

Version: February, 2015

**MANUAL**

**AND**

**OPERATING INSTRUCTIONS**

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## 1. Introduction

Thank you for choosing our product *Poollift Delphin*. The Poollift serves as a valuable support for entering and exiting a swimming pool. It enables disabled persons or wheelchair users to refresh themselves or e.g. to perform medicative water aerobics.

Your Poollift has been developed and constructed by experienced professionals and therefore its functionality is ensured.

Please read this manual carefully before using the Poollift.

## 2. Technical Specifications

### Description

The *Poollift Delphin* is powered by water pressure.

The required water pressure at a load of 85 kg is 0,3 Mpa. For a maximum load of 120 kg it is necessary to have a water pressure of min. 0,4 MPa. In most homes the water pump provides the necessary amount of 0,4 MPa.

The fastening of the Poollift is suitable for different types of swimming pools.

The Poollift is delivered with a recessed or a screwed panel. Both options can be accomplished with an extended C-tube, if the distance between the edge of the pool and the fastening point of the panel is wider than 350 mm.

The seat rotates automatically 90° to the entry and the exit point.

The operating lever on the entry level as well as on the exit level (in the water) ensures that the access and the exit is possible without any further help by another person

### Used materials

- Stainless steel AISI 316L V4A (cylinder, tube, pillars, sockets, outlet)
- Polypropylen (seat)
- Rubber (seat)

### 3. Installation Instructions

#### Fastening possibilities

##### **Recessed panel**

A drill-hole with a diameter of at least 120 mm and a depth of 160 mm has to be executed. Concrete or a appropriate glue ought to be used for the fastening. Ensure that the panel is fixed vertically and that the upper edge is on one level with the floor before gluing.

If the Poollift has to be dismantled before winter (e.g. outdoor installation), it is possible to blind the hole in the floor with a screw cap.

##### **Screwed panel**

Six small drill-holes have to be executed for that kind of panel. Heavy duty anchors or dowels should be used for the fastening.

If the Poollift has to be dismantled, it is possible to simply unscrew the panel.

#### Setting up

A minimum water depth of 1050 mm is necessary. Furthermore it is important to ensure, that the entry point is easily accessible for users and that also a water supply has to be possible.

When using a standard C-tube, the center of the panel should be at least 130 mm to max. 350 mm away from the edge of the pool. If the distance of 350 mm is exceeded it is possible to use an extended C-tube (special order).

#### Installation



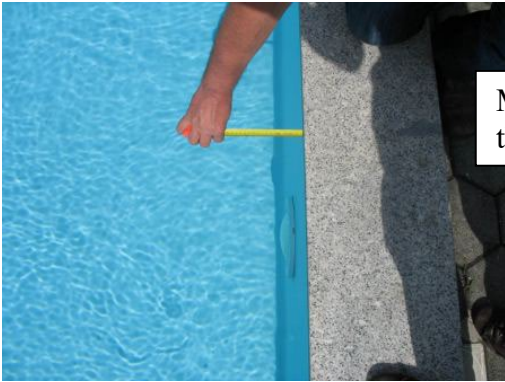
Measuring out the place where the panel will be

##### **Recessed panel:**

Execution of a core hole (diameter at least 120 mm) and then gluing the sleeve (see picture)

##### **Screwed Konsole:**

Screwing the panel with 6 screws on the floor



Measuring out the overhanging of the pool edge



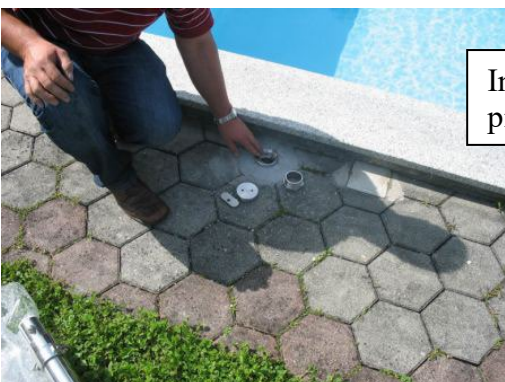
Setting of the overhanging of the pool edge on the spacer



Removal of the screws to fasten the C-tube



Applying the C-tube and screwing it together



Inserting the safety ring (see first picture) into the panel





Placing the Poollift at the pool edge



Implementing the additional pillar and screwing it to the panel using the union nut



Attaching the water hose



Unhooking the Poollift lock (if needed)



Mounting the seat into the provided holder



Tightening the seat bracket (seat height is adjustable)



Checking the immersion depth (lower landing)  
and entry height (upper landing)

#### **4. Start-up Operation**

1. After installing the Poollift please check if all screw connections are tightened.
2. Open the water supply line to let the air escape from the pressure water hose. Then shut the water supply again.
3. Move the operating lever upwards and push the cylinder downwards to let the air escape from the cylinder.
4. Connect the pressure water hose to the valve. Always use drinking water for the operation and never water from the pool!
5. Adjust the entry height according to the customer's request.

