

HITROL CO., LTD.

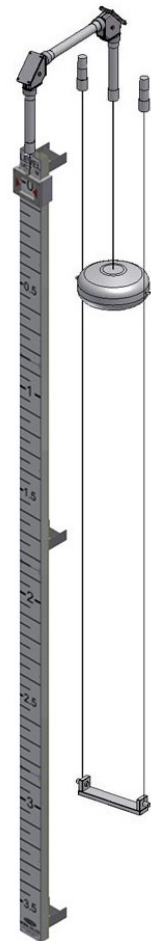
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CATALOGUE

TANK LEVEL GAUGE

HFW-100W Series



Doc. no. : HFW-100W_E_Rev.0

Issue date : 2025. 06

Overview

The *HFW-100W Series* is a target type tank level gauge used to measure and instruct the level of large tanks in various industrial facilities, including oil, petrochemicals, food, chemicals, water treatment facilities and power plant, using the weight balance of float and weight. It is mostly used, particularly, in checking storage, maintaining constant water levels, and measuring certain amounts of liquids in batch processes.

- Oil refining: Crude Oil, Gasoline, Heavy Oil, Lamp Oil, Naphtha, Organic Oil, Inorganic Oil, Asphalt Pitch, Sulfur
- Petrochemicals: Benzol, Toluene, Xylene, Methanol, Ethanol
- Dam: Water Gauge, Gate Opening Indicator, etc.
- Food: Beer, Liquor, Soy Sauce, Molasses, Mayonnaise
- Chemicals: Paint, Caustic Soda, Hydrochloric Acid, Sulfuric Acid
- Power Plant: Heavy Oil, Water Tank, Distillation tank
- Water Treatment: Waterworks and sewage facilities, waste water, drinking water, Elevated Water Storage Tank

Characteristics

- Simplified design with high durability
- Easy calibration

Operating Principle

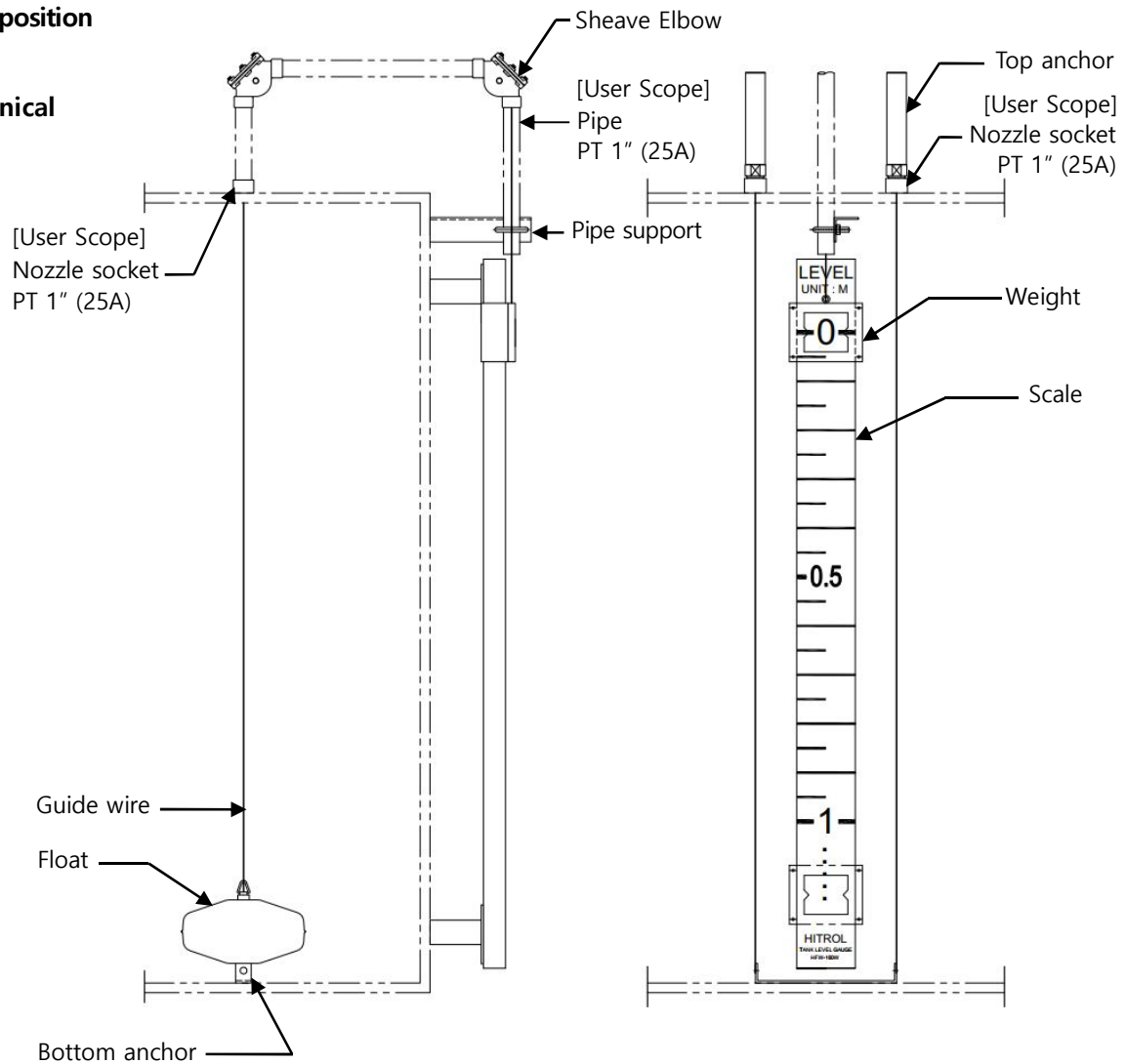
The float on the liquid surface in the tank floats at the point where the weight of the float, the buoyancy of the float and the weight maintain their equilibrium. If the water level rises or falls, the level scale indicated by the weight becomes the measurement level when the force of the rise or fall due to the buoyancy variation of the float is balanced with the weight.

