

INSTALLATION INSTRUCTIONS

MILWAUKEE HIGH PERFORMANCE BUTTERFLY VALVE (HPBV) HANDLE MOUNTING KIT

These instructions cover the assembly of the Handle Mounting Kits to the HPBV:

- 2 ½" – 4" (assy. requires 7/16" wrench & 1/8" hex wrench)
- 5" – 6" (assy. requires 9/16" wrench & 1/8" hex wrench)
- 8" (assy. requires 3/4" wrench & 1/8" hex wrench)

Parts list: Latch Plate (1), Split Lock Washers (2), Hex Head Cap Screws (2), Handle Assy. (1), Hex Nuts (2)

1. VALVE DISC ORIENTATION (photo 1).

Make sure that the Valve Disc is in the fully closed position (rotated fully clockwise), up against the "close position stop-boss" internal to the valve. **This is critical.** For 6" and smaller valves, note that the linear groove on top of the Valve Stem is in alignment with the Valve Disc, thus indicating whether the valve is OPEN or CLOSED (in this case closed). Similarly, the 8" valve has a keyway on the Valve Stem and a matching set of keyways in the Lever Handle.

2. LATCH PLATE MOUNTING (photo 2 – If necessary, can index 180° so that handle comes out on opposite side.)

Align, center and assemble the Latch Plate to the Valve so that the **OPEN** hole is at the 6 o'clock position, in alignment with the centerline of the Valve and Pipeline. Note that the **CLOSE** hole is at the 9 o'clock position. The Lock Washer and Nut go to the underside. Finger-tighten only, as further position adjustment will be needed.

3. LEVER HANDLE ATTACHMENT (photo 3)

- a. Slip the Lever Handle over the Valve Stem so that the axis of the Handle is in alignment with the groove on the top of the Valve Stem. On the 8" valve the keyway ensures alignment.
- b. Note the function of the spring-loaded Lock Knob. When the hole in the Lock Knob is in alignment with the Roll Pin, the Lock Knob moves down into the latch-capable position. When the Lock Knob is pulled up and rotated out of engagement with the Roll Pin, it is in the non-latched position.
- c. Align the Latch Plate so that the Lock Knob Pin on the Handle engages in the **CLOSE** hole on the Latch Plate.
- d. Adjust the engagement of the Lever Handle onto the Stem, so that the Locking Pin, when in the up position, just clears the Latch Plate, yet when down in the latch position, engages into the **CLOSE** hole in the Latch Plate.
- e. Tighten the Set Screw (1/8" hex) securing the Lever Handle to the Valve Stem.

4. LATCH PLATE POSITION ADJUSTMENT

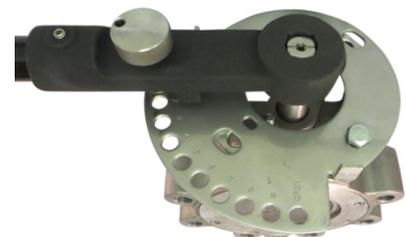
- a. Both the **CLOSE** position and **OPEN** position alignment must be satisfied. Adjust the Latch Plate positioning so that when the Valve Disc is fully closed (against the internal stop of the valve), the Latch Pin falls into the **CLOSE** hole. Move the Lever Handle to the **OPEN** position and note if adjustment is necessary but do not adjust yet as all adjustment will be made with the Latch Pin back in the **CLOSE** hole. With the Latch Pin in the **CLOSE** hole then make the estimated adjustment the **OPEN** hole. Check and adjust again until they are aligned.
- b. Tighten down the Latch Plate.
- c. Re-check the alignment at **CLOSE** and **OPEN**. Re-adjust if necessary, until full alignment is achieved.



1. ORIENTATION



2. LATCH PLATE MOUNTING



3. LEVER HANDLE ATTACHMENT