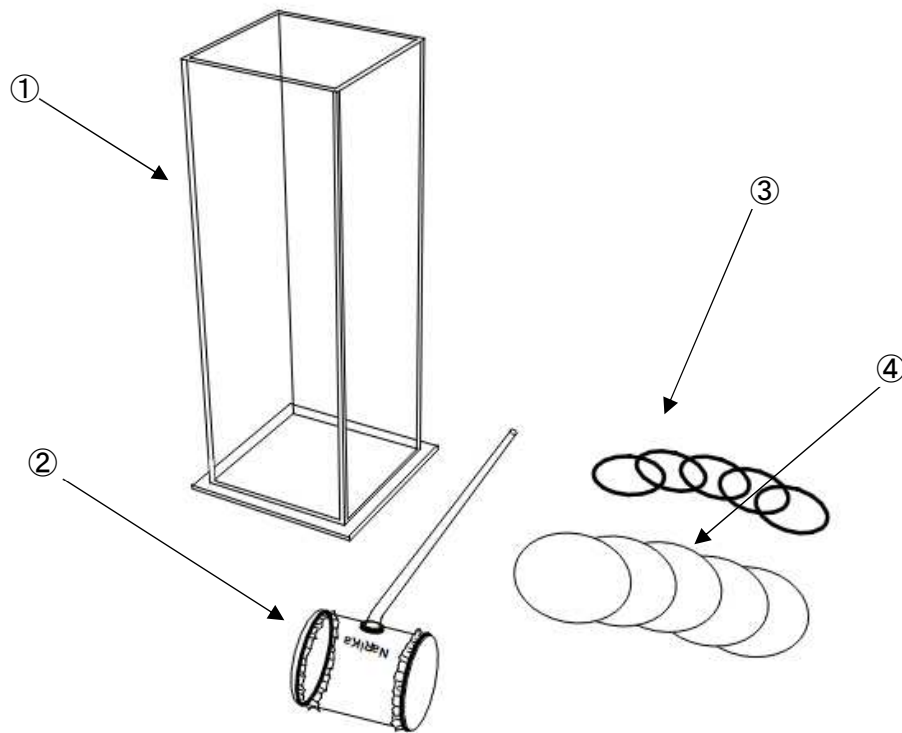


Water pressure experiment set

Cat. No.C15-5531-W0



Contents



- ① Water tank for water pressure experiment (C15-5550): 1 pc
Material: Acrylic resin Size: 100 x 100 x 300mm
- ② Water Pressure Indicator (C15-5530-W0): 1 pc
Body: Transparent acrylic plastic, $\phi 50$ x 70mm,
L shape tube: Transparent acrylic plastic, $\phi 5$ x 300mm
- ③ O ring: $\phi 45$ mm x 5 pieces
- ④ Replacement Rubber film ($\phi 90 \times t 0.07$ mm): 5 pieces

Introduction

This product sets a "Water Pressure Indicator" and a "Water tank." The indicator visualizes water pressure depending on the depth of water by showing its rubber film conditions and enables students to understand easily the property of water pressure without any pressure sensors.

How to use

1. Rotate the head of the water pressure indicator to a horizontal position and sink it into the water tank. Then, the rubber films dent. Record the phenomenon of the rubber film at this depth (see Fig.1).
2. Sink the indicator deeper than the beginning position. Check and record the phenomenon of the rubber film at this position (see Fig.2).

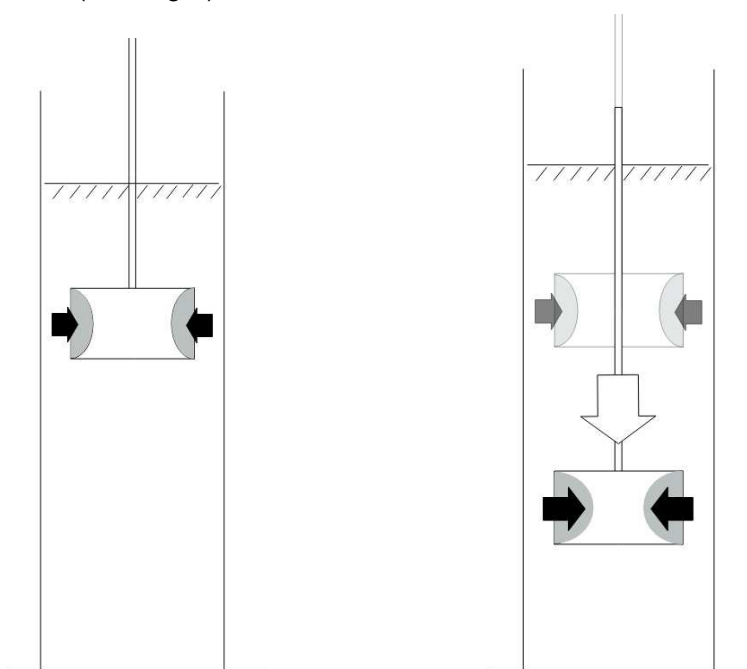


Fig.1

Fig.2

3. Rotate the head of the water pressure indicator to a vertical position and sink it into the water tank. Then, the rubber films dent. Record the phenomenon of the rubber film at this depth (see Fig.3).
4. Sink the indicator deeper than the beginning position. Check and record the phenomenon of the rubber film at this position (see Fig.4).

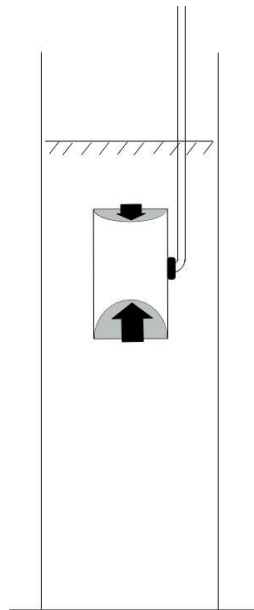


Fig.3

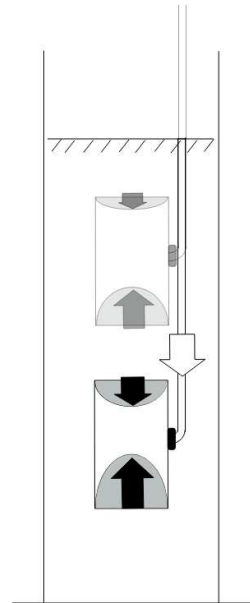


Fig.4

The indicator shows that the degree of dent of the rubber film increases depending on the depth of water. Discuss what causes this phenomenon (difference).

Maintenance

1. Replacement of the rubber films

The rubber films of the indicator should replace with new ones when the rubber films loosen their flexibility by gradually deteriorating with oxidation.

- 1) Remove O-rings and rubber films from the cylinder of the indicator.
- 2) Place a new rubber film on the cylinder and fix the film with an O-ring by stretching the film.

2. Cleaning and drying the rod of the indicator.

The rod's structure is a tube form to connect with the outside to keep atmospheric pressure inside the indicator. When you find water or dirt in the tube, remove, clean, and dry these contaminants.

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