



Instructions for the Conversion of Valves Equipped with Lever Handles to Wing or Oval

2 Otter Court, Raymond, New Hampshire 03077 • Tel. (603) 895-4761 • FAX (603) 895-6785

These instructions are intended to enable substitution of Wing (Suffix code 'W') or Oval (Suffix code 'R') handles, for the standard Lever handles (Suffix code 'L') on Gemini 76, 86 and 96 Series ball valves.

Please note that the small and medium size handles is installed using (2) nuts; the Lever handle nut and an additional stem nut supplied with the substitute handle kit. The placement of these nuts is crucial to the proper operation of the valve. The illustration identifies these parts by name and show their relationship to the other parts. The chart describes the position of the thick and thin nuts in the assembly for each valve size and series.

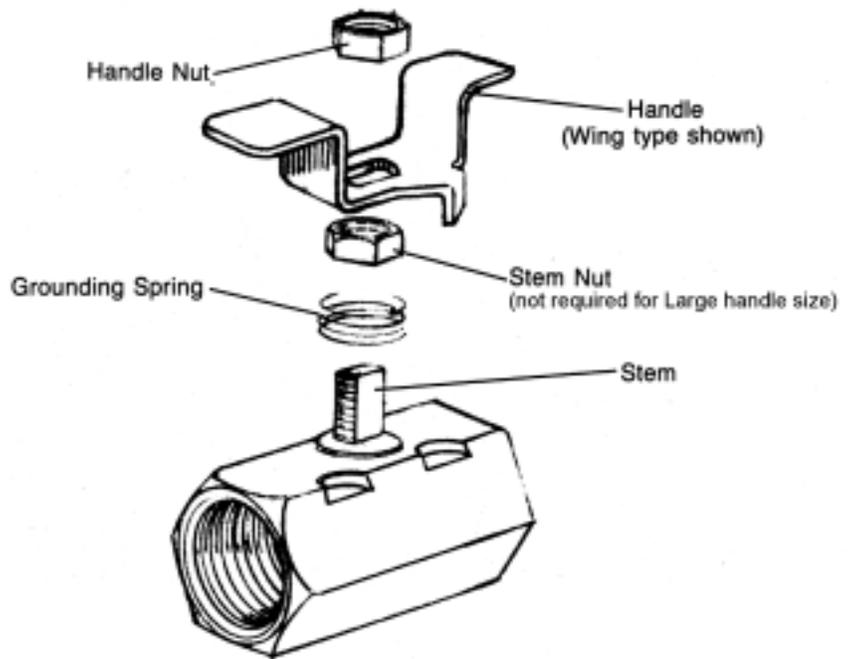
Instructions

1. Remove the stem nut and lever handle from valve. Remove grounding spring.

2. Check the chart for appropriate handle size. For Small & Medium, sizes place nut on stem. For Large replace grounding spring, new handle style and handle nut over stem.

3. Tighten until Belleville washers (springs) become fully compressed (flattened); the torque required to tighten the nut further increases sharply when this point is reached. Do not tighten the stem nut beyond this point. Note: If valve is not installed, a wood or plastic dowel may be inserted through the port to prevent the ball from rotating as the stem nut is tightened. If the valve is installed, the stem may be held with an adjustable wrench or other tool; pliers are not recommended.

4. Complete assembly for Small & Medium Sizes. Place grounding spring over stem nut. Engage handle on stem, push into place atop stem nut. Valve stem may have to be rotated slightly to permit the handle stop tang to engage stops in the valve body. Secure handle with appropriate handle nut.



Valve Size & Series			Size	Stem Nut Hex Size Across Flats	Handle Nut Hex Size Across Flats
76	86	96			
1/2 - 3/4	1/4 - 1/2	N/A	Small	1/2 hex, thin	1/2 hex, thick
1 - 1-1/4	3/4 - 1	1/2 - 3/4	Medium	9/16 hex, thick	5/8 hex, thin
1-1/2 - 2	1-1/4 - 2	1 - 1-1/2	Large	Not Required	3/4" hex