



**SEI**  
INDUSTRIES

***HELITANK***  
**OPERATIONS**  
**MANUAL**

*2007 VERSION A*

---

## **HELITANK OPERATIONS MANUAL - Version A**

**Issue Date: DECEMBER 2007**

**PLEASE READ BEFORE USING.**

### **SEI INDUSTRIES LTD.**

7400 Wilson Avenue  
Delta, B.C. Canada  
V4G 1E5

Phone: (604) 946-3131

Fax: (604) 940-9566

E-Mail: [seisales@sei-ind.com](mailto:seisales@sei-ind.com)

Website: [www.sei-ind.com](http://www.sei-ind.com)

COPYRIGHT © 2007 SEI INDUSTRIES LTD. ALL RIGHTS RESERVED  
PRINTED IN CANADA



**We Engineer Solutions**

**Helitank Operations Manual** (Version A)

---

# Table of Contents

|  |   |
|--|---|
| Section 1: Introduction                          | 1 |
| Introduction to the Potable Water Helitank ..... | 1 |
| Section 2: Safety Precautions                    | 2 |
| Pre-Flight Safety Check .....                    | 2 |
| Section 3: Filling and Discharge Operations      | 3 |
| Filling Procedure .....                          | 3 |
| Discharge Procedure.....                         | 4 |
| Section 4: Landing the Tank                      | 5 |
| Landing Procedure .....                          | 5 |
| Section 5: Cleaning and Storage                  | 6 |
| Cleaning and Storage Instructions .....          | 6 |
| Section 6: Folding Instructions                  | 7 |
| Folding Procedure .....                          | 7 |

## Section 1: Introduction

### Introduction to the Potable Water Helitank

This manual provides helicopter operators with information on the operation and maintenance of the potable water Helitank.

The operation of the Helitank can be quickly mastered by operators with no prior experience and the Helitank requires no pre-assembly. Once airborne, the operator can easily become familiar with the flight characteristics of the Helitank. Several trips with a filled Helitank will give the operator enough experience to handle the unit.

For your own protection and for longer tank life of the tank, please read this manual prior to flying the Helitank to familiarize yourself with filling and positioning the unit. Ignoring any warnings in this manual could result in personal injury or damage to the Helitank/aircraft.

SEI Industries Ltd. offers a complete parts supply and repair facility for Helitanks. When ordering parts, please provide the model number of your Helitank.

Additional copies of this manual are available from SEI Industries or your local SEI dealer.

## Section 2: Safety Precautions

### Pre-Flight Safety Check

#### Warning

The Helitank should not be flown empty. Remove the tank from the cargo hook and store inside the helicopter until it is filled.

Just as a pilot preflights an aircraft, the Helitank should also receive a preflight inspection each day. Please use the checklist below.

1. Un-wrap the Helitank and deploy the lifting straps.
2. Make sure the lifting ring is securely attached to the helicopter cargo hook.



3. Check that all loose pieces of webbing have been removed.
4. Check to see if the filler cap is secured to the flange.

## Section 3: Filling and Discharge Operations

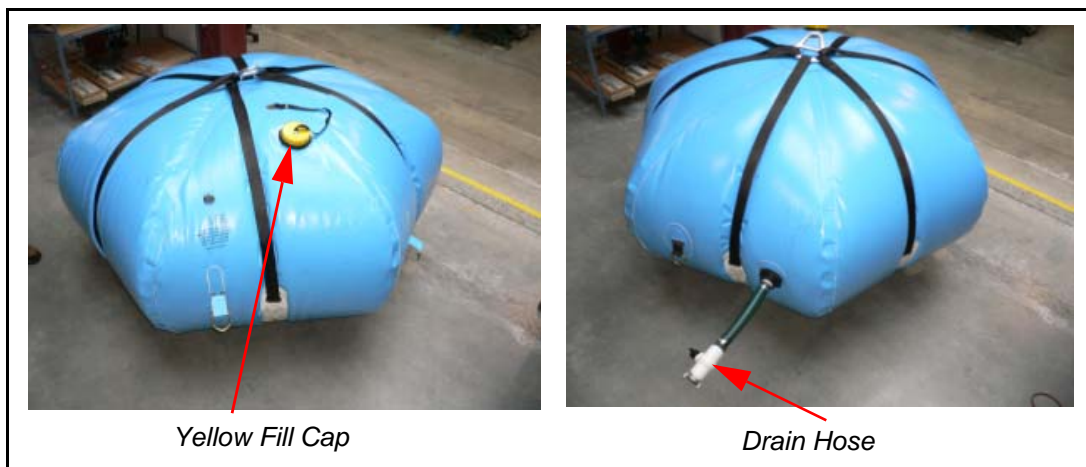
### Filling Procedure

#### Caution

It is recommended that you use a metered pump to fill the Helitank as this is the only way to know that what you have pumped into the Helitank can be carried by the helicopter being used. If there is a discrepancy between the stated capacity and the actual capacity of the Helitank, never overfill the Helitank. The maximum weight capacity of the helicopter must never be exceeded.

