Floor pumps

PISTA • SUPER PISTA

Instructions for use and maintenance

SILCA

SUMMARY

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PRESENTATION

Dear Customer,

*Thank you for choosing a **SILCA** product.*

*Our Company has been dealing in the bicycle accessories sector since **1917** with professionalism, passion and attention to technical evolution.*

*Our selection of the best materials and our planning aimed at producing long-life goods will allow you to always rely on your **SILCA** article.*

We are certain that you will be fully satisfied with our product(s) and we look forward to your continued business in the future.

The floor pump described in this manual is designed for inflating bike, moped and motorcycle tires with air using direct human force and to possibly check the pressure achieved. The pump is designed for domestic use. Its professional use is allowed but not on a continued basis.
The pump is produced in two versions, ***PISTA*** and ***SUPER PISTA***, whose main difference is the quantity of air that can be inflated with each stroke as described below.

- ***PISTA*** **versions**
  Tube: **500 mm**
  Handle: **plastic material**
  Pump capacity: **300 cm³/stroke (18.3 in³/stroke)**
  Users: **one**

- ***SUPER PISTA*** **versions**
  Tube: **600 mm**
  Handle: **beech wood**
  Pump capacity: **360 cm³/stroke (22.0 in³/stroke)**
  Users: **one**

The pump must stand on a flat and stable surface. It is optimal to use your feet to anchor the base. This pump is primarily designed for indoor use and should not be left outside. It may be used to inflate both tubed and tubeless tires.

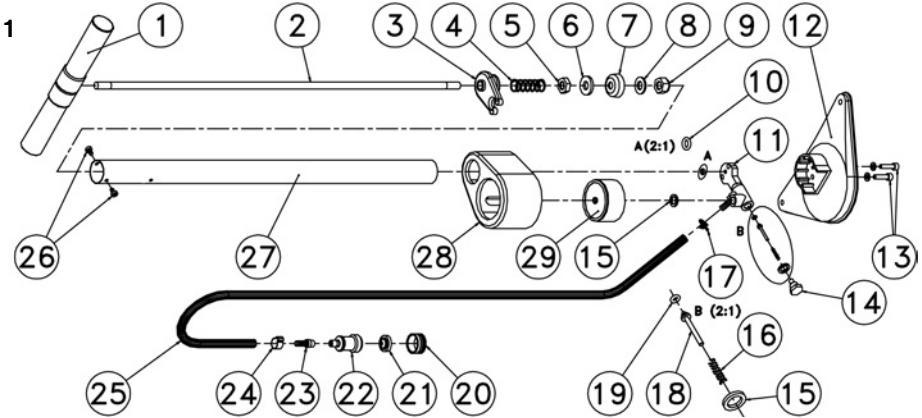
The air chucks can be connected to **American**, (Schrader), **French**, (Presta), **Dunlop** and **Italian** valves.

The pump is fully rebuildable, which allows you to maintain all its parts in perfect working order and rapidly replace any damaged components.

However, extraordinary maintenance must be performed by qualified staff.

The pump is mainly made of a tube through which a plunger runs that can be operated by a handle. By lifting the handle, the user creates a reserve of air inside the tube.
When the handle is pressed, the air passes into the hose and, through the air chuck connected to the valve, into the tire.
It is possible to check the pressure achieved using the pressure gauge supplied.

Figure 1



A • GENERAL INFORMATION A2 • MAIN COMPONENTS

LEGEND

1 Handle
2 Pump shaft
3 Closure cap
4 End spring
5 Upper nut
6 Upper washer
7 Pump plunger
8 Lower washer
9 Lower self-locking nut
10 Tube washer
11 Valve body
12 Base
13 Tube fixing screws
14 Non-return valve closure cap
15 Sealing ring
16 Non-return valve spring
17 Elastic clamp
18 Non-return valve
19 Non-return valve washer
20 Presta air chuck ring
21 Presta air chuck washer
22 Presta air chuck
23 Schrader air chuck
24 Pinchable clamp
25 Air hose
26 Closure cap fixing screws
27 Tube
28 Pressure gauge protection
29 Pressure gauge

The pump is designed to be used by adults only. Therefore, children should not use it.

Keep children or people away that are not directly involved with the inflation process.

Do **not** use the pump to inflate tires with gas other than air.

During inflation, maintain maximum possible distance from the air chuck. **Keep** your face **away** from the pump.

