

Date: July 23, 2015
From: Midland Manufacturing
Subject: 4" Ball Valve Handle Rotation Change Instructions

Service Bulletin – SB-OMID-005

REASON FOR BULLETIN:

The following instructions describe the proper procedure to configure Midland A-520/522 Ball Valves for counterclockwise-to-open operation.

CONFIRMING STANDARD FACTORY CONFIGURATION (CW to OPEN)

The stop plate (Figure 1) is the factory-installed standard for clockwise to open. When oriented as shown in Figure 2 with the valve OPEN as recommended to prevent ball-handling damage, the stop plate's part number etching should be visible and an etched "O" located nearest to the position-limiting pin. In this orientation, the stop plate ensures that the valve will need to be turned in a counterclockwise direction in order to CLOSE.

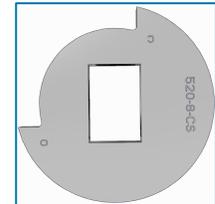


Figure 1 - Stop Plate



Figure 2 – Valve Open

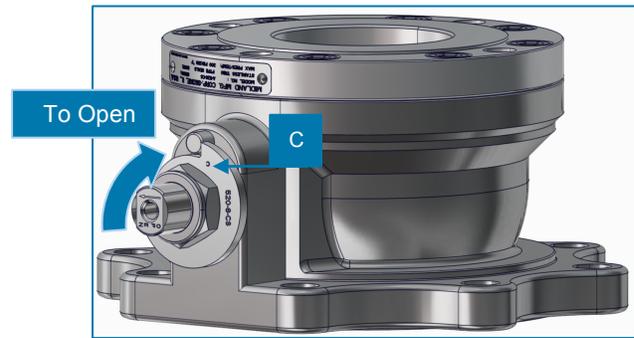


Figure 3 – Valve Closed

PROCEDURE TO CHANGE HANDLE ROTATION (CCW to OPEN)



CAUTION: It is critical for the following instructions to be completed as described; the valve position during each step is critical. Failure to follow these instructions as directed could result in an incorrect orientation of the ball and its vent hole that could negatively impact operation.

Step 1: If the valve is in the CLOSED position, using an assembly tool that is compatible with the threaded end of the stem or temporary handle installation turn the stem to put the valve in the OPEN position.

Step 2: Unscrew locknut in order to remove the stop plate.

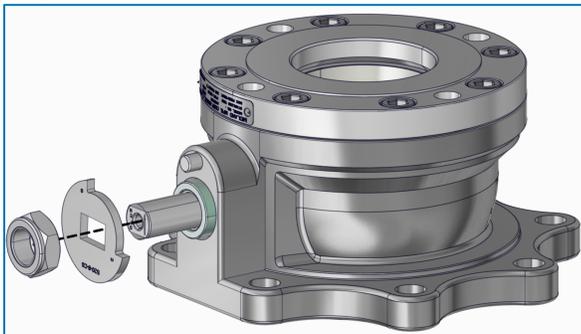


Figure 4 – Remove Stop Plate and Locknut

Step 3: Once the stop plate is removed, reinstall the stop plate as shown in Figure 6. **Be sure to flip the stop plate so that the part number etching is on the opposite side and not visible; see Figure 5.** In addition, the stop plate must be oriented so that the etched "O" is nearest to the position-limiting pin. (After installation, it will be necessary to view the opposite side of the stop plate to ensure that it has been installed correctly.)



Figure 6 – Installed Reversed Stop Plate

Step 4: Reinstall the locknut and torque to 150 ft-lb.

ADDITIONAL INFORMATION:

The 4" Ball Valve handle rotation maintenance instructions have been updated in the A-520/A-522 IOM.

Current: Doc. No. INST A520/A522, Rev. 1.4, 02/12

Revised To: Doc. No. A520/A522, Rev. 1.5, 06/15

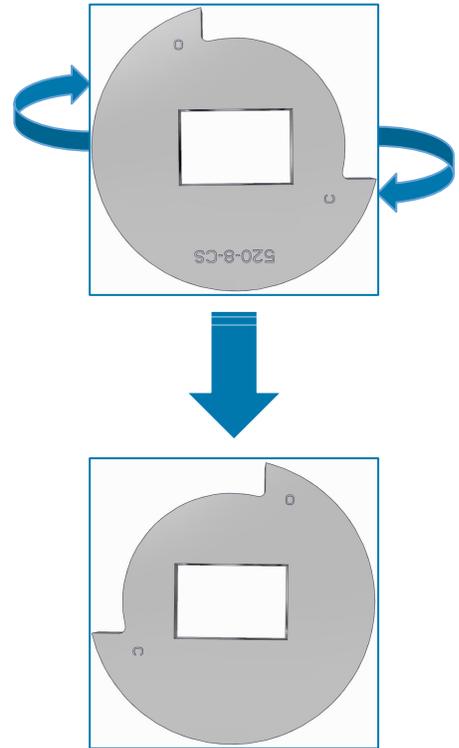


Figure 5 – Stop Plate Reversed

