

**pascal** BOX

www.pascal-box.com



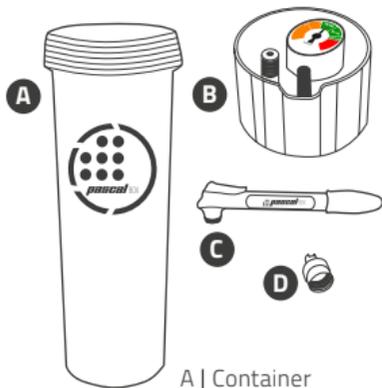
**pascal** BOX®

**USER GUIDE**

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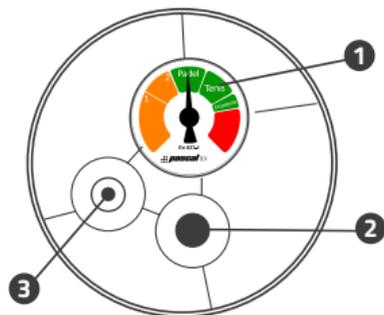
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## 1. Product description

PASCAL BOX® is a precision device capable of recuperating the loss of pressure in paddle, tennis and frontenis balls. It is made up of a container with a cover to close it hermetically, safely supporting pressures greater than atmospheric pressure in a controlled and precise manner. It can store 3 paddle or tennis balls or 4 frontenis balls.

With time, balls progressively lose pressure from the moment you remove them from their original container. This depressurization increases with each impact, losing up to 25% of the pressure in just the first match.

Via compensation between the pressure and volume in the container, PASCAL BOX® doesn't just stop that loss, but actually **reloads the ball's pressure up to reglementary levels** for each sport.

PASCAL BOX®, with its internationally patented technology allows you to enjoy a balls bounce as if it were its first day, every match.

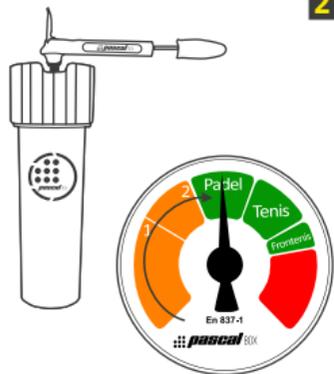
## 2. User Guide

### 2.1 Maintenance of balls from the first use (recommended)



- 1 Put the balls in the container and **close the cover tightly** to seal it completely\*. It is best if the balls put into the container come from the same original pack.

*\*Once pressurized, if you detect that the level of pressure decreases with time, the container has not been closed properly.*



- 2 Remove the cover from the injection valve and **insert the pump with the lever lowered**. **Lift the lever and pump pressure until the indicator's needle reaches the corresponding green zone** (paddle or tennis)\*. Lower the lever, remove the pump (if necessary, remove any extra pressure by pressing the inside of the valve) and replace the cover.

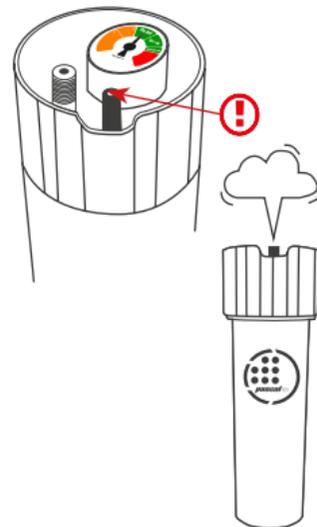
*\* For frontenis balls the indicator must be between the green and red zones.*

- 3 **Maintain the Pascal Box pressurized until starting the next match.** To completely recuperate the pressure lost during the match it takes between 12 and 72 hours\*, depending on the ball's quality and condition.

*\* You can use the balls before this period, keeping in mind that they may not have completely recuperated their original pressure.*

- 4 Before opening the cover, **completely release the interior pressure by pressing on the middle of the valve\***. Unscrew the cover and remove the balls. They'll return to the same pressure as their first day!

