

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

Ball Valves with Spring Return Handle

Packing adjustment instructions for Lead Free Bronze 585, Carbon Steel, and Stainless Steel 585 & 580 series ball valves.

Review Date: 9/3/2021

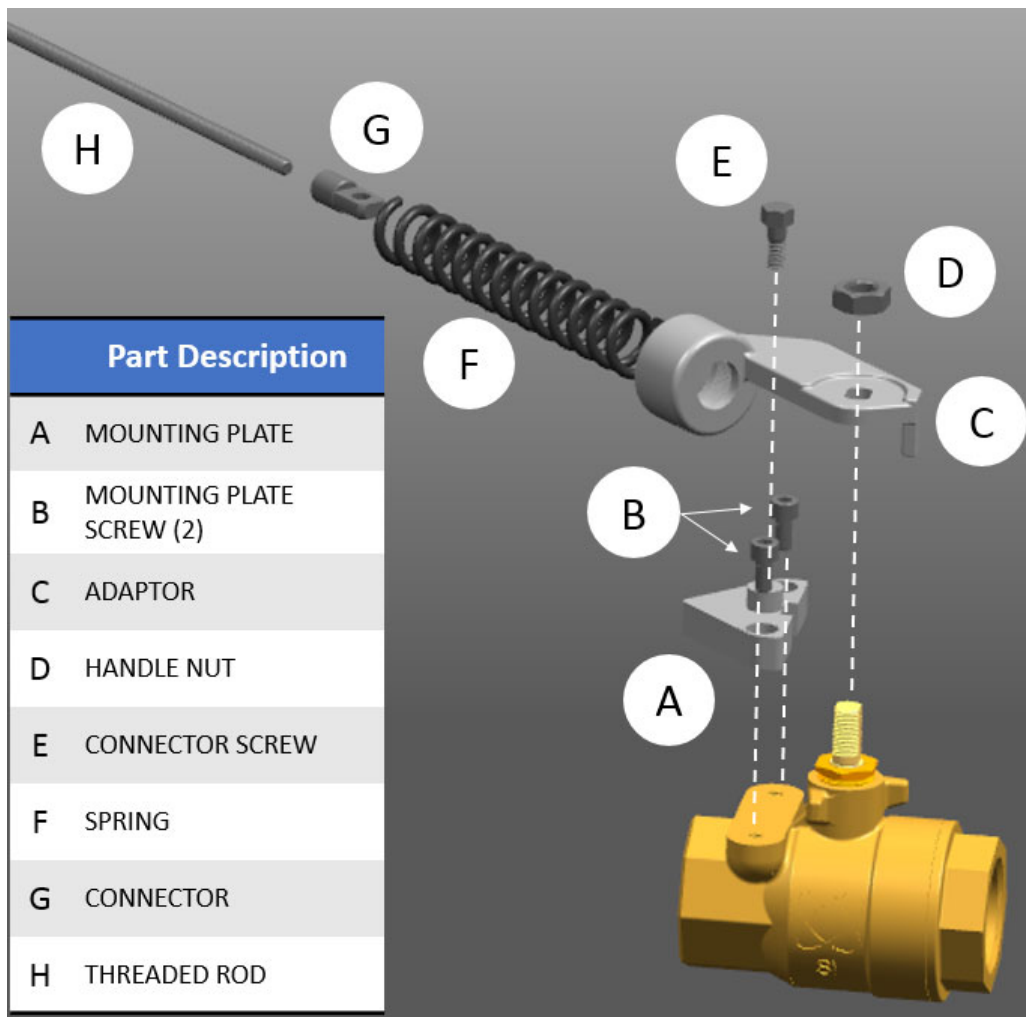
Original Date: 12/09/2019

Routine maintenance consists of tightening the packing to compensate for wear. When leakage occurs, the packing gland follower or nut (under handle) should be tightened in 1/8- to 1/4-turn increments just enough to stop leakage. To gain proper access to adjust the packing, it is recommended to remove the handle. This can be accomplished as follows:

Recommended Tools

- 5/16" Combination wrench or similar
- 5/16" Nut driver
 - Socket/wrench (see instructions for sizes)
- Torque wrench (inch-lbs.)

