



**Resilient Wedge
Gate Valves**

Reliable Connections™

Installation Instructions:

Convert Standard 14" - 36" Valves to Geared

The following instructions outline the procedure to convert Mueller® resilient wedge gate valve actuator from an operating nut to a gear unit. Note that Mueller Co. recommends that this change should be performed by qualified Mueller Co. personnel. If non-Mueller personnel perform this conversion, Mueller Co. will not be responsible for any leakage or future problems that may occur.

1. NOTE: If valve is commissioned in a line, isolate the valve from flow and relieve the pressure. Valves must be kept in vertical position during conversion to allow for reinsertion of stem.
2. Remove all stuffing box bolts from stuffing box.
3. Turn operating nut/stem in the closing direction until it has disengaged from the disc nut. At this point, the stem will be able to turn in the closing direction but will not continue rising out of the valve body.
4. Remove the stem/operating nut/stuffing box assembly by lifting the stem vertically out of the valve bonnet and set aside. Remove washer from bonnet recess.
5. Lubricate new washer with approved grease (Dow Corning 111) and place in bonnet recess.
6. Install new O-rings on geared stem and lubricate with approved grease.
7. Insert geared stem into bonnet, turning the stem in the opening direction until stem thrust collar is seated on bonnet flat. Continue rotating the stem two to three turns to ensure stem is firmly sealed. Lubricate and install washer on top of thrust collar.
8. Place geared stuffing box over stem and install bolts to connect stuffing box to bonnet.
9. Install bevel gear unit to geared adapter plate. Use cap screws to connect gear to adapter plate. Remove gear pipe plug.
10. Place adapter plate unit over stem. Align holes on adapter plate with holes in stuffing box and install bolts.
11. Rotate operating nut on bevel gear unit until gear and stem keyways are aligned. Install key by gently tapping into place with a punch.
12. Install cap screw and washer on top of stem and key.
13. Reinstall pipe plug into top of gear.

(continued)

Installation Instructions: (continued)

Convert Standard 4" - 12" Valves to Geared

The following instructions outline the procedure to convert Mueller® resilient wedge gate valve actuator from an operating nut to a gear unit. Note that Mueller Co. recommends that this change should be performed by qualified Mueller Co. personnel. If non-Mueller personnel perform this conversion, Mueller Co. will not be responsible for any leakage or future problems that may occur.

1. NOTE: If valve is commissioned in a line, isolate the valve from flow and relieve the pressure. Valves must be kept in vertical position during conversion to allow for reinsertion of stem.
2. Remove all stuffing box bolts from stuffing box.
3. Turn operating nut/stem in the closing direction until it has disengaged from the disc nut. At this point, the stem will be able to turn in the closing direction but will not continue rising out of the valve body.
4. Remove the stem/operating nut/stuffing box assembly by lifting the stem vertically out of the valve bonnet and set aside. Remove washer from bonnet recess.
5. Lubricate new washer with approved grease (Dow Corning 111) and place in bonnet recess.
6. Install new O-rings on geared stem and lubricate with approved grease (Dow Corning 111).
7. Insert geared stem into bonnet, turning the stem in the opening direction until stem thrust collar is seated on bonnet flat. Continue rotating the stem two to three turns to ensure stem is firmly sealed. Lubricate and install washer on top of thrust collar.
8. Place geared stuffing box over stem and install bolts to connect stuffing box to bonnet.
9. Install bevel gear unit to geared adapter plate. Use cap screws to connect gear to adapter plate. Remove gear pipe plug.
10. Place key in blind key slot in stem. Ensure key stays in slot (can use grease to assist).
11. Place adapter plate unit over stem. Align gear's key slot with stem key.
12. Rotate adapter plate unit to align bolt holes and install bolts. Reinstall pipe plug into top of gear.

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By deviating from the above listed instructions, you will void any product warranty and release Mueller Co. and its affiliated entities from any and all liability associated with the installation or use of this product. For details on the product's warranty, terms, and conditions, please visit www.muellercompany.com.