As supporting base for the pump, always choose a stable and flat surface on which it is possible to step. Maintain the inflation position planned. Avoid any position that is not indicated in the manual.

Never hold on to the pump.

Take off any cutting object.

Keep away from pets.

Do **not** inflate car tires.

Do **not** use the pump to blow or suck dust or fluids or in a way other than those described in this manual.

Do **not** use the pump outdoors, in unfavorable weather conditions. Store in a dry place after use.

Never drop the pump since the pressure gauge could be seriously damaged.

To ensure the safe and reliable functioning of the pump, perform periodical maintenance as indicated in the manual.

Extraordinary maintenance and any repairs should be performed by qualified staff.

Never lubricate the pump with oil or substances that are in a liquid state at room temperature.

Before performing any operation, read the instruction manual carefully. **SILCA** accepts no responsibility for any accident due to the disregard of the instructions described in this manual.

Keep the manual in a place that is easy to find for any future use.

Danger for people
It highlights the risks for people and pets.

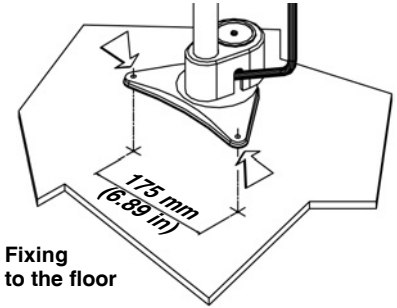
Danger for products
It accompanies the warnings to prevent damage to or malfunction of the pump, tires, bike or surrounding objects.

Obligation
It draws particular attention to the operations required to avoid danger to people, pets and objects.

You can keep the movable pump in the best place for use, near the tire to be inflated. Otherwise, you can choose to fix it firmly to the floor through the two holes in the base. In any case, the supporting surface chosen must be flat and stable and it should be possible to step on it.

It should be possible to free the space around the pump from people, pets and objects not involved in the inflation operation for a radius of at least **one meter**, (**3.3 ft**).

The chosen area must be suitable to put the bicycle in it and allow all necessary operations.



Fixing to the floor

Choose a fixed installation inside the premises! Find an indoor space in which to keep the pump after use! The pump is not designed to resist weathering.

The pump is designed to be used by adults only!
Therefore, children should not be allowed to use it. After use, keep it out of their reach.

- As supporting base for the pump, choose a stable and flat surface on which it is possible to step, preferably in an indoor space.

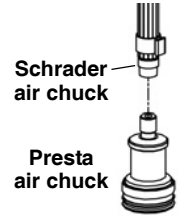
Take off any cutting object!

- Free the space around the pump from people, pets and objects not involved in the inflation operation, or that can cause situations of danger, for a radius of at least **one meter**, (**3.3 ft**).

- Draw the bicycle close to you and check the type of its valve.

  In case of **American**, (Schrader), valves, unscrew the Presta air chuck and use the Schrader air chuck only.

  In case of **French**, (Presta), **Dunlop** and **Italian** valves, use the Presta air chuck screwed onto the Schrader air chuck.



- Remove the valve cap and unscrew the closing piston, if present.
- According to the type of air chuck:
  - ✓ screw the Schrader air chuck ring deep onto the valve;
  - ✓ insert the Presta air chuck deep onto the valve.
- Put your feet on the pump base, keeping the pressure gauge in front of you.
- Raise the pump shaft with both hands using the handle and lower it again with vigor. The tire starts inflating.
- Look at the internal pressure on the pressure gauge.
- Inflate the tire to the desired pressure. Refer to the manufacturer's indications.

Keep your face away from the air chuck or tire!

Never hold on to the pump!

Once you have completed the operation, according to the type of air chuck:
- ✓ unscrew the Schrader air chuck ring from the valve;
- ✓ remove the Presta air chuck by pulling it.

- Screw the closing piston again, if present, and replace the valve cap.

You can use the pressure gauge hand of reference to fix a point on the dial corresponding to the pressure desired. It will thus not be necessary to read the scale every time. To move the indicator, operate on the central pin using a screwdriver or a blade.

Soon after use, put the pump indoors!

E1.1 • Cleaning

Clean the pump with a cloth slightly soaked in detergent and wipe it with a smooth cloth.

Do not use strong detergents! In particular, do not use solvents and fuels.
Should you wet the pump by accident, wipe it immediately!

E1.2 • Greasing

Pull out the pump shaft completely by raising the handle and spread a little grease all over its surface.

