERIOUS INJURIES WILL OCCUR AND VALVE WILL BE DAMAGED.**

PRE – INSTALLATION:

To minimize straining of valve body, make sure the mating flanges are: in line, flat, parallel and correct distance apart.

INSTALLATION:

The arrow on the valve body must be pointing in the direction of intended flow. The preferred orientation is with the stem vertical and the hand wheel or actuator pointing up. The opposite orientation is not recommended, because fiber and dirt can build-up in the bonnet.

Check that the distance between flanges matches the face-to-face dimension of the knife gate valve. Before installing the valve, spread the flanges apart sufficiently using a suitable tool. Slide the wafer valve between the opened flanges and insert the flange bolts through the adjusting holes. Tighten the flange bolts hand-tight as the tool holding the flanges apart is removed. Make sure that the flanges remain correctly aligned, carefully tighten the bolts around the flange using the prescribed torque. Bolts should be tightened gradually in a star or crisscross pattern.

STORAGE, PROTECTION, OPERATION, DISASSEMBLY AND MAINTENANCE

STORAGE AND PROTECTION:

CAUTION: IF THE VALVE IS TO BE STORED FOR A LONG PERIOD OF TIME BEFORE INSTALLATION IT SHOULD BE STORED IN A COOL, DRY AND CLEAN WAREHOUSE TO PREVENT DAMAGING EFFECTS.

Valves stored for a longer period should be maintained as follows:

- Clean the dirt and grease machined surfaces with some antirust oil at least every 3 months.

OPERATION:

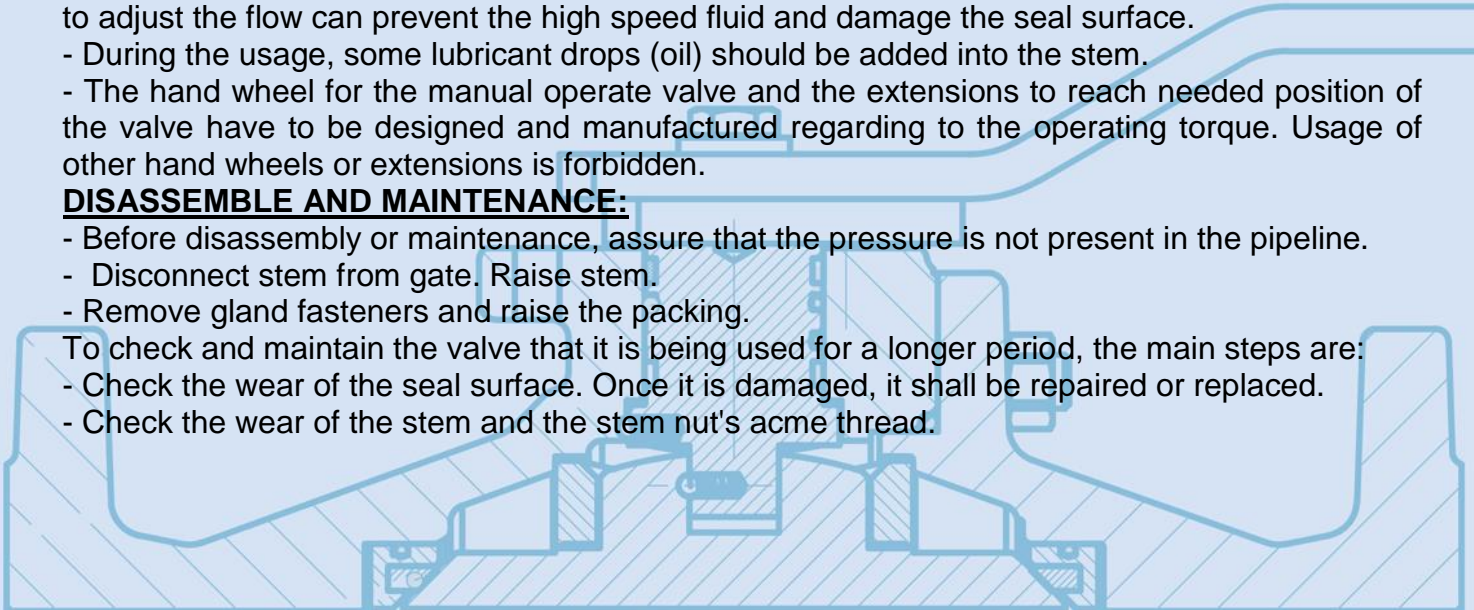
- When it is working, the gate has to be fully opened or closed, because the partly closed gate to adjust the flow can prevent the high speed fluid and damage the seal surface.
- During the usage, some lubricant drops (oil) should be added into the stem.
- The hand wheel for the manual operate valve and the extensions to reach needed position of the valve have to be designed and manufactured regarding to the operating torque. Usage of other hand wheels or extensions is forbidden.