Specifications

Product	HFW-100W
Installation	Side Mounting
Measuring Range	Std. 1.5m
Measuring Unit	Meter
Ambient Temperature	-20°C ~ 80°C
Fluid Temperature	Max. 150°C
Operation Pressure	ATM
Minimum Scale	50mm (Std.)
Process Conn. Size	Screw Type: PT 1"(F) Socket (Std.)

Product ■ HFW-100W

**Composition
and
Technical
Data**

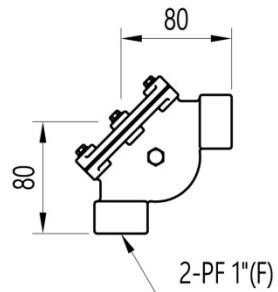


■ Part Name and Dimensions

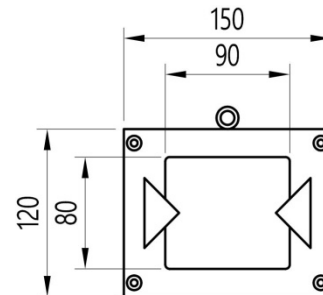
The dimensions on the following pages are indicated in [mm]

[Part]

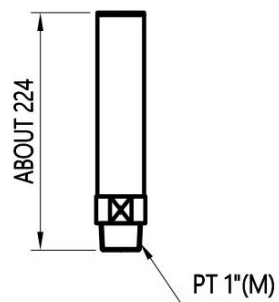
Sheave elbow (AL)



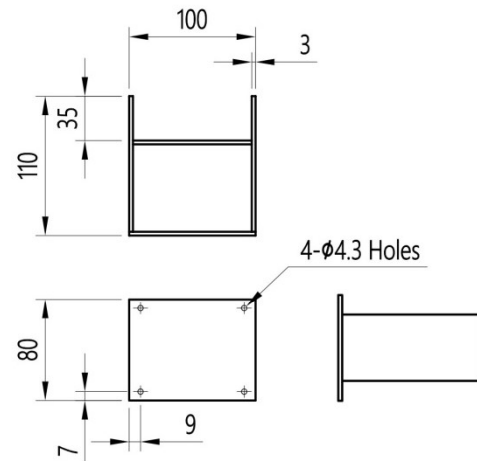
Weight (C.S+AL)



Top anchor

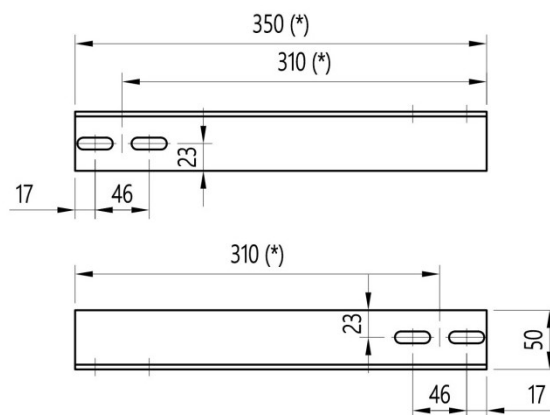


Bracket

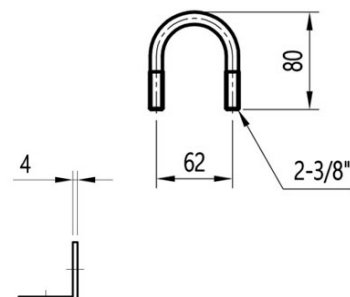


Pipe support

* CUT ACCORDING TO FIELD CONDITIONS.

