

# Water Pressure Indicator

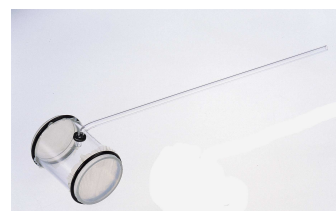
C15-5530-W0

## Instruction Manual

Learning about the water pressure without any experiment is difficult for students. The rubber film of the water pressure indicator can show its condition by depth of water and angle as a visual pattern. Students can easily understand about the property of water pressure without any electrical pressure sensors.

### [ Specification ]

Body:	Transparent acrylic plastic, $\phi 50 \times 70$ mm
L shape pipe:	Transparent acrylic plastic, $\phi 5 \times 300$ mm
O ring:	$\phi 45$ mm x 2 pieces
Replacement	Rubber film 2 pieces



### [ Procedures ]

1. Turn the head of water pressure indicator to horizontal position, and sink it into the water of a tank. You can observe the difference of dent degree of rubber film of the indicator by its depth (Fig1.)
  2. When you change its depth, the degree of dent changes depending by its depth in the water. Its dent of rubber film makes different by the depth because water presses the rubber film by depth. This is called "Water pressure".
  3. In case of same depth of indicator, the degree of dent will be the same.
  4. Turn the head of water pressure indicator to the vertical position, and sink it into the water of a tank. You can observe the difference of dent degree between top and bottom of rubber films at once. (Fig.2).
  5. You can easily understand that the difference of dents between top and bottom of rubber films shows the degree of water pressure in respective depth.
- \* The air in the indicator moves from inside to outside through the pipe by water pressure.

### [ Maintenance ]

When the rubber film deteriorates, the indicator does not work well. The old rubber film should be replaced by new one. Please replace it following below procedure.

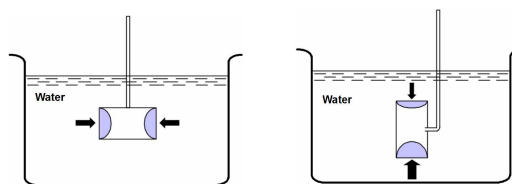


Fig. 1

Fig.2

1. Remove O ring and rubber film from the indicator.
2. Put a new rubber film on the rim of indicator.
3. Set and fix the O ring without stretching the rubber film.
4. After fixing the rubber film on one side, replace the other rubber film following the same steps (1 – 3).
5. After fixing the rubber films on both sides, the rubber tension should adjust into same one. Put the indicator into the water and check the degree of dent of both rubber films.
6. When the degree of dent is different between them, adjust the tension of rubber film by stretching it to show the same degree of dent as the other. Finally, cut the rubber film to fit the indicator.

**[NOTE]** To not make rubber film deteriorates faster, after use please make it dry by wiping and store it in dark, cool place.

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