#### **Locking (lock)**

The Poollift can be bolted and locked if it is in the upper landing. That way it is protected against unauthorized use.

ATTENTION!

The Poollift must be unlocked before it can be moved!

#### **Carriage**

There are transport wheels optionally at one's disposal.



## 5. Operating

The operating lever on the entry level as well as on the exit level (in the water) ensures that the access and the exit is possible without any further help by another person.

The movement direction is controlled by the 3-way-valve. To go upwards you have to pull the operating lever down and if you want to go downwards you have pull the operating lever up. Particular parts are shown in the attachment „Mechanical scheme“.



Picture 1: 3-way-valve

## 6. Diagnostics

Poollift holders can check their installation for flaws on their own accord with the help of the following points. Apart from that they can contact the service company if malfunctions occur. By no means it is allowed to manipulate, change or remove any components of the installation.

### **The Poollift does not move (or too slow) upwards?**

#### **Check:**

- The pressure water supply must be opened and the pressure water hose must be flawless
- The valve must be in the end position (turned down)
- Appropriate water pressure is necessary.
- There must not be any defect on the seal of the cylinder

### **The Poollift does not move (or too slow) downwards?**

#### **Check:**

- The drain hose must be in good condition.
- The valve must be in the end position (turned up)
- There must not be any defect on the seal of the cylinder

## 7. Cleansing and Maintenance

The Poollift is very easy to clean. The installation has to be cleaned from eventual organic and inorganic sediments regularly. Appropriate care ensures a problem-free operation over the long term.

Please check all screw connections regularly and tighten loose screws.

The Poollift uses drinking water as a lubricant, that is why it is not necessary to lubricate the installation.

If the Poollift is out of service for extended periods of time (e.g. in winter), it is recommended to damp the seal of the cylinder before it is commissioned again.

Don't keep the Poollift outside during winter, because remaining water in the cylinder could damage the installation. Separate the pressure water hose from the Poollift after dismantling and turn the operating lever in the upper position.

Afterwards push the cylinder in the upper and the lower position until the whole amount of the water inside the cylinder has leaked out. After draining the cylinder keep the cylinder in the upper position. If necessary close the Poollift in that position using the lock.

It is absolutely required to maintain your Poollift regularly.

How to replace the seals and pistons is described in the document „Instructions for seal- and piston-replacement“.

## **8. Packaging, Delivery and Storage**

In some cases the Poollift will be delivered disassembled in two wooden boxes.

The assemblage is carried out on the spot.

Please protect the Poollift from falling down, overturning and intense vibrations during the transport.

Store the Poollift in a dry, clean and dust-free interior at temperatures between 5° and 40°C and a humidity of max. 80%.

The Poollift must not be exposed to the effects of chemicals!

