Installation Instructions

Series 726 Vic-Ball® Valve

• Instructions for Lever Handle to Gear Operator Conversions

• Instructions for Adjusting Closed and Open Travel Limit Stops on Gear Operators

⚠ WARNING

- **Read and understand all instructions before attempting to install, remove, or adjust any Victaulic piping products.**
- **Wear hardhat, safety glasses, and foot protection.**

Failure to follow these instructions could result in serious personal injury and/or property damage.

⚠ WARNING

- **Disable the system's pump before performing any operator conversions.**
- **There must be ZERO differential pressure between the valve and the inlet and outlet.**

Failure to follow these instructions could result in serious personal injury and/or property damage.

REQUIRED PARTS

The following parts are required for installing a gear operator onto a Series 726 Vic-Ball Valve.

Qty.	Description
1	Gear Operator
1	Drive Hub
1	Stem Adapter
1	Bracket

Qty.	Description	Valve Size – inches/millimeters					
		1½ (40)	2 (50)	2½ (65)	3 (80)	4 (100)	6 (150)
		Size of Hardware (Metric)					
1	Flat Washer	M6	M6	M8	M8	M10	M10
3	Lock Washer‡	M6	M6	M8	M8	M10	M10
4	Lock Washer§	M8	M8	M8	M8	M8	M8
4	Hex-Head Screw (for mounting bracket to valve)	M6 X 1.0 (16 mm Long)	M6 X 1.0 (16 mm Long)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)	M10 X 1.5 (16 mm Long)	M10 X 1.5 (16 mm Long)
4	Hex-Head Screw (for mounting gear operator to bracket)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)	M8 X 1.25 (16 mm Long)

‡ Lock washers required for installing the bracket to the mounting plate of the valve.
§ Lock washers required for installing the gear operator to the bracket.

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REMOVAL OF LEVER HANDLE

To remove a lever handle for installation of a gear operator, perform the following steps.

1. Remove the handle assembly nut from the lever handle, as shown above.

2. Remove the identification tag and the lever handle. **NOTE:** Keep the identification tag for assembly onto the gear operator.

3. Remove the locking plate from the valve.

4. Using an allen wrench, remove the screw from the mounting plate of the valve.

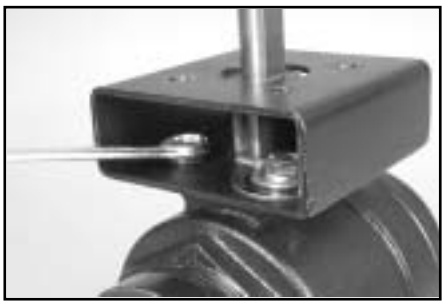
INSTALLATION OF GEAR OPERATOR ASSEMBLY

1. Install the bracket onto the valve body by aligning the holes of the bracket with the holes in the mounting plate of the valve.

2. Install the stem adapter by positioning the flats of the stem adapter over the flats of the valve stem, as shown above.

3. Place a lock washer onto a hex-head screw, and hand-tighten the screw into one of the holes in the bracket and the mounting plate of the valve. Repeat this procedure two more times. **NOTE:** Refer to the "Required Parts" chart on page 1 for the proper hex-head screw size and lock washer size.

3a. On the fourth hex-head screw, install a flat washer, then the identification tag (with lettering facing toward the hex head of the screw). Hand-tighten this hex-head screw into the final hole in the bracket and mounting plate of the valve. Refer to the above photo.



3b. Tighten the four hex-head screws until the lock washers are flattened.

4. Insert the drive hub into the gear operator by aligning the key of the drive hub with the keyway in the gear operator, as shown above.

5. While supporting the drive hub, install the gear operator onto the stem adapter by positioning the flats of the drive hub over the flats of the stem adapter. Make sure the indicating arrow on top of the gear operator indicates the correct disc position.

6. Place a lock washer onto each of the four hex-head screws, and hand-tighten the screws into the holes in the bracket and the gear operator. **NOTE:** Refer to the "Required Parts" chart on page 1 for the proper hex-head screw size and lock washer size.

6a. Tighten the four hex-head screws until the lock washers are flattened.

7. Open and close the valve to ensure proper operation of the gear operator.

ADJUSTING AND SETTING THE GEAR OPERATOR'S CLOSED TRAVEL LIMIT STOPS

1. Remove the protective cap from the right side of the gear operator.

2. Loosen the hex lock nut (counterclockwise).

3. Using an allen wrench, loosen the internal set screw approximately three turns (counterclockwise).

4. Turn the hand wheel in the clockwise direction to place the disc in the closed (shut) position. Verifiy that the valve is in the closed position by aligning the flats on the stem perpendicular to the flow centerline.

5. Using an allen wrench, tighten the internal set screw (clockwise) until it contacts the internal quadrant gear.

6. Tighten the hex lock nut (clockwise).

7. Check for proper valve operation by turning the hand wheel of the gear operator.

8. Replace the protective cap.

ADJUSTING AND SETTING THE GEAR OPERATOR'S OPEN TRAVEL LIMIT STOPS

1. Remove the protective cap from the left side of the gear operator.

2. Loosen the hex lock nut (counterclockwise).

3. Using an allen wrench, loosen the internal set screw approximately three turns (counterclockwise).

4. Turn the hand wheel in the counterclockwise direction to place the disc in the open position. The fully open position is achieved when the position indicator is approximately 90° from the correctly adjusted closed position.

5. Using an allen wrench, tighten the internal set screw (clockwise) until it contacts the internal quadrant gear.

6. Tighten the hex lock nut.

7. Check for proper valve operation by turning the hand wheel of the gear operator.

8. Replace the protective cap.