



2" – 24"

J & S Valve®

2" - 24" Commercial Butterfly Valves

Installation, Operation, & Maintenance Instruction For Commercial Butterfly Valve

Pipe Flange Requirements: J&S Butterfly Valve are designed and tested for installation in accordance with BS5155 and MSS SP-67, bolt circle dimensions are suitable to the BS EN 1092-2 PN10/PN16, ANSI B16.1 Class 125 flanges. Other flanges types are available.

Ensure pipe/flange I.D. is greater than the open valve disc, particularly on cement or rubber lined, or welded pipe.

Suitable Media: J&S Butterfly Valve is suitable for Water, Oil and Gas.

The Working Temperature for J&S Butterfly Valve is 100psi, from 14°F to 212°F for EPDM or 100psi, for 14°F to 90°F for NBR.

DO NOT weld near the valve, **DO NOT** use flange gaskets or sealing compounds.

Installation: J&S Butterfly Valve is bi-directional and will control flow in either direction of flow. In most horizontal pipe installation it is recommended that the valve be installed with its shaft horizontal and the lower disc edge opening downstream, particularly on slurry or sedimentary duties.

NOTE: The valve disc position is in line with the key way or flats on the operator end of the valve shaft. To protect disc edge during installation, removal or storage of valves, ensure the disc is in the nearly closed position (about 5°open) and within the confines of the valve body, but **NOT** fully closed as incorrect seat compression may occur.

With suitable tooling spread the flanges clear of the valve and seat, insert valve, then flange bolts. Before fully cross tightening bolts, check flange alignment and operate valve slowly to ensure disc clearance and seat compression is correct.

Operation: J&S Butterfly Valve is operated by lever handle or gear operator. If using the lever handle, the valve is fully opened to rotate it counter clockwise 90°. If using the gear operator, the valve is fully opened to rotate the handwheel on it counter clockwise the position stop.

Maintenance: No routine maintenance or lubrication is required.

Repairs: J&S Butterfly Valve is field repairable. If it is necessary to comments to replace components, the valve must be removed from the pipe.

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Procedure:

1. Partially close valve (5°open).
2. Disconnect power supplies; remove operator on larger valves;
3. remove sufficient flange bolts; spread flanges and remove valve.
4. Silicone base oils or grease may be used on all parts to facilitate disassembly and assembly. **DO NOT** use hydrocarbon based products with EPDM seats.

DISASSEMBLY:

1. Open valve.
2. Remove operator from valve.
3. Withdraw shaft using twisting action.
4. Remove bushing and stem seal.
5. Remove disc by pulling and rolling out of seat.
6. Remove seat by pushing straight out of body –a rubber hammer can be used to assist or hydraulic press on larger sizes.
7. Inspect and discard parts as necessary.

ASSEMBLY:

1. Clean all reusable parts.
2. Lightly lubricate seat O.D. and seat stem holes internally with silicone oil.
3. Align stem holes on body and seat.
4. Insert seat into body by pushing or tapping with rubber hammer (or hydraulic press on larger sizes).
5. Re-insert shaft until it slightly protrudes into bore.
6. With screw holes towards and into valve base.
7. Align shaft disc screw holes (counter bored side towards disc holes).
8. Insert “O” rings and bushing and tighten.
9. Circle valve to check assembly