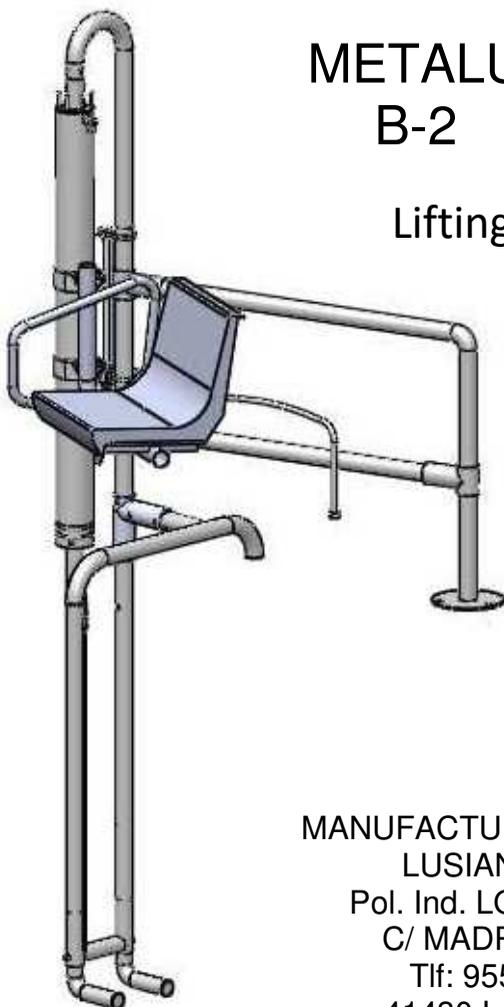


# HYDRAULIC LIFT FOR ENTERING POOLS

## METALU B-2

Lifting capacity:  
150 kg



MANUFACTURAS METALICAS  
LUSIANERA, S.L.

Pol. Ind. LOS MOTILLOS  
C/ MADRID, 11 C-D.

Tlf: 955 90 77 84

41430 LA LUISIANA

[www.ascensoracuatico.com](http://www.ascensoracuatico.com)

## **1.- Manufacturer's data:**

- Name: Manufacturas Metálicas Lusianeras, S.L.
- Address: Plg. Ind. Los Motillos. c/ Madrid, 11 C-D
- Telephone/Fax: +34 955 90 77 84
- EC Marking
- Model: METALU B-2
- Date manufactured: 2021

## **2.- General features of the METALU B-2 lift.**

The lift is ideal for helping persons with reduced mobility or a disability to enter a pool on their own.

This lift requires a water supply pressure between 3.5 and 5,5 kg/cm<sup>2</sup> in order to operate properly. If this pressure is not available from the water main, a hydraulic pump must be installed that is compliant with the current Machine Safety standard, in order to supply the pressure that is required.

The control that operates the lift consists of a three-way valve, which operating positions allow the seat to be lowered and raised for entering and exiting the pool.

The lift is installed next to the edge of the pool by using the indicated anchors to fix its structure to the concrete slab that is located around the edge of the pool.

The lift includes a vertical support foot, which is fixed to the lift structure by means of 2 screws. The position of this piece shall be adjusted until the unit is perfectly vertical and its adjustment will vary depending on the size of the pool edge overhang.

The lift shall be connected to the supplementary equipotential grid that shall be available at the pool in accordance with ITC-BT-31.

### **3.- Safety.**

The lift shall be designed with the following machine safety standards in mind (UNE-EN ISO 14121-1-2008, UNE-EN 61310-1-2008, UNE-EN 61310-2-2008, UNE-EN ISO 12100-2012 and UNE-EN 547-3-1997+A1:2008).

- The entire structure and accessories will be manufactured in stainless steel.
- All metal edges shall be free of burrs, which could cause injury to personnel.
- All the hardware that is used shall not entail a risk to personnel since only round head screws shall be used to prevent scratching or users from getting snagged on them.
- Sufficient clearance has been left around moving parts to prevent any body parts from getting trapped between them.
- A standard warning sign is included indicating the maximum weight that is allowed on the lift (according to the model)
- The static coefficient has been taken into account, which has been doubled to calculate the mechanical strength and risk of tipping over.
- The moving parts travel at a low speed to prevent the user from falling off the seat.

### **4.- Ways in which the lift shall not be used.**

- The lift shall not be used until the proper commissioning procedures have been completed.
- The user must be guided or helped by a person from the facilities who knows how to properly operate the lift.
- The lift shall only be used by personnel authorised by the establishment where the lift is installed.
- The maximum weight of personnel using the lift shall be either 120 or 150 kg depending on the model that is chosen, as indicated on its warning sign.
- Prior to operating the lift, the user must make sure that no person or obstacle is located in the path of the moving parts of the lift.
- Once a person is inside the pool, the seat must return to its initial position to prevent it from becoming an obstacle inside the pool.

