

WATER LEVEL GAUGES

MODEL CA566 & CA567 (Replacement for U.S. Gauge A566)

Used to indicate depth of water in a well. Gauge and air line to well bottom are charged with air. The pressure required to permit air to escape from the end of the air line is a measure of the head of water above the end of the air line. The length of air line may be set on the adjustable dial to permit reading water level in feet below the ground surface.



SPECIFICATIONS

SIZE: 4-1/2"

CASE: Drawn Steel, Black corrosion resistant paint

RING: Slip, with side screws

WINDOW: Flat Glass

POINTER: Brass, black finish

Dial: Steel. White with black markings, rotating dial.

MOVEMENT: Brass

BOURDON TUBE: Phosphor bronze, soldered

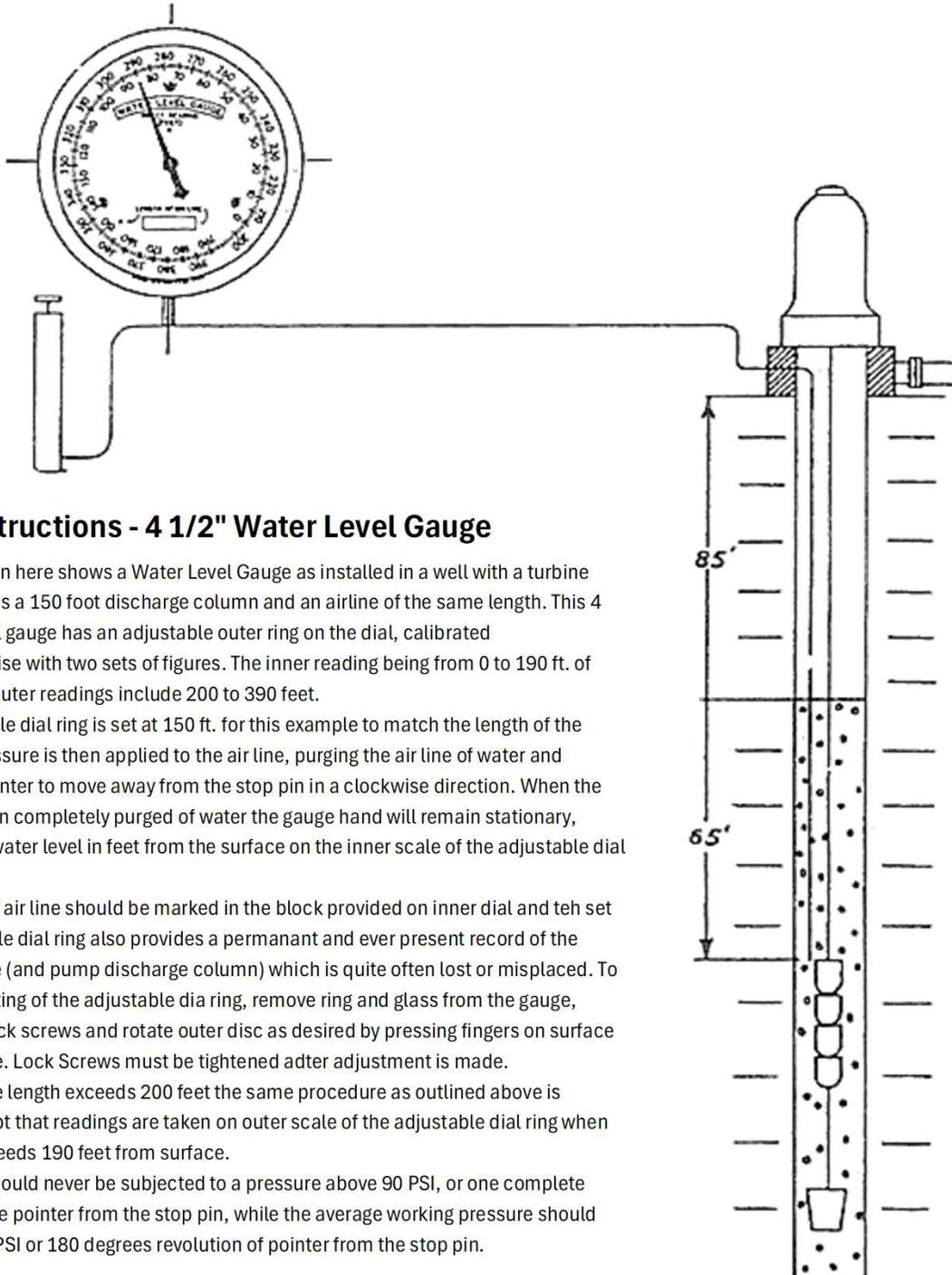
CONNECTION: 1/4" Male NPT. Bottom Connection, Brass

RANGE: CA566: 0-390 Ft. Water
CA567: 330 - 600 Ft. Water

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The Water Level Gauges is used to indicate the depth of water in a well. The gauge and air line to the base of the well are charged with air which, when compressed, transmits the pressure-head of the water to the gauge. It is designed with a movable dial that is adjustable for the length of air line to read the feet of water in the well. The adjustable outer ring has two scales calibrated counter-clockwise, to cover the entire range of the gauge as shown.



Instructions - 4 1/2" Water Level Gauge

The illustration here shows a Water Level Gauge as installed in a well with a turbine pump which has a 150 foot discharge column and an airline of the same length. This 4 1/2" water level gauge has an adjustable outer ring on the dial, calibrated counterclockwise with two sets of figures. The inner reading being from 0 to 190 ft. of water and the outer readings include 200 to 390 feet.

The adjustable dial ring is set at 150 ft. for this example to match the length of the airline. Air pressure is then applied to the air line, purging the air line of water and causing the pointer to move away from the stop pin in a clockwise direction. When the air line has been completely purged of water the gauge hand will remain stationary, indicating the water level in feet from the surface on the inner scale of the adjustable dial ring (85 ft.).

The length of air line should be marked in the block provided on inner dial and the setting of the adjustable dial ring also provides a permanent and ever present record of the length of airline (and pump discharge column) which is quite often lost or misplaced. To change the setting of the adjustable dial ring, remove ring and glass from the gauge, loosen three lock screws and rotate outer disc as desired by pressing fingers on surface near outer edge. Lock screws must be tightened after adjustment is made.

Where airline length exceeds 200 feet the same procedure as outlined above is followed, except that readings are taken on outer scale of the adjustable dial ring when water level exceeds 190 feet from surface.

The gauge should never be subjected to a pressure above 90 PSI, or one complete revolution of the pointer from the stop pin, while the average working pressure should not exceed 45 PSI or 180 degrees revolution of pointer from the stop pin.

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