


**kanasashi techno service**  
<http://kanasashi-tech.jp>

## History

- 1903 Kanasashi Shipbuilding Factory was established in Osaka.
- 1908 Plant was moved to Shimizu City in Shizuoka Prefecture.
- 1923 This country's first steel ocean fishing boat "Yojumaru" was built.
- 1976 Land machine operation division was established
- 1977 The sales of Earthquake-resistant Steel Water Tank was started.
- 1979 The sales of Earthquake-resistant Steel Drinkable Water System was started.
- 1999 Kanasashi Heavy Industries Co.,Ltd. was established.
- 2000 Water Tank installment reached 5000.
- 2007 Water Tank installment reached 7000.
- 2009 Steel Drinkable Water System installment reached 150.
- 2016 **KANASASHI TECHNO SERVICE**  
Business separation and Independence.

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Agency

**Earthquake-resistant  
 STEEL DRINKABLE WATER SYSTEM**  
 (Authorized by Fire Equipment and Safty Center of Japan)

STEEL DRINKABLE WATER SYSTEM


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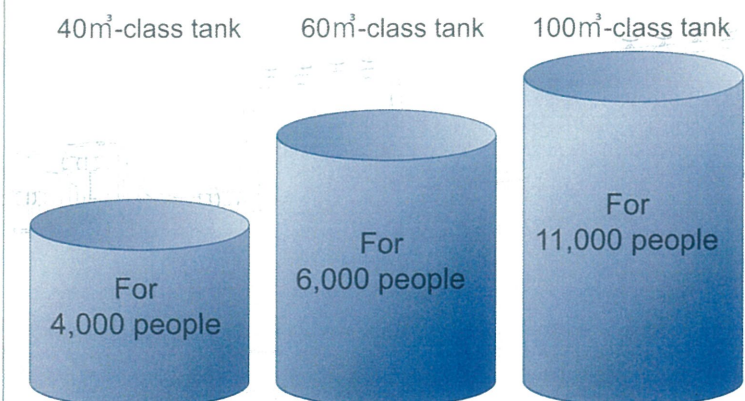
# Safe Water Anytime Supply

Disasters, such as big earthquakes, can cause serious damage to lifelines including water, gas, and electricity supplies. At the time of the Hanshin Awaji earthquake and the East Japan great earthquake, burst water pipes suspended the water supply, and reservation of drinking water was very difficult. Drinking water is essential to our lives and safety. How quickly we can supply safe drinking water has become an important issue in a local disaster prevention.

## Always Reserve Fresh Water

The amount of water necessary daily for keeping the life of a citizen is 3R in an emergency. Our 100m<sup>3</sup> tank can supply water for 3 days to 11,000 people, 40m<sup>3</sup> to 4,000 people, and 60m<sup>3</sup> to 6,000 people.

The importance of drinking water has a new appreciation for the time of a disaster.



The amount of water that can be supplied for 3 days



A person needs 3R of water /day

### 1 The characteristic of water flow

Circulation of the internal water is absolutely necessary for reserving fresh water. Our company conducted model experiments with Tokai University over three years and selected the best forms and arrangements of the inflow and outflow pipes for drinking water. We confirmed that the tank water can be replaced almost 100% by the time the accumulated running water reaches 3 times of the tank capacity.

### 2 Ideal Dual Structure

The dual structure is an ideal design for resisting both external pressure from earthquakes and the internal pressure of tap water. (It is designed to endure violent and severe earthquakes up to Japanese scale magnitude 7.)

### 3 Complete Welding Structure

We have an advanced welding technology cultivated in the shipbuilding business. Our complete welding structure allows no leaks.

### 4 Light Concrete Blocks of Steel Segments

Our tanks are suitable even for a narrow places and can be constructed anywhere. We investigate conditions, including passageways, soil property, spring water, or heavy industrial machines in use. In general, the construction is done without placing a sheet pile.