## **9. Attachments**

### **Attachment 1**

**List of parts**

### **Attachment 2**

**Mechanical scheme**

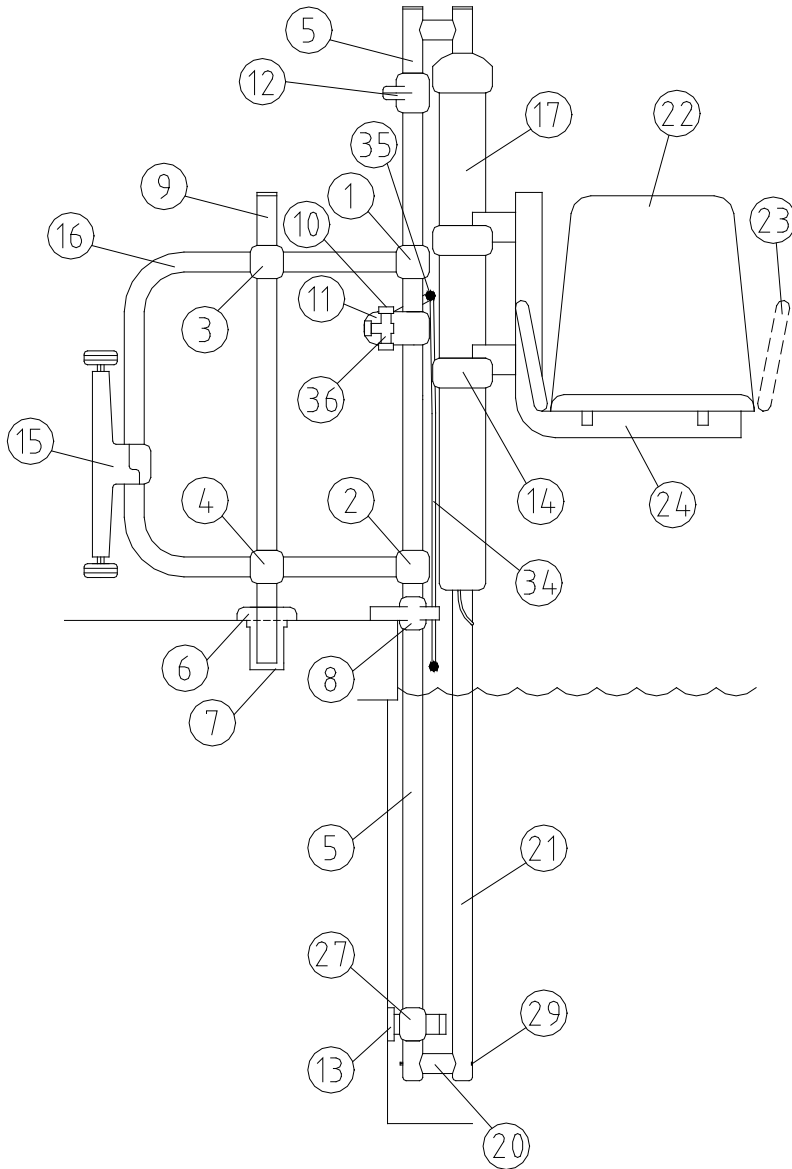
### **Attachment 3**

**Instruction for seal- and piston-replacement**

### **Attachment 4**

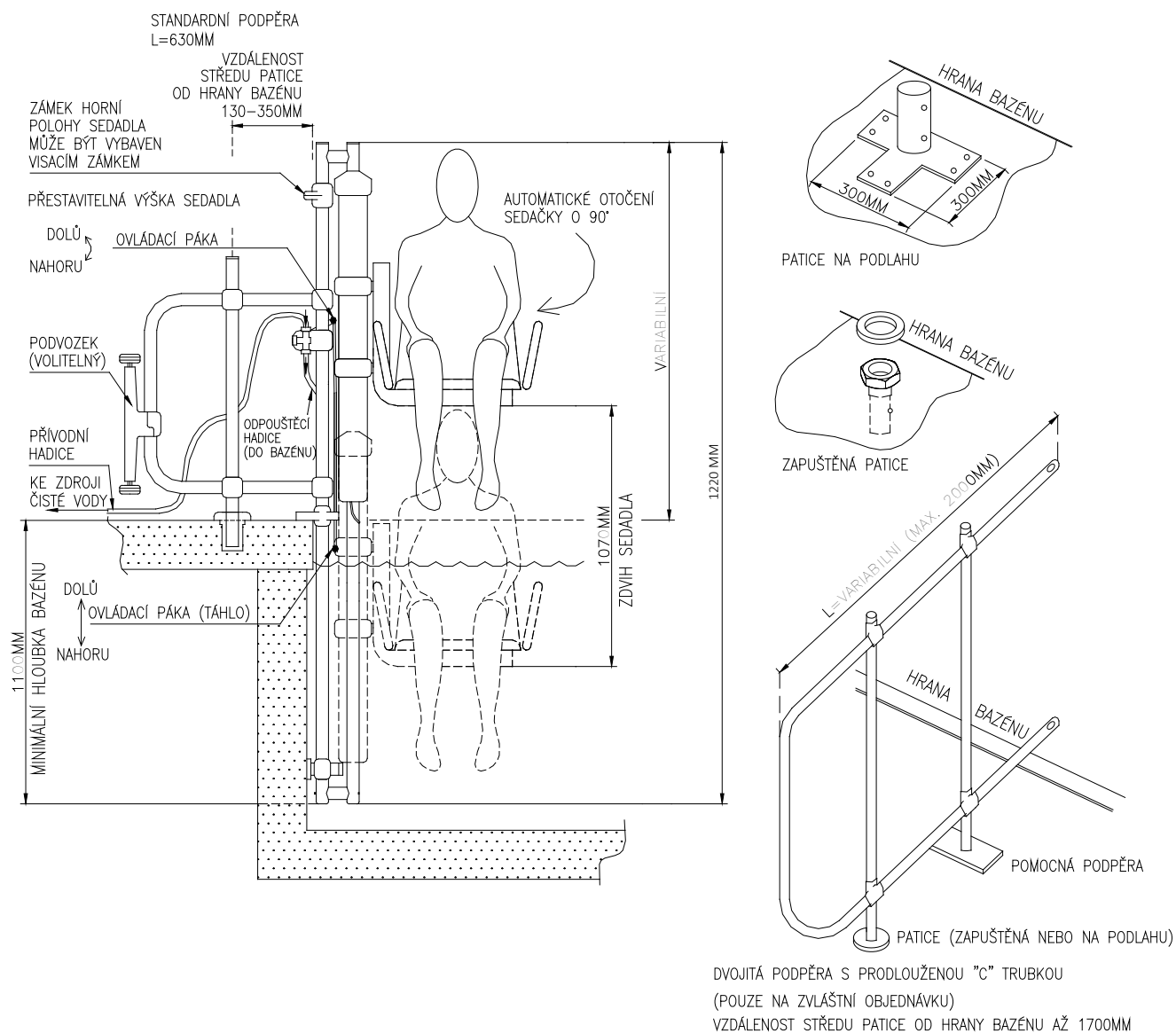
**Maintenance list**

## List of parts



Pos. No	Description
1.	B1000.013 T - sleeve
2.	B1000.013 T - sleeve
3.	B1000.012 cross sleeve
4.	B1000.012 cross sleeve
5.	B1000.002 main tube
6.	B1000.018 safety ring
7.	B1000.017 recessed panel
7A.	B1000.003 screwed panel
8.	B1000.014 edge pillar
9.	B1000.006 vertical pillar
10.	B1000.054 pressure water supply
11.	B1000.016 valve sleeve
12.	B1000.012 lock
13.	B1000.007 lower pillar
14.	B1000.009 sleeve for seat holder
15.	B1000.040 carriage
16.	B1000.005 C-tube
17.	B1000.022 cylinder
18.	B1000.029 seal (not shown)
19.	B1000.024 upper piston (not shown)
19A.	B1000.023 lower piston (not shown)
20.	B1000.004 fastening tube
21.	B1000.001 piston rod
22.	B1000.057 seat
23.	B1000.038 left armrest (on order)
24.	B1000.008 seat frame
25.	B1000.030 cover (not shown)
26.	B1000.031 key for cover (not shown)
27.	B1000.015 lower cross connection
28.	B1000.005E extended C-tube (not shown)
29.	B1000.051 main fastening screw
30.	B1000.058 seat belt (not shown)
31.	B1000.053 drain hose (not shown)
32.	B1000.054 clamp for drain hose (not shown)
34.	B1000.020 operating rod