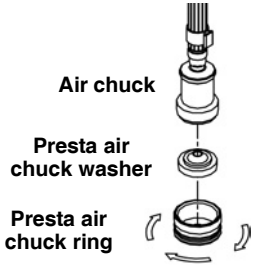
Never lubricate the pump with oil or substances that are in a liquid state at room temperature!

E • MAINTENANCE
E1 • ORDINARY MAINTENANCE

E1.3 • Replacement of the Presta air chuck washer

Follow the instructions below.

- Unscrew the Presta air chuck ring by rotating it in the direction shown in the figure and remove it.
- Remove the washer and replace it.
- Screw the ring again by rotating it in the opposite direction.
- Fasten it with your hands.



Be careful to the face of the washer! The cap should face the Presta air chuck as shown in the figure.

Do not fasten the ring using wrenches or other tools!

Extraordinary maintenance must be performed by qualified staff!

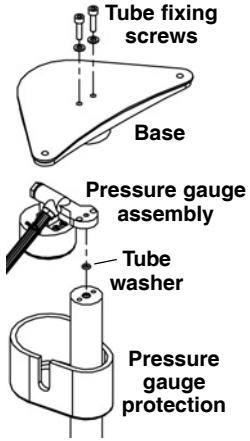
E2.1 • Replacement of the tube washer

Get a **4 mm**, (**0.16 in**), Allen wrench and follow the instructions below.

- Turn the pump upside down, loosen the two tube fixing screws using the Allen wrench and remove them together with the washers.
- Remove the base.
- Slide the pressure gauge protection gently and move it downwards.
- Remove the pressure gauge assembly. You can now operate on the tube washer.
- Remove the washer.
- Clean and wipe the washer housing carefully and remove any oil deposits.

Do not use strong detergents! In particular, do not use solvents and fuels. Do not drop fluids inside.

E • MAINTENANCE E2 • EXTRAORDINARY MAINTENANCE



- Place the new washer by pressing gently.
- Place the pressure gauge assembly on the washer keeping on pressing gently. The holes must be in line with those of the tube.

Be careful to the side of assembly! The pressure gauge must be on the same side of the recess for the air hose in the closure cap, (Fig. 1, detail 3).

- Put the base on the pressure gauge assembly, place the two tube fixing screws together with the washers and screw them using the wrench. Always keep on pressing gently.

Be careful to the side of assembly! The base must face as shown in the figure.

- Fasten the tube fixing screws using the wrench without forcing.
- Replace the pressure gauge protection around the assembly gently.

E2.2 • Cleaning and replacement of the non-return valve

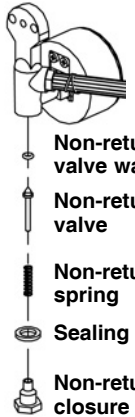
Follow the instructions below.

- Get a **14 mm**, (**0.55 in**), open-ended spanner, a small screwdriver and a spool of **PTFE** tape for gas.
- Grab the pump through the tube.
- Slide the pressure gauge protection gently and move it towards the handle.
- Unscrew the non-return valve closure cap using the spanner.

Be careful to the pressure gauge! Never pry the plastic part.
Be careful not to scratch the base with the spanner!

- Remove the cap and the sealing ring.
- Turn the pump upside down so as to rotate the valve as shown in the figure. The spring, the valve and the washer will come out.
  - Remove the non-return valve washer by prying on one side with a small screwdriver and rotating the valve.

E • MAINTENANCE E2 • EXTRAORDINARY MAINTENANCE



- Clean and wipe all parts and the inside carefully removing any oil deposits and scraps of washers.

Do not use strong detergents! In particular, do not use solvents and fuels. Do not drop fluids inside.

- Check the state of the non-return valve washer, spring, sealing ring and, if necessary, replace the damaged parts.
- Place the non-return valve washer onto the valve.
- Insert inside the valve provided with spring and washer.
- Make the screw-thread on the cap tight again using the **PTFE** tape for gas.
- Screw the cap provided with sealing ring again. Fasten it using the spanner without forcing.
- Replace the pressure gauge protection around the assembly gently.

E2.3 • Replacement of the sealing rings

There are two sealing rings, which are both in the pressure gauge assembly:

- ✓ one is on the non-return valve closure cap; for its replacement, follow the instructions in the chapter **E2.2**;
- ✓ the other ensures the tightness of the pressure gauge. For its replacement, follow the instructions below.
- Get a **14 mm**, (**0.55 in**), open-ended spanner and a spool of **PTFE** tape for gas.
- Slide the pressure gauge protection gently and move it along the tube.
- Loosen the pressure gauge underneath the plastic assembly using the spanner.