The Helitank can be filled through its yellow filler cap or the bottom drain hose.

- If you are filling from the yellow filler cap (top inlet), then this cap must be removed and the bottom valve closed.
- You can also choose to fill through the bottom drain hose (outlet hose assembly). In this case, fill the tank from the bottom until the water flows out the top flange.
- Now, close the bottom drain hose valve and replace the yellow cap.



The Helitank is now ready to transport to the location where the water is to be discharged.

***Discharge Procedure***

Once the Helitank has been landed (see *Section 4* for landing procedure), the water can be discharged from the outlet hose assembly.

After directing the outlet hose assembly to the location where you wish to discharge, open the ball valve. There is no need to remove the fill cap.

The Helitank should be flown in accordance with United States Forest Service recommendations for helicopters, other than tandem rotor, to a maximum 80 KIAS while conducting external cargo hook operations.

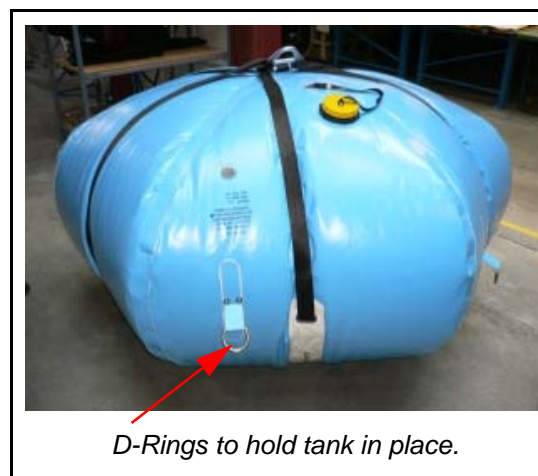
**Important Note**

It's recommended that helicopter speed is gained slowly as this allows you to determine a safe maximum speed for the prevailing conditions.

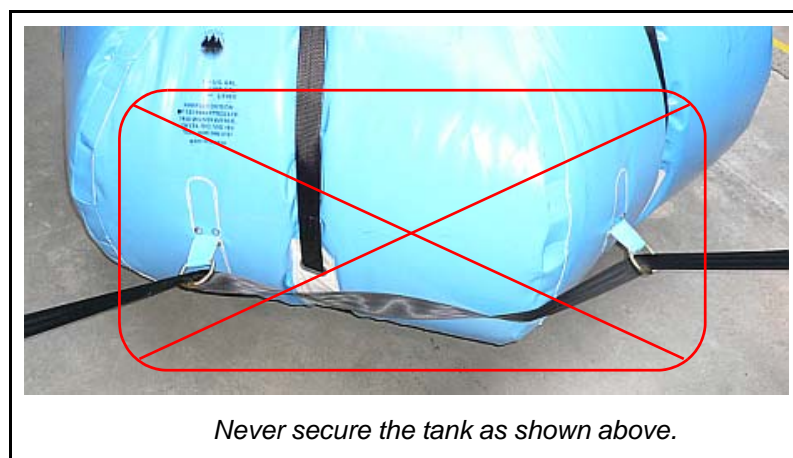
## Section 4: Landing the Tank

### Landing Procedure

Always place the Helitank with the drain hose at the lowest point as this will allow you to drain all the water. Whenever possible the Helitank should be placed in an area with less than five degrees of slope. If it has to be placed on a slope greater than five degrees, it is recommended that you use at least two webbing straps or ropes attached to at least two D-rings and tied to a large rock or tree.



Never tie the two D-rings together (as shown in the picture below). Always go from one D-ring to a rock or tree and then back to the second D-ring.





## Section 5: Cleaning and Storage

### Cleaning and Storage Instructions

It is recommended that you follow these guidelines to ensure the longevity of your Helitank.

- When in storage, do not place heavy objects on the Helitank as this can cause fabric failure from sharp objects, creases or punctures which may cause leaking.
- Wash the tank with a mild detergent and rinse prior to storing.
- Always dry the tank before storage to eliminate mildew or bacteria growth.

Drying can be accomplished by moving the tank to a warm dry area and filling it with air. Rotate the tank by hanging it from a D-ring with the drain hose at the low point. After approximately one hour, open the drain valve and drain the water, leaving it hanging until no sign of water is present. Fold the tank as outlined in *Section 6: Folding Instructions* and place it in a dry storage area.

# Section 6: Folding Instructions

## Folding Procedure





Step 5



Step 6



Step 7



Step 8



Step 9



Step 10

