

Replacing Tape on 7-S or 9-S Tank Gauges

- 1.) Unscrew frame and lid assembly that covers the viewing area from the gauge housing. Remove the gaskets and glass. Remove the finger that is screwed into the tape guide. Slide the tape behind the tape guide.
- 2.) Take a heavy rag and vise grip pliers to the top of the tank. Unscrew the 4 screws from the elbow cap that is on the 90° elbow assembly that is directly over the tank.
- 3.) Pull the tape toward the top of the tank and let the excess tape fall down into the tank.
- 4.) When resistance is felt from the counterweight assembly reaching the top of the gauge housing, wrap the heavy rag around the tape at the elbow assembly and secure with the vise grip pliers – DO NOT OVER TIGHTEN THE PLIERS TO CAUSE DAMAGE TO THE TAPE.
- 5.) Unscrew the 4 bolts at the bottom of the gauge housing.
- 6.) Unscrew the 8 bolts at the top of the gauge housing.
- 7.) Keep the top of the gauge housing still and pull bottom of gauge housing out away from the tank and let the top come down until the counterweight assembly is free from the gauge housing.
- 8.) Go back to the top of the tank and release the vise grip pliers from the tape and let the tape down slowly until the counterweight assembly is resting on the ground. Secure the tape again with the rag and vise grip pliers.
- 9.) Remove the cotter pin that is holding the tape clip to the counterweight assembly.
- 10.) Unwind tape until it is free and let lay flat on ground and avoid from letting tape curl up and kink.
- 11.) Go back on top of the tank and open manhole.
- 12.) Secure float and remove from tank.
- 13.) Remove the tape from the float by unscrewing the 2 screws on the tape clamp.
- 14.) Secure a piece of heavy string like chalk line to the end of the tape that was attached to the float. This string will be used later to install the new tape. From the ground, pull the tape out and let lay flat on the ground. Avoid letting the tape curl up and kink.
- 15.) If the gauge has been working properly and the readings have been correct, then lay the old tape next to the new tape and mark the new tape to the exact length of the old tape. Also, mark the new tape with a marker where the float had been secured to the old tape. Do not cut excess tape until final calibration is accurate.
- 16.) Install the new tape using the installation instructions supplied. Refer to step 14 on 7-S installation instructions.

*REFER TO STEP 14 ON 7-S
 INSTALLATION INSTRUCTIONS BEFORE
 STARTING*

START TAPE, CLIP END FIRST WITH
 NUMBERS ON TAPE FACING FRONT
 OF GAUGE HOUSING, AROUND LARGE
 BOTTOM PULLEY, UP TO LARGE TOP
 PULLEY, DOWN TO MEDIUM BOTTOM
 PULLEY, UP TO MEDIUM TOP PULLEY,
 DOWN TO SMALL BOTTOM PULLEY,
 UP TO SMALL TOP PULLEY AND THEN
 SECURE CLIP END OF TAPE WITH A
 COTTER PIN TO THE TOP OF THE
 BOTTOM PULLEY RACK (V-73)
 ASSEMBLY.

INSTALL THE TAPE WITH THE
 NUMBERS FACING OUT TOWARDS
 YOU FROM THE WINDOW OF THE
 HOUSING.

***BE CAREFUL NOT TO THREAD THE
 TAPE OVER THE BAR AT THE END OF
 THE PULLEY RACK. MUST PLACE THE
 TAPE ON THE PULLEY WHEEL.***

ENLARGED DETAIL SHOWING HOW TAPE IS WOUND
 ON PULLEY RACK ASSEMBLIES OF MOORMANN
 MODEL #7-S. THE MODEL #9-S GAUGE HAS PULLEY
 RACKS WITH 4 PULLEYS IN EACH PULLEY ACK AND
 SAME TAPE WINDING PRINCIPAL.