Never pry the plastic part of the pressure gauge!

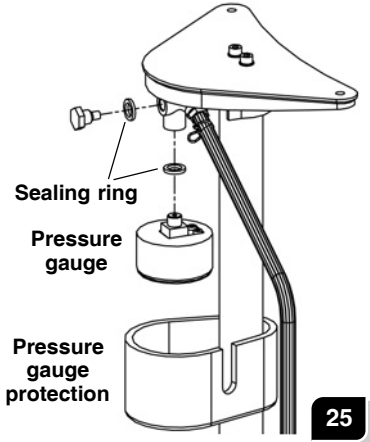
- Unscrew the pressure gauge.

E • MAINTENANCE E2 • EXTRAORDINARY MAINTENANCE

- Remove the sealing ring.
- Clean and wipe all parts and the inside carefully removing any oil deposits and scraps of washers.

Do not use strong detergents! In particular, do not use solvents and fuels. Do not drop fluids inside.

- Place the new sealing ring.
- Make the thread on the pressure gauge tight again using the **PTFE** tape for gas.
- Screw the pressure gauge again using the spanner without forcing.
- Replace the pressure gauge protection around the assembly gently.



E2.4 • Replacement of the pump plunger

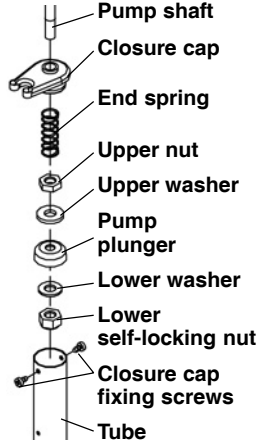
Follow the instructions below.

- Get a **4.5 mm**, (**0.18 in**), Philips screwdriver, two **17 mm**, (**0.67 in**), open-ended spanners and a small quantity of grease.
- Unscrew the fixing screws of the closure cap.
- Remove the cap pulling it upwards.
- Pull out the pump shaft, pulling the pump handle upwards.
- Remove the lower self-locking nut using a spanner, prying at the same time the upper nut with another spanner.
- Remove the lower washer and the pump plunger.
- Spread a little grease on the spring, upper nut, upper washer and on the whole surface of the new plunger.

Never lubricate the pump plunger with oil or substances that are in a liquid state at room temperature!

- Place the pump plunger and lower washer on the shaft.

E • MAINTENANCE E2 • EXTRAORDINARY MAINTENANCE



Be careful to the side of assembly! The pump plunger cavity must face downwards.

Be careful not to mix up the washers! The lower one is the smaller one.

- Screw the lower nut again using the two spanners without forcing.
- Insert the pump plunger into the tube gently, pressing it slightly to make it adhere to the walls.
- Replace the closure cap, rotating it so that the screw holes are in line with the holes in the tube.

Be careful to the side of assembly! The recess of the air hose must be on the same side of the pressure gauge.

- Screw the fixing screws of the closure cap again without forcing.

E2.5 • Repair and replacement of the air hose

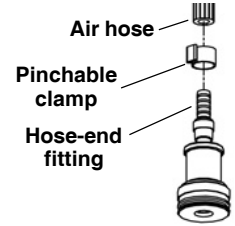
Follow the instructions below.

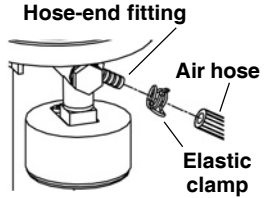
- Get a pair of tongs, a pair of pincers, a saw and a razor blade to be used for repairs.
- Slide the pressure gauge protection gently and move it along the tube.
- Fasten the fins of the elastic clamp from the side of the pressure gauge using the tongs and move it along the tube keeping on pressing.
- Grab the base with one hand and pull the air hose with the other, rotating it slightly to make it come out of the hose-end fitting more easily.

Never pry the plastic part of the pressure gauge!

- Cut the pinchable clamp from the side of the air chuck using the saw and remove it.
- Grab the air chuck with one hand and pull the air hose with the other, rotating it slightly to make it come out more easily.

