

1.1.1 Installation of a hull unit



Verify the following conditions and also (instructions of installation manual) in deciding the T20 tank mounting site.
Fully discuss about the strength with the shipowner and the installer before determining on the position and the method of installation and necessary materials.

1.1.2 Installation location of hull unit

- (1) Select a location the least influenced from an obstacle, interference or noise.
- Install the hull unit on the hull within the range of 1/3 to 1/2 of the overall length from the bow.
- Alternatively, install the unit so that the center of T20 tank positions within 1 m from the center of the hull.
- Install the unit so that the T-Frame comes above the draft of hull unit.



Fig. 1.10 Installation location of hull unit

- Be sure there are no obstacles to interfere the subsequent layout when the Transducer unit is removed.
- Provide sufficient clearance around the T20 tank to make maintenance and inspection work.
- The bow mark (B) on the hull unit flange should be installed facing the bow of the vessel. However, if there may be any interference or maintenance or inspection works, install the unit to face 180° reverse direction (bow direction).

1.1.2 Installation conditions for a T20 tank

- (1) The T20 tank should be installed satisfying the following conditions.
- Install the T20 tank on the hull within the range of 1/3 to 1/2 of the overall length from the bow. Alternatively install the unit so that the center of the T20 tank positions within 1m from the center of the hull.

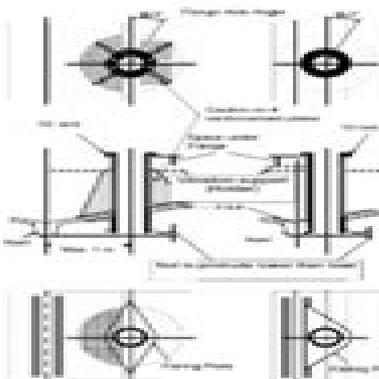


Fig. 1.11 Installation of T20 tank



Fully discuss about the strength and waterproofness with the shipowner, fully discuss about the strength with the installer and the installer before determining on the position and the method of installation and necessary materials.

1.1.2 Maintenance space for T20 tank

- (1) When installing the T20 tank, the hull structure to be installed to the hull (strength, waterproofness, etc.) and, at the same time, measure a space for maintenance and inspection.
- Space the hull unit to not obstructed structures, keep it away from water drops and vibration.
- When K20-4000000 is adopted from the factory with a standard, the length of the T20 tank and T20 shaft are set as follows.
 - T20 tank: 1030 mm (Standard)
 - T20 shaft: 1470 mm (Standard)
- When standard T20 tank is installed with shortened length, the T20 shaft length should be processed as below.

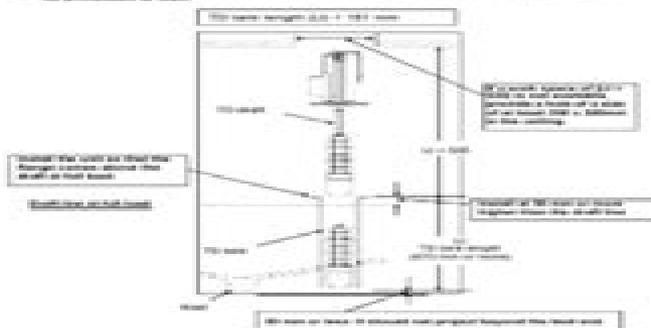
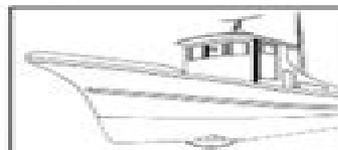
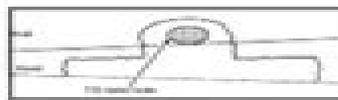


Fig. 1.12 Installation of T20 tank

1.1.4 Example of installation of the T20 tank



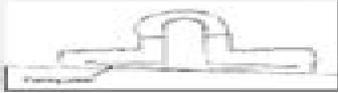
- The position to install the T20 tank. (Refer to page 1-4).



- Open a hole of the hull. (Minimum size of the T20 tank along the hull of the hull).



- Install the T20 tank into the hull. The T-frame surface of the T20 tank should stay level during lowered state.



- Make the surrounding of the T20 tank projecting out from the bottom in a diamond shape and provide a ferrule plate for equipment water resistance and generation of an obstacle to the intrusion.

Fig. 1.13 Example of T20 tank installation - 2

Bb Installation Guide

AW Rasmussen



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