## **5.- Position occupied by the user on the lift.**

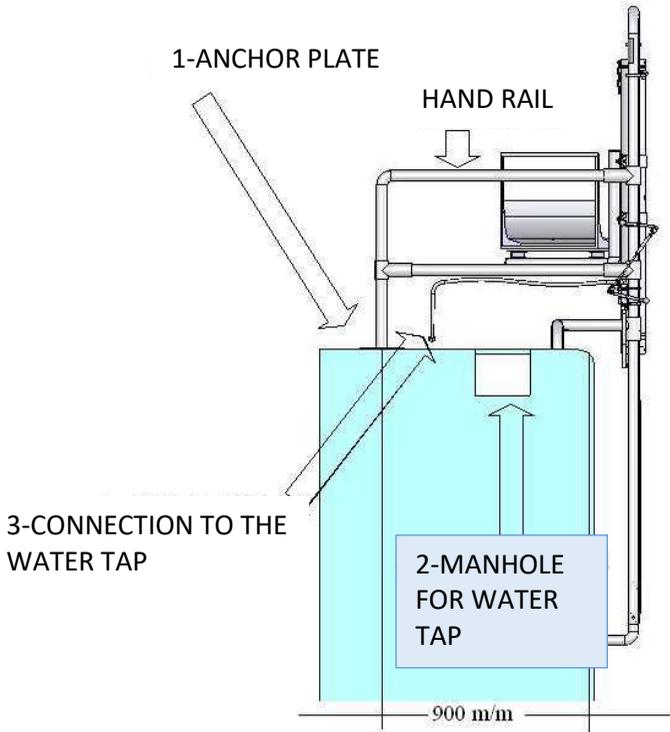
- The user sits on the seat, from which its controller is easily accessible from both ends of its travel.
- The seat can be adapted to the anthropometric measurements in accordance with the European Standard.
- The speed at which the seat travels is slow enough to avoid any risk of a person falling off the seat. The seat also has a stiff armrest that provides increased safety for the user.
- During its movement, the person's extremities do not touch any parts of the lift or the edge of the pool.

## **6.- Pre-installation.**

The following points shall be taken into account prior to installing the METALU B-2 lift:

- ✓ Choose a proper location where to install the lift. We recommend installing the lift at a location where the pool depth is approximately between 1.20 and 1.30 metres to ensure that if the user needs help, the person accompanying him or her can stand with their head above water.
- ✓ At the location where we have decided to install the lift, we must have a water connection (underground if possible) and shut-off valve capable of providing a pressure between 3.5 and 5.5 kg/cm<sup>2</sup>, depending on the pressure required to lift the load. A pressure set must be installed if the water main is not capable of providing this pressure.

Details to consider during the pre-installation.



1. The location where the lift will be anchored must be strong enough to support its operating weight.
2. We recommend installing the water connection with a shut-off valve inside a manhole so that the lift can be disconnected for cleaning or storage.
3. The water connection is made using a ½ inch junction.
4. The rail can be cut to a minimum size of 500 mm.

## **7.- Recommendations to ensure a proper operation and for maintenance.**

\*- The lift must be cleaned periodically. Clean the lift just like you would the taps at home. For ground-in dirt, use ViaKal gel or similar product and a scotch brite for Vitro ceramic surfaces.

\*- If the lift is not used periodically we must operate it up and down several times with a load.

\*- At the end of the season, thoroughly clean the lift, rinsing it with plenty of water to ensure foreign particles are removed from its surface. Store the lift in an area where it is protected from impacts or damage, leaving the piston empty (its lower section) and drying it with a cloth.

**The lift must be stored when used in areas with a risk of winter frosts**

\*- At the start of the season, purge the hose prior to connecting it to the piston.

\*- The water pressure must not exceed 6.5 kg/cm<sup>2</sup>.

\*- Use clean water to operate the lift; filters must be used if water from wells or other type of water with impurities is used.

\*- If the ELECTROLYSIS water treatment system is used, we recommend connecting the lift to a ground connection.

\*- **Cleaning** its exterior is the **only required maintenance**  
The lift shall be rinsed with fresh water on a daily basis.



Keep in mind that even though METALU B-2 is manufactured in AISI 316 stainless steel, the lift gets splashed by water with chlorine, dust and all types of impurities. If these particles are not cleaned, in time they will become embedded in the steel, leaving it with a poor appearance. To prevent this from occurring, just rinse the lift with fresh water **each day** when you fill up the pool; this way you will ensure these particles are removed, preventing them from becoming embedded in the steel.

2- Every two or three days, clean the lift using a damp cloth, just as you would clean any other type of furniture in the yard; this way the dirt that was not rinsed off will be removed by the cloth.

### **COVERED POOLS**

\*- If the lift is used in a covered pool, cleaning is essential.

Considering that these pools are located inside buildings where the temperature of the water and air are regulated. Compared to outdoor pools, in addition to higher water and air temperatures, these elements are not renewed as often and also experience a higher usage. All of this results in a higher number of bathers, more organic contamination and consequently, **higher doses of disinfectant products**.

These products contain volatile particles that condense in poorly ventilated air, adhering themselves to metallic surfaces.

