

# INDICATOR POST MODEL 2945A AND 2945 UL/FM INSTALLATION INSTRUCTIONS

CLOW VALVE COMPANY

**Installation** - The valve should be opened to the fully open position before proceeding with the Indicator Post installation.

## 1. Disassembly of the Indicator Post Unit

Telescoping Barrel Units

- Remove the Top Section from the end of the barrel.
- Loosen the two screws on the barrel and slide off the top of the standpipe.

Fixed Length Units

- Remove the Top Section from the end of the standpipe.

## 2. Base Flange Installation:

- Attach the base flange along with the standpipe to the valve plate using the four 5/8" bolts and nuts provided.

## 3. Grade Line Adjustments:

Telescoping Barrel Units

- Lower the barrel over the standpipe until the grade line mark on the barrel is at ground line height and then tighten the two screws securely.

Fixed Length Units

- Cut the required length off the bottom of the standpipe so that the indicated grade line of the standpipe is at the ground line height and then secure to the base flange by tightening the two screws.

## 4. Extension Rod Adjustments:

Lower the stem into the barrel/standpipe, placing the crane coupling over the valve operating nut.

It is necessary that the stem engage the operating nut a minimum of 2 inches, but not more than 5 inches.

To check for correct engagement, the end of the stem should be from 7 inches to 10 inches above the top of the standpipe (Fixed Length Units) or the top of the telescoping barrel.

## 5. Target (Open and Shut) Adjustments

Remove the target assembly from inside the body by rotating the operating nut counterclockwise.

Loosen the target retainer screws, but do not remove them.

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## 5. Cont'd

### Open Left Valves

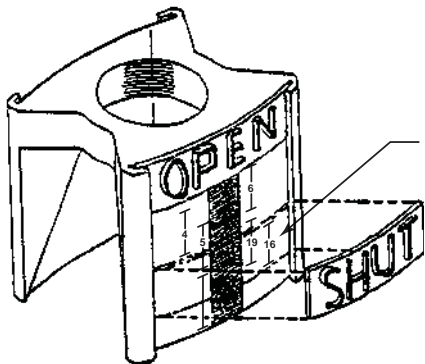
Move the OPEN target to the top of the plate.

Note: Position of the SHUT target can be determined by the following chart:

Valve Size	4"	6"	8"	10"	12"	14"
Gate Valve "A"	1"	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>13</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>8</sub> "	3"
RW Valve "A"	7/ <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "	1 <sup>11</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "	See Note (1)

Position the SHUT target as indicated below and tighten the retainer screws until snug. Avoid over tightening. Repeat the procedure for the other side.

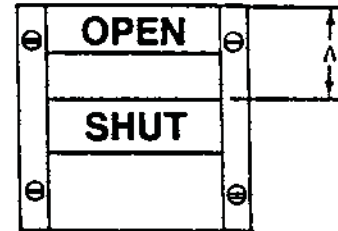
Note (1): Resilient Seat Gate Valves 14" and larger, require special target mechanism threads. Contact Clow Valve Engineering.



Valve size target location markings

Adjustment of target:

1. Grasp target at midpoint & pull out slightly.
2. Slide up or down to desired location & then release grip.



### Open Right Valves

The procedure is similar as for open left, but with two differences:

A: The open target is placed **below** the shut target.

B: The open target is placed at the very **bottom** of the plate.

The position of the shut target above the open target is then determined and set as described above.

### Maintenance

#### 1. Lubrication

Lubricate upper bearing area at least once per year, by applying several drops of light machine oil or food grade grease to the areas where the Operating Nut (P-2) contacts the Top Section (P-4).

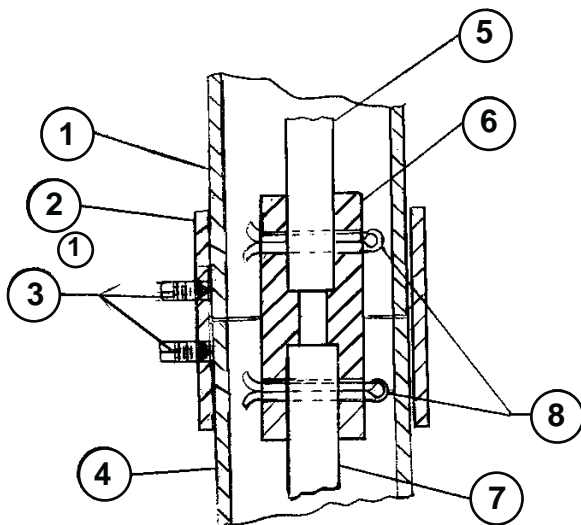
Access to this area is gained by removing the Locking Wrench (P-1) and lifting upward on the Operating Nut (P-2).

#### 2. Operation

The target mechanism will travel off the threads of the operating nut in both directions should the targets or target mechanism be positioned incorrectly. Should this happen, readjust targets. If the target mechanism falls from the operating nut, it will be stopped a short distance below the window.

## INSTRUCTIONS FOR EXTENDING A 2945A POST

Loosen the two 3/4" screws on top pipe section (near grade line at bottom of pipe). Pull apart the upper section from the lower pipe section. Place new extension coupling with new extension pipe over the existing lower pipe section. Tighten screws provided on the extension pipe and lower pipe (3/4" X 1" square head screw). Take existing stem and place the new extension stem with coupling on top of original stem. Drill through stem and coupling (pilot holes provided on one side) then pin together with pins provided (1/4" X 3" br. cotter keys). Place stem down the inside of new extension and lower pipe assembly aligning it on the 2" square nut on valve. At this time, remove top section (with operating nut assembly) from off the top of indicator post standpipe (two bolts). Place complete upper section over top of stem and align with the new extension pipe. Push together, adjust to desired height, and retighten the two 3/4" screws in top pipe section. Stem should be cut 7" - 10" above the pipe. Adjust open/shut plates per instructions and replace top section with stem nut (can also be extended at bottom end).



NO.	DESCRIPTION
1	Ductile Pipe (as reqd)
2	Extender Coupling
3	Set Screw 3/4 UNCX1"lg
4	Lower
5	Extension Stem
6	Ext. Stem Coupling
7	Existing Stem
8	Cotter Pin