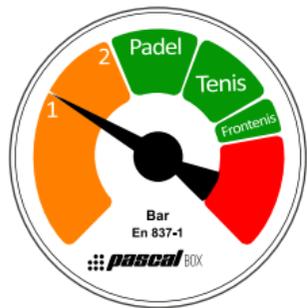
*\* It is important to remove all of the pressure before opening the Pascal Box to avoid possible damages. Either-way, when it is pressurized, it is very difficult to open, requiring a lot of strength to do so.*



## 2.2 Recuperation of deflated balls

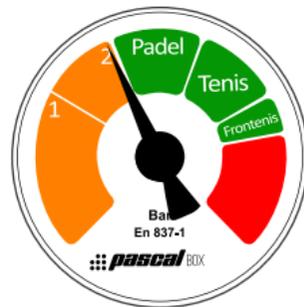
Procedure to recuperate the pressure of a flat ball is **different than that of a new ball**. In this case you must gradually present the ball to the pressure throughout several days in order to avoid it from deforming.

In order to recuperate flat balls, they must have had a regular use and **not be badly deteriorated** (both the rubber and felt must be in good condition).



- 1 After having put the balls in the container and closed the cover firmly, use the pump to inflate the necessary pressure to **take the indicator to 3/4 of the orange zone (position 1)**. Keep the Pascal Box at this point for **72 hours** to re-load the inside of the ball at this same pressure.

- 2 Then it returns to inject pressure until the indicator reaches the beginning of the "Paddle" green zone (position 2) (independent of the type of ball). Keep the Pascal Box pressurized at this point for another **72 hours**.



- 3 After completing step 2, **take the needle to the ball's corresponding green zone** and keep the Pascal Box at this point for **72 hours**.



The balls will have recuperated their reglementary pressure and bounce like on the first day.

*NOTE: If at any time during this procedure you observe that a ball deforms, it is a sign that it is no longer in good conditions to be recuperated, so you must dispose of it.*

### 3. Maintenance

With continued use, balls bring in sand and other impurities to the Pascal Box. When this sand settles on an o-ring (the circular black ring located on the bottom of the cover), it can create small losses in pressure. In order to avoid this **clean and lubricate this -o-ring periodically** to guarantee an optimal seal in the cavity (either with vaseline, grease or oil).

If after a while since the last time the Pascal Box has been pressurized you detect a loss in pressure, it may be due to one of the following three causes (in order of probability):

- 1) that **the cover is not closed tight enough.**
- 2) that **the o-ring between the container and cover has sand or impurities**(see previous paragraph).
- 3) that due to an intense use, the metallic part inside the injection valve has loosened slightly (see section 5: Use of the tool cover).

### 4. Recommendations

- The manometer inside the cover is a very sensitive device and may be damaged upon an impact of the device. Please **keep the manometer from dropping or from hard bumps** in order to maintain its proper performance.
- If your manometer shows something other than zero while it is not pressurized, it has probably been dropped. See our Manometer Replacement Policy
- Use the included pump, or any other manual pump with the right nozzle. Do not use electric compressors. Do not inject any gas other than air.
- The manometer may present a small angulation. This is the normal result of the assembly process that assures a complete, hermetic seal of the container.
- If you have any questions **see our FAQ on our website.**

### 5. Use of the tool cover\*

This has a double function: one of its sides works as a

cover for the injection valve and with the other you can:

- **Press the center of the valve** to release the pressure.
- **Adjust the inflation valve.** It is not common, but after intensive use, the metallic part inside the valve may loosen, producing a small loss of pressure in the container. To resolve this, insert this side of the cover onto the valve all the way in and turn it softly clockwise until it reaches its end.

*\* For more information visit our website.*

## 6. Guarantee

PASCAL BOX, S.L., guarantees this product against any material defect and labour used for its manufacture up to two years after its purchase. This guarantee includes the repair, replacement or change of product and/or components free of charge. To exercise this guarantee, just present a copy of the purchase receipt (invoice or online order) from the retailer where you purchased it and contact PASCAL BOX®'s customer service.

This guarantee is not valid under the following conditions:

- When the use, care and operation of the product does not coincide with the instructions in the product's user guide.
- When the product has been used for purposes other than its aim, if it has been improperly used, hit, exposed to heat and humidity, altered by a corrosive liquid or substance or due to any other cause attributed to the user.
- When the product has been disarmed, modified or repaired by people not authorized by the company.
- When the purchase receipt has been altered or does not clearly reflect its original data.



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