

The following 18 steps show how to install worm gear operator kit onto **SJ-C300** butterfly valve body.

- Tools needed:
 - Screwdriver (Phillips #2 or #3)
 - Open end or box end wrench (13mm or 1/2")
 - Hammer



- Gear operator component list
 - Gear box
 - Handwheel (with pin)
 - 4 bolts
 - 4 washers
 - Pin hole aligner



- Prepare the SJ-C300 valve body.



- Make sure two bolts & nuts on the gear box arrive loosened with space between the nut and the gear box body.



- Align the groove and plug in valve body shaft into gear box.



- Screw in 4 bolts on the valve body.



- Tighten 4 bolts on the valve body.



- A. With the arrow indicator side facing upward, tighten the bolt on the right and loosen it by quarter turn.

B. Make sure the valve disc is rotatable (open by 45 degree and then turn back to closed position).

C. Then tighten the nut against the gear housing.



- The arrow located at the top area of the gear operator will arrive loosened (with bolts/washers loose). Following step 8, point the arrow indicator to the "CLOSE" square marking in the middle and make sure the valve disk is fully closed.



10. After confirming the valve is fully closed and the arrow is pointing at the middle square marking on the closed side, tighten both screws securing the arrow in place.



15. Operate the gear box until arrow indicator is pointing at "CLOSE" square marking in the middle.



11. Fully open the valve disk, confirming the movement is functional without issues.



16. Align the pin provided with the hole on the hand wheel.



12. Following step 11, when in fully open position, make sure the arrow indicator is pointing at "OPEN" square marking in the middle.



17. Secure the pin by hammering it in.



13. Following step 12, tighten the bolt on the left and loosen it by quarter turn. Make sure the valve disk is rotatable, then tighten the nut.



14. Use the pin provided to operate gear box. Confirm the valve is able to open and close properly.



18. With pin secured, make sure the hand wheel is functioning normally.