### 5 Epoxy Resin for Inside Paint

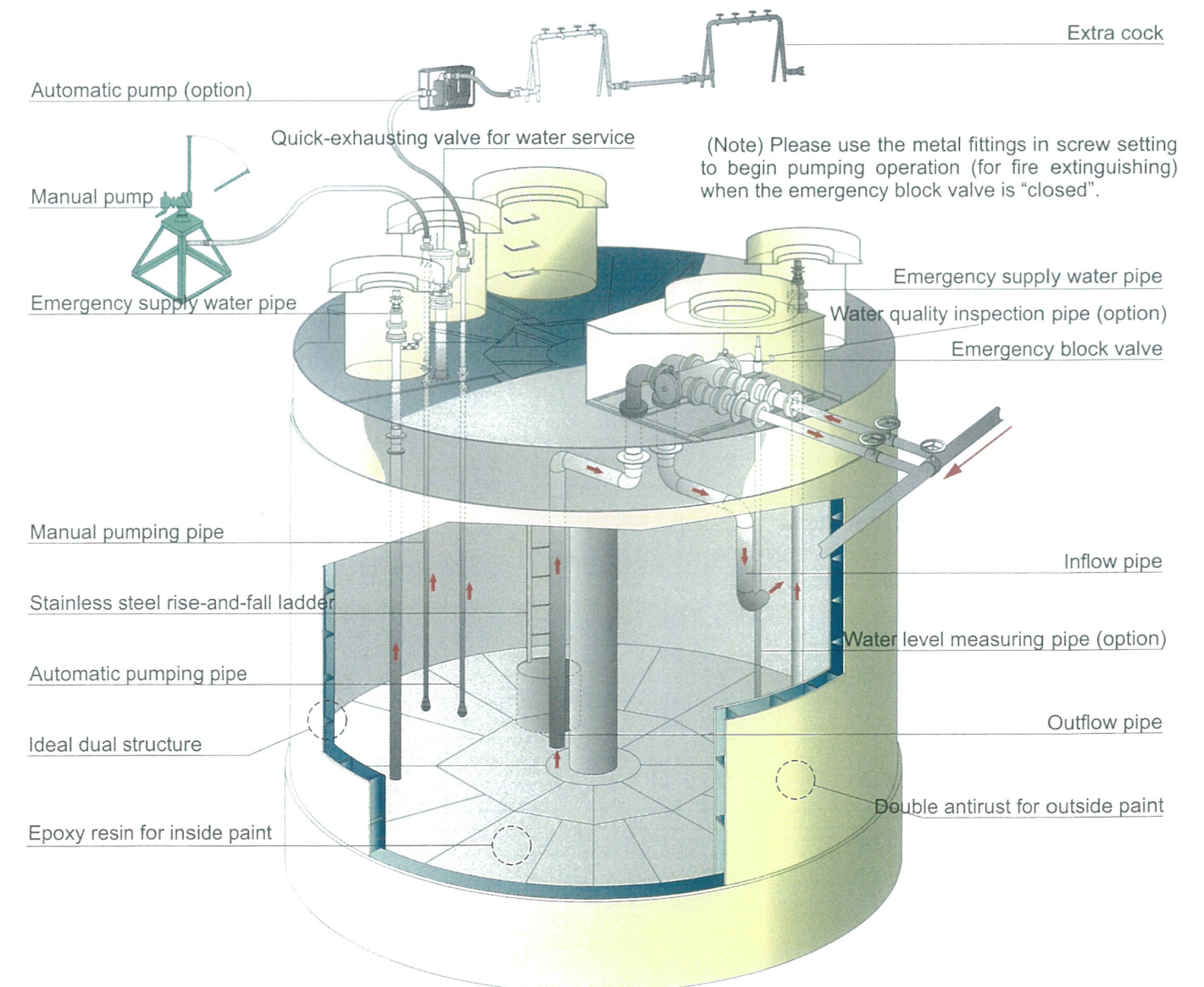
We use the paint authorized by JWVA, which is the most suitable for drinking water. The paint has strong adhesion and excellent earthquake resistance, and the water is safe to drink.

### 6 Double Antirust for Outside Paint

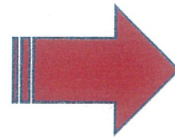
We take all possible measures, such as using non tar epoxy resin that is excellent in antirust, and using the electric-free magnesium stick equipment.

## Dual structure for earthquake-proofing and resisting pressure

This water tank aims at securing emergent drinking water and water supply for fire-fighting at the time of a seismic hazard. This steel product has a complete welding dual structure which efficiently employs shipbuilding technology to make it earthquake-proof as well as excellent in resisting pressure and elasticity.



