

Operating and maintenance instructions for
**Sewage water knife gate valve with sockets -
BAIO® system Order No. 480-00**
**Sewage water knife gate valve spigot/socket -
BAIO® system Order No. 483-00**



1. Intended use / production description



Order No. 480-00



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Sewage water knife gate valve for buried installation with two BAIO® double function sockets for the restraint connection with BAIO® spigot ends and for connecting DCI, steel, PE and PVC pipes.

Spigot socket knife gate valve for sewage water for buried installation, with one spigot end for the restraint connection with BAIO® sockets, and with one BAIO® double function socket for the restraint connection with BAIO® spigot ends, as well as for connecting DCI, steel, PE and PVC pipes.

The reliable and tight shut-off function is ensured via a shut-off blade of hard-rolled stainless steel and an O-ring gasket package. The gasket package prevents solids from sticking to the spindle and, in case of repair, permits the exchange of the valve bonnet without taking the pressure line out of service.

Medium: municipal sewage water according to EN 1085

Max. operating pressure: 10 bar

Material: Body: GJS-400, Hawle epoxy powder coated
Spindel, shut-off blade: stainless steel
O-Ring gasket package: POM /NBR
DCI pipes: BLD® gasket / PE/PVC pipes: GKS gasket: EPDM
O-Ring-bush/spindle nut: brass/gunmetal*

Operation can be via handwheel, extension spindle or motorised rotary actuators (from DN 80, on request).

The typical applications for gate valves are "open" or "closed". Gate valves are not control valves! The gate valve is actuated by an extension spindle with underground installation. The handwheel or electric actuator must be used in the chamber or system area. Lever extensions for operation are not permitted.

The Hawle-gate valve must be protected from damage during transport.

When loading and transporting the gate valve with cranes, it may only be suspended from the ring bolts provided for this purpose. The spindles are equipped with internal threads into which ring bolts can be turned. The handwheel must not be suspended.

The pipeline must be cleaned before installing the Hawle gate valve. No foreign bodies must be present, as these can lead to malfunctions.

When installing gate valves with electric actuators, the relevant operating instructions and CE labelling regulations must be observed.

When laying, installing the pipes and during maintenance, it is necessary to refer to and comply with applicable standards and regulations, accident prevention regulations and regulations from trade associations. Installation, assembly and maintenance should only be carried out by qualified personnel.

2. Assembly

For assembly please see operating and maintenance instructions for BAIO® - system.

3. Service and maintenance

Hawle gate valves are maintenance-free, testing according to DVGW leaflet W400-3.

To ensure trouble-free operation, we recommend actuating the gate valve once a year (earlier if deposits are to be expected).

For gate valves with electric actuators, a visual inspection of the gate valve, actuator and electrical installation is required at least once a year in addition to the functional check. European regulations on CE labelling (e.g. EC Machinery Directive, EC EMC Directive, accident prevention regulations, ...) must be observed.

3.1 Replacement of the valve bonnet under pressure (up to DN 200)

1. Open the gate valve completely
2. Loosen the body screws
3. Remove the upper part of the valve
4. Mount a complete new upper part

4. Commissioning and pressure testing

After successful installation, a pressure test must be carried out in an open pipe trench, observing the maximum operating pressures in accordance with DWA regulations.

Following the pressure testing, a functional check must be carried out.

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

[Should you have questions or need further information, please contact:](#)

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