DISASSEMBLE AND MAINTENANCE:

- Before disassembly or maintenance, assure that the pressure is not present in the pipeline.
- Disconnect stem from gate. Raise stem.
- Remove gland fasteners and raise the packing.

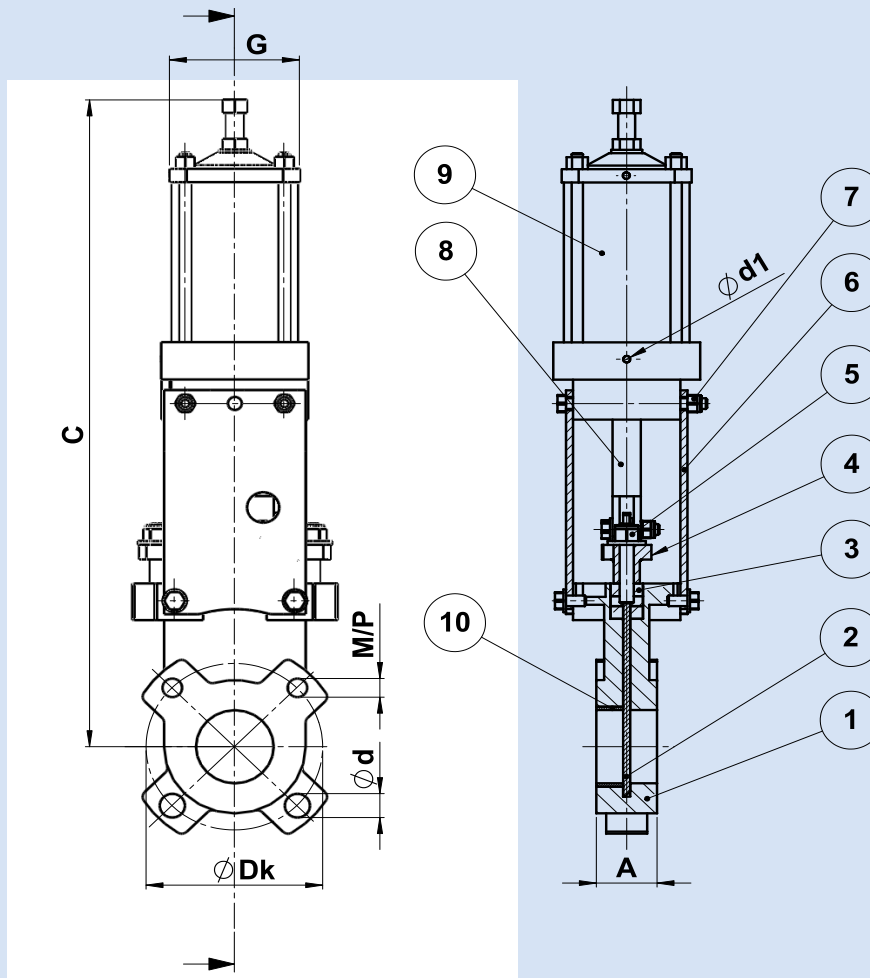
To check and maintain the valve that it is being used for a longer period, the main steps are:

- Check the wear of the seal surface. Once it is damaged, it shall be repaired or replaced.
- Check the wear of the stem and the stem nut's acme thread.



- Check the bolts and nut, assure tight connection.
- Check the packing, find out for eventual damages or abnormalities. If necessary, parts have to be replaced. Before replacement make sure pressure is not present in the system.

WARNING: THE GATE MUST BE SLIGHTLY OPEN WHEN INSTALLING.



1	Body	Cast Iron – GG25
2	Gate	Stainless Steel – A304
3	Packing	PTFE impregnated Syntex Fibre
4	Gland	Ductile Iron (Powder Coated)
5	Fasteners (gland)	Carbon Steel (Plated)
6	Side Plate	Carbon Steel (Powder Coated)
7	Fasteners (For Side Plate)	Carbon Steel (Plated)
8	Stem	Stainless Steel – A304
9	Actuator	Frp Tube
10	Seat	EPDM