

## 1. BEFORE INSTALLATION

Piping connection flanges should be parallel to each other.

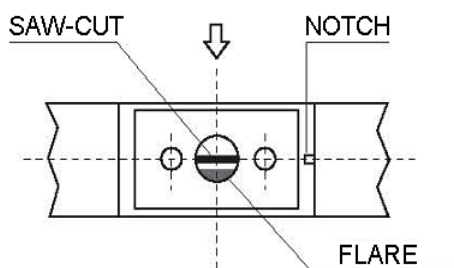
Thoroughly clean the flanges surface of both pipe and valve.

Insert gaskets concentrically and introduce the screws connecting flanges evenly, avoiding faulty clamping of the butterfly valve body.

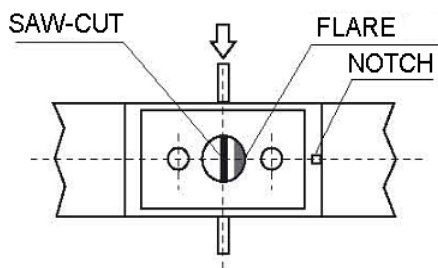
Any axial forces - such as thermal expansion - must be balanced by expansion joints. Make sure that the butterfly valve would not be affected by axial load of the pipeline or would be used as a fixed point to support the pipe. Put the valve onto "Closed position" and check its function. Avoid any forced action.

In "Closed position", the saw-cut at the upper spindle-end, equipped for controlling the position of the valve, and the notch on the spindle and on the frame must have the same orientation.

### VALVE ON CLOSED POSITION



### VALVE ON OPEN POSITION



Set both the valve as well as the actuator in OPEN position by hand and after electrical actuator construction, back in approx. 45° position.

Connect the electrical gear motor in accordance with the wiring diagram, supplied apart and check right operation and the correct rotation way of actuator.



### WARNING

**In closing direction, please drive the actuator with torque switch.**

Use the limit switch in closing direction only as control-switch [signal]. With hydraulic motors, check opening and closing of springs.

Generally, set both the actuator and the valve on open position during the installation of the gear motor.

From DN 200 onwards, the valve must be installed horizontally.

By butterfly valve with ledge seat, the bottom part of the valve disc should open contrary to the flow direction. Any deviation should be reported at purchase time.

Make sure that the bottom side of the valve disc would act upstream, by opening the valve. Open and close the valve several times, to check the correct operation.

## 2. MAINTENANCE

A special stuffing box packing and a mobile sealing ring ensure the tight leak of the spindle. Adjustments are possible during operation.

### WARNING



**Keep the butterfly valve fully open, during start-up at high pressure and high-speed flow, to avoid pressure falls.**

**Do not insulate the pipe near the sealing.**

All the reported data are subject to be changed without notice.

Form 110519