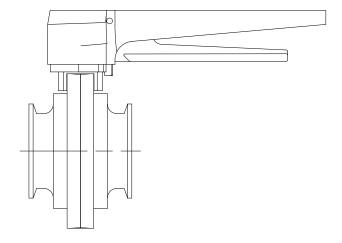








OPERATING MANUAL SANITARY MANUAL BUTTERFLY VALVE



Instructions:

- 1. Steel & O'Brien manual butterfly valves are designed for use with diff erent standards and require a low torque for opening and closing. This valve can be used with diff erent handles or can be modified for actuation.
- 2. When installing, determine that the valve disc is set in the correct position, open or closed.
- 3. When the screws on the body are properly tightened they will bottom out. For proper performance these bolts should be checked before installation.
- 4. Check the correct open or closed position of the valve as handles may have been adjusted in the field.
- 5. Before installation, check that the handle is connected tightly to the valve body.
- 6. Keep all valve surfaces as clean as possible to prevent corrosion.
- 7. For proper cleaning of all parts and surfaces the valve must be disassembled.
- 8. Any loose screws or modifications to the bolts may affect valve performance.
- 9. Check valve seat often to avoid leaking, replace as needed.

Manual Butterfly Valve

Notices:

A. PRECAUTION BEFORE USING:

- a. Stock butterfly valves in a dry area, if possible leave in original packaging prior to use.
- b. To prevent damage, do not stock valves laying on handle.

C. ASSEMBLY ON THE PROCESS LINE:

- a. Weld end:
 - 1. Disassemble the weld flanges prior to welding. This will prevent heat damage to the valve seat.
 - 2. Clean all inner surfaces while assembling after welding.
 - 3. Tighten all screws and bolts.
 - 4. Open and close the valve a few times to ensure proper reassembly.

b. Clamp End:

- 1. Before installing verify correct valve connection size and style with the process line size and style.
- 2. Properly install the valve according to the connection style.

D. CHANGING HANDLE STYLES:

- 1. The pull handle and trigger handle can be assembled on the same valve body.
- 2. Check the dimension of the stem vs. the dimension on the handle to assemble the correct handle.
- 3. Remove set screws and/or handle bolts.
- 4. Install the new handle onto the stem. Tighten handle bolts and/or set screws.
- 5. Open and close the valve a few times to insure functionality.
- 6. Check the handle position, open or closed, after assembling the valve.

E. WORK TEMPERATURE & PRESSURE:

- 1. Working pressure (water @68°f)
 - 1" 4" up to 145 psi (10 bar)
- 2. Torque required to fully open and fully close valve:

Size	1"	1-1/2"	2"	2-1/2"	3"	4"
N*m (newton meter)	13	13	16	18	23	34
Inch-Pounds	115	115	141	159	203	300

Note: values may vary depending on seat material

Manual Butterfly Valve

Valve Notes:

Valve seats are available in the following materials:

EPDM

VITON

SILICONE-RED

Valve seats are also offered on their own.

Valve body seats should be inspected regularly for wear.

Body: Precision machined and milled from 304ss, 316ss and 316L.

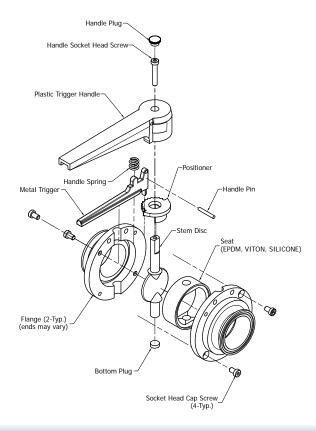
Body connection can be changed and is available in many variations including: Weld, Clamp, Bevel Seat, SMS, DIN, 3A and other options available.

Disc is fully machined and has a polished surface of less than 0.6μm (25Ra μ in)

Disc stem assembly with handle or actuator has a stem top square dimension of 9.5mm, 8mm x 12mm, or 12mm x 12mm depending on the valve size.

Handles:

Trigger handle is made from reinforced nylone and offers 12 disk positions. Pull handle is made from stainless steel and offers 2 disk positions. Trigger handle is also available in 304ss material and offers 12 disk positions. Handles are interchangeable.



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