

# BUTTERFLY VALVE DISASSEMBLY & REASSEMBLY

## DISASSEMBLY AND REASSEMBLY PROCEDURES FOR LEVER-OPERATED BUTTERFLY VALVES

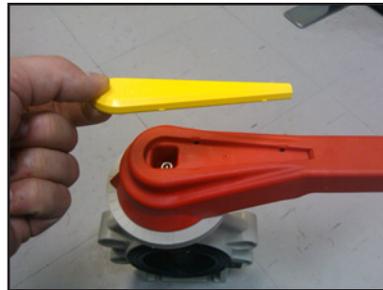
This technical sheet provides step by step instructions for the disassembly and reassembly of a Netafim Lever-Operated Butterfly Valve. The following photographs are of a 3" Butterfly Valve.



**Tools Required:**  
Flathead screwdriver  
5mm Allen key  
13mm open-end or box wrench

### DISASSEMBLY PROCEDURE

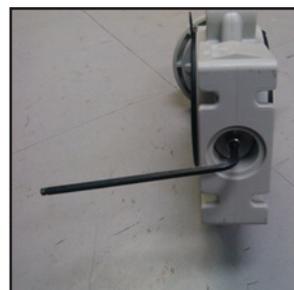
**STEP 1:** Remove the yellow insert from the handle. The insert can easily be popped off using a flathead screwdriver.



**STEP 2:** Remove the bolt under the yellow insert with a 5mm Allen key. Once the bolt is removed, the handle can be separated from the valve.



**STEP 3:** Remove the white plug from the base of the valve using a flathead screwdriver and remove the bolt with the 5mm Allen key.

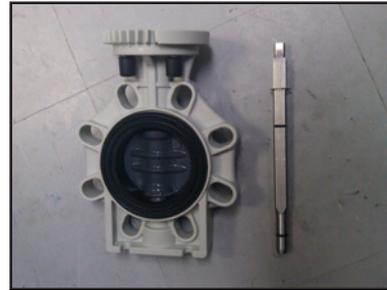


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**STEP 4:** Remove the shaft. The shaft exits from the top of the valve body. Push on the bottom of the shaft using a screwdriver to free it up.



(Use caution to not damage the threads on the shaft when removing)



**STEP 5:** Remove the disc. The disc can usually be pressed out by hand. If it does not release easily, carefully tap it free with a rubber mallet.



**STEP 6:** Remove the top plate. After removing the protective caps, use a 13mm wrench to remove the nuts. Once the bolts are free, the top plate can be separated from the body.

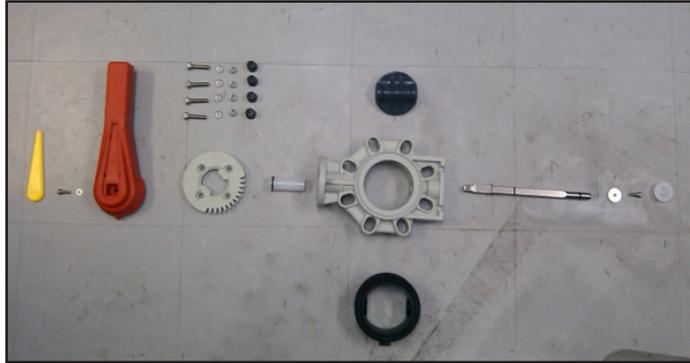


**STEP 7:** Remove the bushing. The bushing exits through the top of the valve body. Use your thumb to push the bushing upward so it can be removed from the valve body as pictured below.



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The butterfly valve is now disassembled.

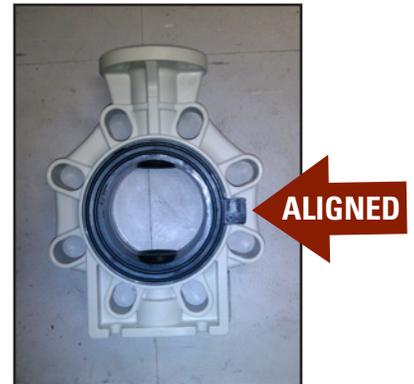
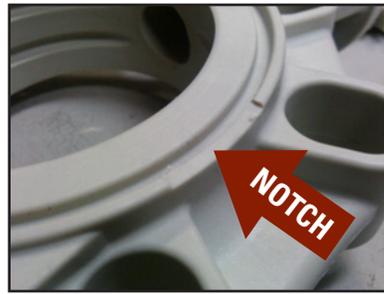


## REASSEMBLY PROCEDURE

Reassemble the butterfly valve by reversing Steps 1 - 7. Take note of the following tips during the process.

**TIP 1:** Torque Ratings for Bolts  
Handle bolt: 50 in-lbs.  
Top plastic 4 bolts: 25 in-lbs.  
Bolt on bottom of shaft: 50 in-lbs.

**TIP 2:** When installing the gasket, ensure that the gasket flap is aligned with the notch on the body.



Gasket in Proper Alignment

**TIP 3:** Notice that the disc has a square and circular end. Install with the square end facing the top of the valve.



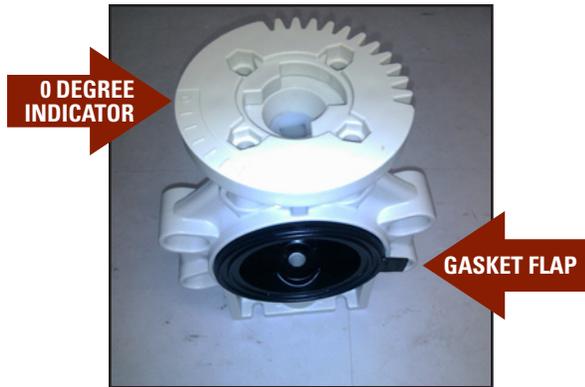
Square end denotes top of disc



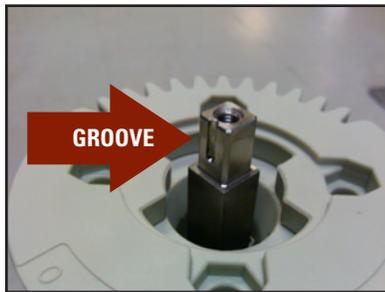
Circular end denotes bottom of disc

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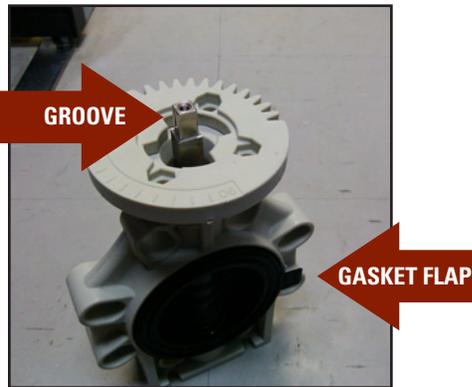
**TIP 3:** The mounting plate needs to be installed with the 0 (zero) degree indicator on the opposite side of the valve from the gasket flap.



**TIP 4:** When installing the shaft, the square end of the shaft must be oriented at the top of the valve body. Notice the groove at the top of the shaft (square end). This groove needs to be on the opposite end from the gasket flap. See pictures below.



Square end of shaft at top of valve



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