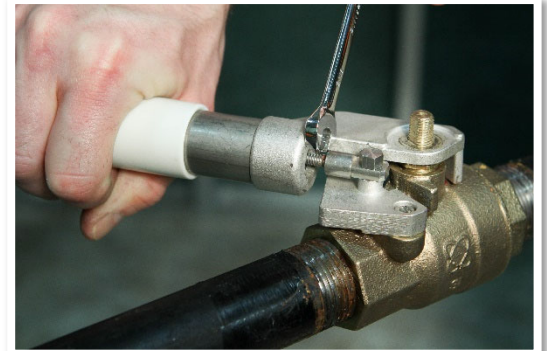
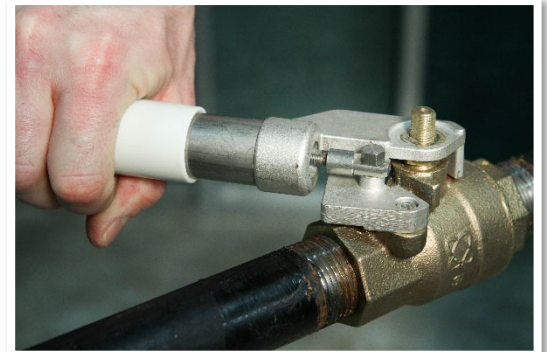
Part identification for reference



CAUTION: Only qualified personnel should undertake the procedures outlined in this document. NIBCO INC., its agents, representatives and employees assumes no liability for the use of these procedures. These procedures are offered as suggestions only.

Remove Handle Nut (D) and, if equipped, lock washer.

Valve Size	Handle Nut Hex Size	
	Bronze	Carbon Steel/Stainless Steel
1/4"-1/2"	1/2"	1/2"
3/4"-1"	5/8"	11/16"
1 1/4"-2"	7/8"	7/8"



Actuate spring return handle from closed position and insert open end of **5/16" wrench** into gap over Threaded Rod (H). Slowly release handle, allowing space between Connector (G) and Adaptor (C) to be taken up and wrench to be clamped.

! Open end of wrench should have a thickness of approx. 3/16" to 1/4".

! Double-check security of wrench to ensure it is firmly held and will not easily slip out -- if it does slip out on any subsequent step before **Step 7 (inserting shoulder screw after adjustment), additional tools may be required to compress spring-rod assembly in handle and re-insert wrench.**

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3 Remove Connector Screw (E) (5/16" hex size across all valve sizes).



4 Remove spring return handle assembly from stem and set aside, ensuring open-end wrench remains secure.






Tighten packing gland follower or nut in 1/8- to 1/4-turn increments just enough to stop leakage. NIBCO also offers a special thin-profile packing adjustment wrench for use on all 585/595 series ball valves (Part No. T067474 ASBLY).

5

Valve Size	Packing Nut Hex Size	
	Bronze	Carbon Steel/Stainless Steel
1/4"-1/2"	1/2"	9/16"
3/4"-1"	5/8"	3/4"
1 1/4"-2"	7/8"	7/8"



6	<p>Reinstall spring return handle assembly and Handle Nut (D) – including lock washer, if equipped – carefully, ensuring open-end wrench remains secure.</p>									
7	<p>Align thru hole in Connector (G) with threaded hole on Mounting Plate (A) and reinstall Connector Screw (E). Tighten Connector Screw (E) as follows:</p> <table border="1" data-bbox="185 646 638 783"> <thead> <tr> <th>Valve Size</th> <th>Torque Spec (in-lbs)</th> </tr> </thead> <tbody> <tr> <td>1/4"-1"</td> <td>17-29</td> </tr> <tr> <td>1 1/4"-2"</td> <td>57-95</td> </tr> </tbody> </table>	Valve Size	Torque Spec (in-lbs)	1/4"-1"	17-29	1 1/4"-2"	57-95			
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1/4"-1"	17-29									
1 1/4"-2"	57-95									
8	<p>Actuate handle slightly to remove 5/16" open-end wrench.</p>									
9	<p>Tighten Handle Nut (D) as follows:</p> <table border="1" data-bbox="185 1108 638 1287"> <thead> <tr> <th>Valve Size</th> <th>Torque Spec (in-lbs)</th> </tr> </thead> <tbody> <tr> <td>1/4"-1/2"</td> <td>30-40</td> </tr> <tr> <td>3/4"-1"</td> <td>40-50</td> </tr> <tr> <td>1 1/4"-2"</td> <td>120-180</td> </tr> </tbody> </table>	Valve Size	Torque Spec (in-lbs)	1/4"-1/2"	30-40	3/4"-1"	40-50	1 1/4"-2"	120-180	
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1 1/4"-2"	120-180									
10	<p>If safe to do so, actuate valve through full range of travel to ensure valve handle moves freely and returns to the normally-closed position. Resume valve's normal service. (If handle binds when actuating, double-check tightness of fasteners that were removed.)</p>									

For any additional information, please contact NIBCO Technical Services at 1.888.446.4226