**Therefore, these instructions must be followed in detail in order to be covered by the guarantee**

<b>FAULT OR APPEARANCE OF A FAULT</b>	<b>REASON OR CAUSE</b>	<b>SOLUTION</b>
THE SEAT LOWERS BUT DOES NOT RISE OR RISES WITH	LOW PRESSURE	INSTALL A PRESSURE SET UNTIL 3.5 KG/CM <sup>2</sup> IS GENERATED
THE SEAT LOWERS PROPERLY BUT DOES NOT RISE OR RISES WITH DIFFICULTY AND THE WATER PRESSURE IS AT 3.5 KG/CM <sup>2</sup>	SUFFICIENT PRESSURE DOES NOT REACH THE PISTON; THE VALVE OR HOSES ARE OBSTRUCTED	CHECK THAT THE VALVE, INLET HOSE AND HOSE CONNECTED FROM THE VALVE TO THE PISTON ARE NOT OBSTRUCTED
THE SEAT RISES BUT DOES NOT LOWER	THE HOSES ARE NOT CONNECTED PROPERLY	CONNECT THE HOSES AS INDICATED BY THE MANUFACTURER
THE SEAT RISES PROPERLY BUT WHEN LOWERING, IT STOPS HALF WAY THROUGH ITS	THE SEAT SUPPORT CLAMPS ARE VERY TIGHT	LOOSEN THE SEAT SUPPORT CLAMPS UNTIL THEY ARE COMPLETELY LOOSE, THEN TIGHTEN SLIGHTLY
		<b>TO BE CARRIED OUT BY A TECHNICIAN</b>
THE SEAT RISES AND LOWERS WITH DIFFICULTY AND A LOT OF WATER IS LOST THROUGH THE TOP OR LOWER	GRAINS OF SAND OR HARDENED MUD IS STUCK BETWEEN THE SEALS	CLEAN OR REPLACE THE SEALS
WATER LEAKS THROUGH THE TOP OF THE PISTON	LOW PRESSURE	INSTALL A PRESSURE SET UNTIL 3.5 KG/CM <sup>2</sup> IS GENERATED (TO LIFT 120 KG FOR 150 KG 5.5 BAR REQUIRED)
	VALVE BROKEN AND LOSES PRESSURE	
	SEALS DETERIORATED	REPLACE THE SEALS

## CERTIFICATE FOR COMMISSIONING A LIFT DEVICE

- CERTIFYING manufacturer:  
Manufacturas Metálicas Lusianeras, S.L.
- Registered with CIF (Tax ID): B-41.834.508
- Central address: Pol. Ind. Los Motillos, c/ Madrid, 11 C-D  
41430 La Luisiana (Seville)

### INFORMATION ABOUT THE LIFT

- Type Hydraulic lift for entering pools.
- Model: METALU B-2

Technical Construction Report certified by the School of Technicians and Technical Engineers of Seville.

The company that manufactures this device CERTIFIES that:

- 1- The manufacturing and assembling of the lift has been carried out according to the technical project and the assembly drawing.
- 2- The design and manufacturing has been carried out in compliance with Spanish regulations in terms of safety of machinery, taking into account the following standardised standards: UNE-EN ISO 14121-1- 2008, UNE-EN 61310-1-2008, UNE-EN 61310-2-2008, UNE-EN ISO 12100-2012 and UNE-EN 547-3-1997+A1:2008.
- 3- The lift device has the EC marking and therefore its manufacturing and design is compliant with the European Economic Community standard.

In La Luisiana, 20 October 2009.

The competent technician  
Company



Jesús León Delis  
Collegiate Registered  
no. 10061

The Manufacturing



Manuel Escalera Soler





## EC DECLARATION OF CONFORMITY

The undersigned in representation of the company:

- Company name: MANUFACTURAS METALICAS LUISIANERAS, S.L.
- CIF (TAX ID): B-41.834.508
- Address: Pol. Ind. Los Motillos, c/ Madrid, 11 C-D.
- City: La Luisiana (Seville).

Machine description:

- Model: METALU B2
- Type: Lift device with hydraulic up, down and pivoting movements to help people with reduced mobility to enter pools and Spas.
- Series: METALU B-2 for 150 kg.

The machine is compliant with the following provisions.

The machine is compliant with the provisions stipulated in Directive 2006/42/CE of the European Parliament and the Council of 17 May 2006 related with machinery.

Standardised standards and technical specifications that have been used.

- UNE-EN ISO 14121-1-2008. Safety of machinery. Risk assessment. Part 1: Principles.
- UNE-EN 61310-1-2008. Safety of machinery. Indication, marking and actuation. Part 1: Specifications for visual, acoustic and tactile signals.
- UNE-EN 61310-2-2008. Safety of machinery. Indication, marking and actuation. Part 2: market requirements
- UNE-EN ISO 12100-2012: Safety of machinery. General principles for design. Risk assessment and risk reduction.
- UNE-EN 547-3-1997+A1:2008: Safety of machinery. Human body measurements. Part 3: Anthropometric data.

In La Luisiana, 14 November 2015.

Signed. Mr. Manuel Escalera Soler.  
Administrator



## **MANUFACTURAS METALICAS LUISIANERAS, S.L.**

C.I.F. (TAX ID) B-41834508

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