# When an earthquake occurs and the water supply pipe breaks, your home water will stop!



Water requires  
**3 liters**  
per person per day

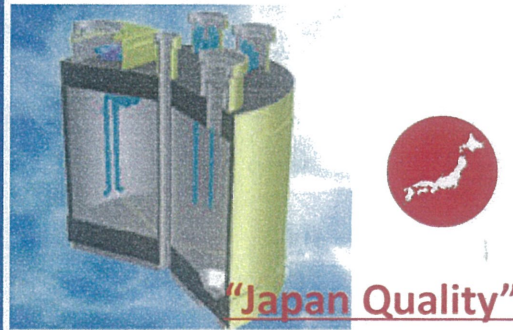


## “Anytime Supply Safe Water”

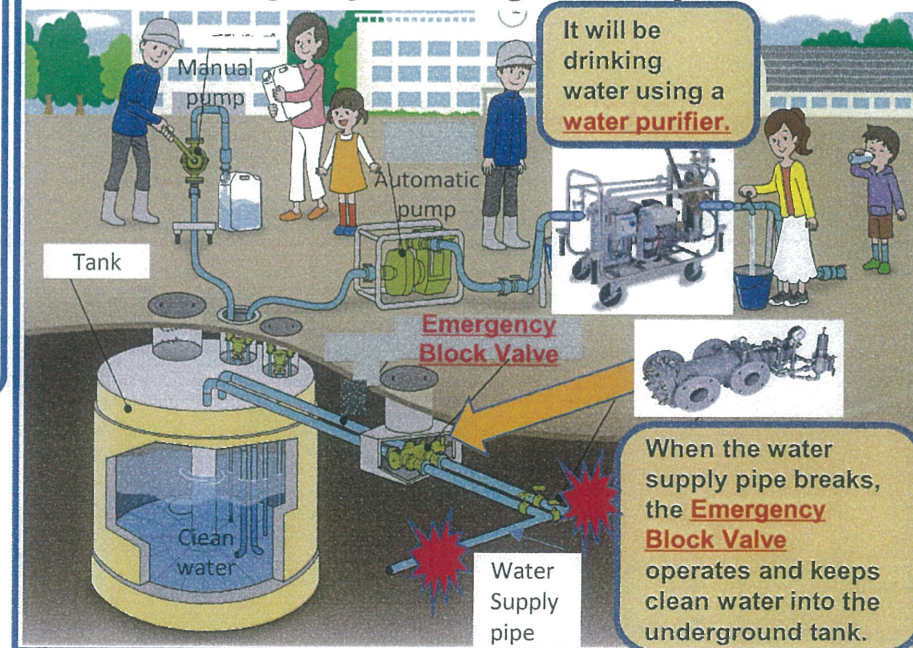
It is safety if you have an Emergency Drinking Water Tank in your residential area.  
This tank keep clean water when emergency and can be used as water for extinguisher under normal condition.  
Suppress floating due to liquefaction.

**Safe Water can Save Your Life!**

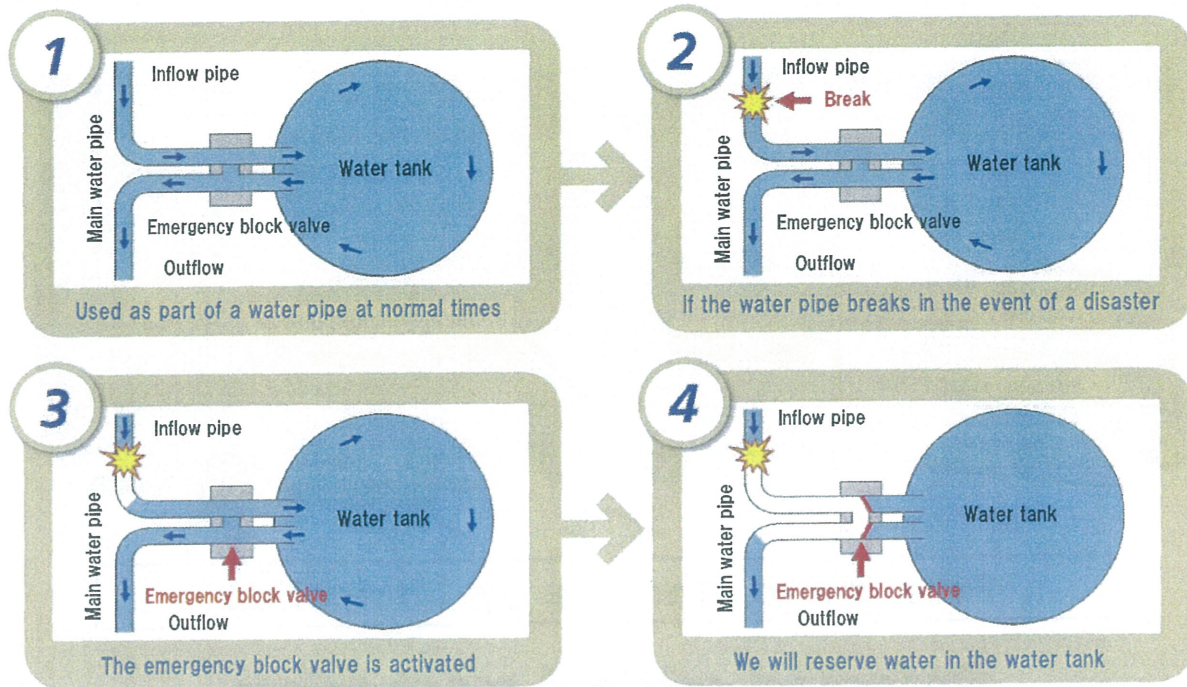
### Emergency Drinking Water Tank “Earthquake Resistance”



