

BUTTERFLY VALVE 4100

INSTALLATION INSTRUCTION AND STEPS

4100 Butterfly valve is one of the most common valve type in the industrial pipeline. It has small volume, small flow resistance, quick open and close, two-way sealing and can be installed in any position. It is widely used in the fluid, and semi-fluid medium pipeline.

Pre-Installation Instruction:

1. Before installation, first make sure all valve seat and pipe flange faces are free of dirt, grit, dents, or surface irregularities, which may disrupt the flange sealing and cause external leakage.
2. Carefully check whether the condition is consistent with the performance specification of the valve. (Temperature, Pressure, Medium)
3. The valve should be installed in time after opening the packing. Please do not loosen or tighten any set screw or nuts on the valve. Ensure the seat is not exposed to the sun and dust, and not have scratches.
4. Wafer type butterfly valve must use the suitable flange.
5. Electric butterfly valve can be installed in any position on the pipeline.

Do not reverse installed in order to convenient maintenance.

6. When the butterfly flange is installed, please make sure that the flange and valve sealing surface rubber must aligning, tighten the bolts evenly, the sealing surface must be fit completely. If the bolts tightened not evenly maybe occur leakage.

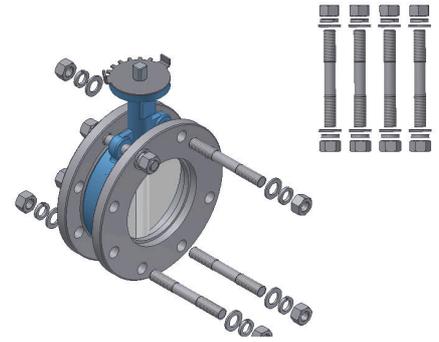
7. This type valve biggest opening angle is 90, the disc can be opened in any position between 0° - 90° , for the purpose of opening, closing and control the fluid.

Installation steps:

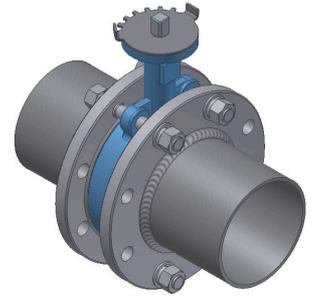
1. As shown in the figure, the valve is placed between two pieces of pre-installed flange. Note that the flanges should be parallel, flange surface should be flat, no burr and acute angle around the sealing surface and bolts holes should be aligned neatly.



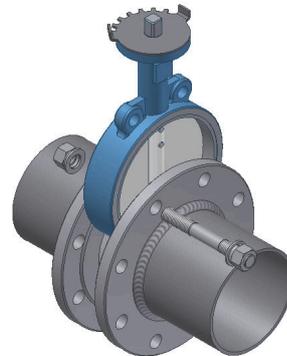
2. Insert four pairs of bolts /nuts gently into the flange hole and tighten the nuts to correct the plane degree of the flange face. Note this type valve does not require adding sealing gasket.



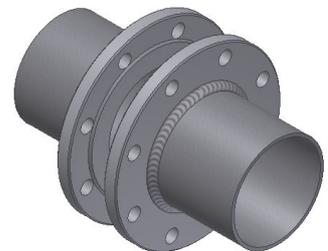
3. Using spot welding to fixed the flange into the pipeline.



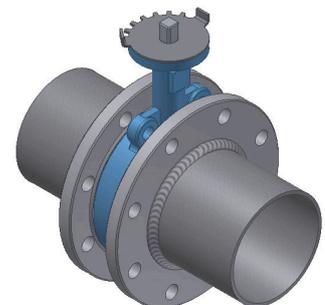
4. Move the valve out of the flange.



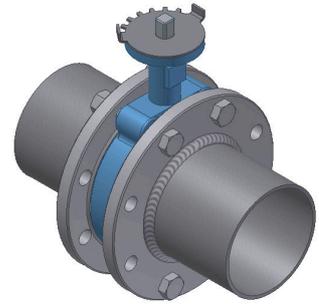
5. Fix the flange on the pipeline completely by welding. When welding, it should be uniform and fast, to prevent to product welding stress, cause the flange surface deformation. Ensure the two pieces of flanges are parallel and perpendicular.



6. Install the valve after solder cooling. Ensure the valve has enough space between the flanges to prevent the valve damaged and ensure the disc has some opening angle.



7. Correct the valve position and tighten the four pairs bolts.



8. Open the valve to ensure the disc can opened and closed freedom.

9. Correct the valve position and tighten the two face bolt in order of diagonal.

10. Recheck the valve can be opened and closed freedom. Note:the disc can not touch the pipeline.

11. Suggest using pipe brackets to support the larger size valves