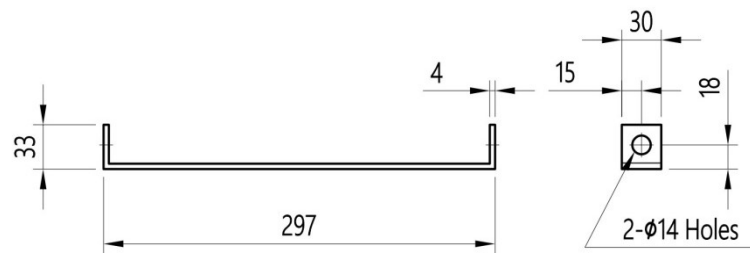


U-bolt

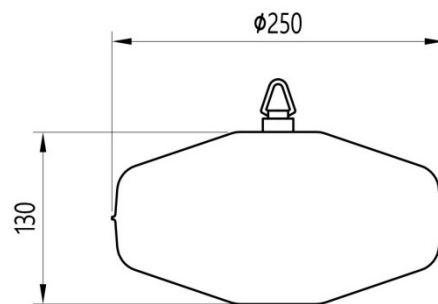


Some tolerances may occur with actual products.

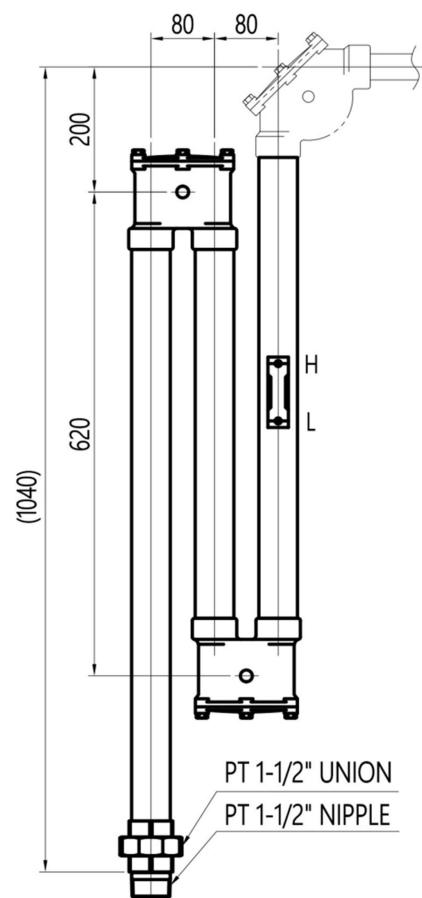
Bottom anchor



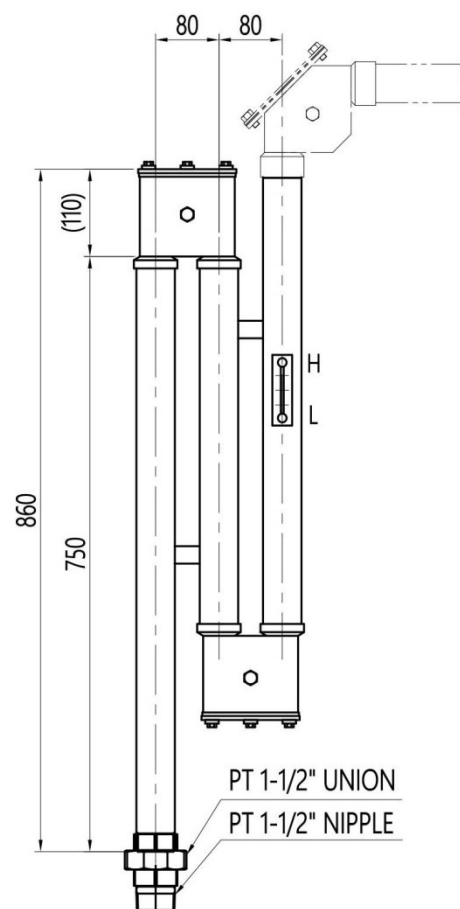
Float



U-seal pot (CS+AL)



U-seal pot (SUS)



Some tolerances may occur with actual products.

**Warranty
and
Contact**

■ Warranty and Service

This product is subject to the warranty for 2 years of shipment and unpaid service will be provided for any damage found under normal operating conditions. If it is not about the failure of product, the service charge will be payable.

You can request A/S at our website or by contacting our headquarters.

■ Headquarters . Factory . Laboratory Contact Number

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