### Emergency Drinking Water System



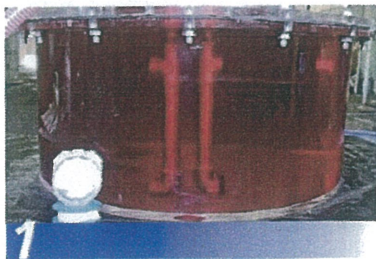
# Mechanism of water tank to keep fresh



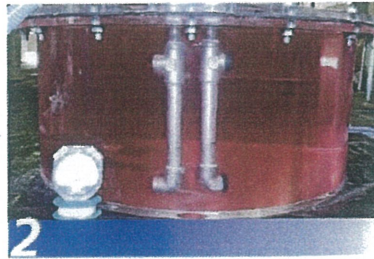
# Check the circulation of water in the model

## Status of model experiment

Produced acrylic model on 1/10 scale of actual machine. I will pass water as well as water supply.



Fill the colored water with edible crimson and start the experiment. I will let clear water flow.



The transparency of water increased and the piping inside the reservoir became visible. We devise the piping shape and improve circulation performance.

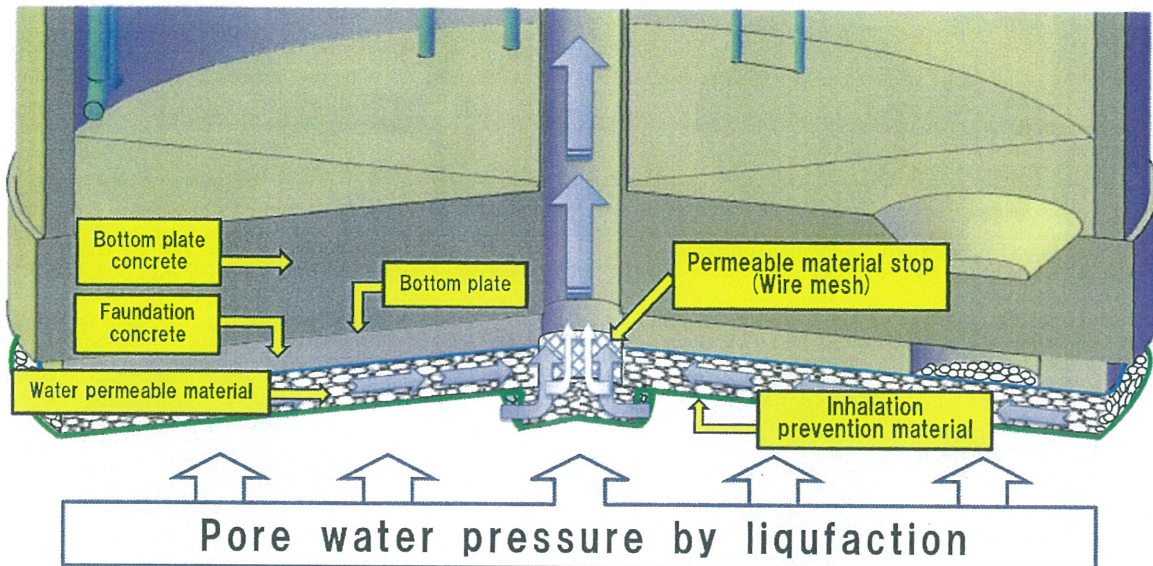


It became almost transparent. Keep a clean state in which the interior of the water is replaced.



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# 【 SAND MAGIC<sup>®</sup> 】



Patented original mechanism

「Tank floating suppression structure during liquefaction」



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