35.	B1000.032 operating lever
36.	B1000.055 valve

## Mechanical scheme

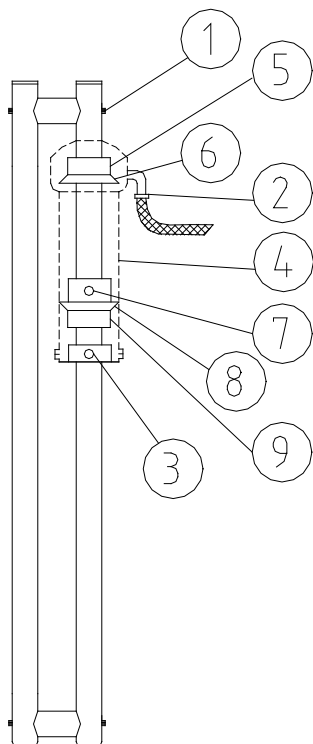


## Technical details

- minimal water pressure: 0,3MPa (under a load of 85 kg), at a maximum load of 120 kg it is necessary to have a water pressure of 0,4
- Recommended type of pressure water hose: type MPVC10/14,5 (inner diameter of 10mm)
- Operating lever on the entry level as well as on the water lever is easy to reach
- Seat rotates 90°
- The fastening of the Poollift is appropriate for different kinds of swimming pools.
- Dual pillar with extended C-tube, left armrest, transport wheels and seat belt on special order

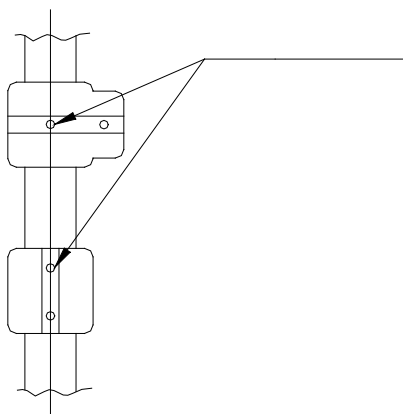


## Instructions for seal- and piston-replacement



1. Remove the screws from the upper and the lower end of the main tube
2. Detach the pressure water hose
3. Remove four screws from the cylinder base
4. Slide the cylinder out off the piston rod
5. Slide out the upper piston
6. Slide out the upper seal
7. Unscrew three screws from the spacer of the lower piston and slide out the spacer
8. Slide out the lower seal
9. Slide out the lower piston

After the optical control exchange the used seals and pistons and put the cylinder back together in reverse.



Make sure that that the screws in the center of the main tube are in line with each other before operating. If the screws are in the right postion, thighten them.