E • MAINTENANCE E2 • EXTRAORDINARY MAINTENANCE





- Fasten the fins of the elastic clamp again using the tongs and slip it off the tube.
- Insert the clamps onto the new tube. If the old tube can be reused, remove any leaking part using the blade.
- Grab the base with one hand and insert the air hose in the hose-end fitting from the side of the pressure gauge with the other.
- Grab the air chuck with one hand and insert the air hose in the hose-end fitting with the other.
- Fasten the fins of the elastic clamp using the tongs and replace the clamp on the hose-end fitting from the side of the pressure gauge.
- Place the new pinchable clamp on the hose-end fitting from the side of the air chuck and fasten it using the pincers.
- Replace the pressure gauge protection around the assembly gently.

Never fasten the fins of the elastic clamp with your hands!

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
1	The air chuck cannot be inserted in the valve.	The air chuck cannot be adapted to the valve.	Make sure the valve is a Schrader, Presta, Dunlop or Italian valve.	Use a suitable pump for the valve.
		You have used a wrong air chuck for the valve.	Make sure you are using the right air chuck for the valve.	Install the right air chuck for the valve.
		You have not removed the valve cap and/or unscrewed the closing piston.	Make sure you have removed the valve cap and unscrewed the closing piston.	Remove the valve cap and unscrew the closing piston.
2	The air chuck comes out during the inflation operation.	The air chuck is not screwed tightly on the Schrader valve.	Make sure the air chuck is screwed tightly on the Schrader valve.	Screw the air chuck tightly.

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
2	The air chuck comes out during the inflation operation.	The air chuck does not seat right on the Presta, Dunlop or Italian valve.	Make sure the air chuck is inserted deep onto the Presta, Dunlop or Italian valve.	Press the air chuck well.
		The Presta air chuck washer is damaged.	Check the state of the washer.	Replace the washer.
3	The air hose comes out during the inflation operation.	The clamps on the air hose are not correctly positioned.	Check the position of the clamps.	Put the clamps in the correct position.
		The clamps on the air hose are damaged.	Check the state of the clamps.	Replace the clamps.

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
4	The tire does not inflate.	The tire is punctured.	Check the integrity of the tire.	Repair the tire.
		The air hose is damaged.	Check the state of the air hose.	Repair or replace the air hose.
		The pump plunger is completely dry.	Check the state of the plunger.	Grease the plunger.
		The pump plunger is damaged.	Check the state of the plunger.	Replace the plunger.

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
5	The pressure gauge does not show the pressure.	**The non-return valve is dirty or there is some oil on it.**	**Check the state of the valve.**	**Clean the valve and the inside body.**
		The air chuck-valve connection is not correct, (see point **2**).	Check the air chuck-valve connection.	Connect the air chuck with the valve correctly.
		The non-return valve washer is damaged.	Check the state of the washer.	Replace the washer.
		The pressure gauge is damaged.	Check the state of the pressure gauge.	Replace the pressure gauge.

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
6	The pressure gauge does not show the pressure and the pump shaft lifts by itself.	**The non-return valve is dirty or there is some oil on it.**	**Check the state of the valve.**	**Clean the valve and the inside body.**
		The washer of the non-return valve is damaged.	Check the state of the washer.	Replace the washer.
7	There are some air leaks in the base of the pump.	The tube fixing screws are loosen.	Check that the screws are fastened tightly.	Fasten the screws.
		The non-return valve closure cap is loosen.	Check that the cap is fastened tightly.	Fasten the cap.
		The pressure gauge is loosen.	Check the pressure gauge.	Fasten the pressure gauge.

	SYMPTOMS	CAUSES	CHECKS	REMEDIES
7	There are some air leaks in the base of the pump.	The tube washer is dirty or there is some oil on it.	Check the state of the washer.	Clean the washer and its housing.
		The tube washer is damaged.	Check the state of the washer.	Replace the washer.
		The sealing rings are damaged.	Check the state of the sealing rings.	Replace the sealing rings.

G • SPARE PARTS

Ref. to figure 1	Description	Item number
3	Closure cap	73.3
4	End spring	150078
7	Pump plunger	73.1
10	Tube washer	OR103
14, 15, 16, 18, 19	Complete non-return valve	24.7
15	Sealing ring	130024
17	Elastic clamp	24.31
20, 21, 22	Complete Presta air chuck	30.3
21	Presta air chuck washer	24.1
23	Schrader air chuck	30.1
24	Pinchable clamp	24.3
25	Air hose	24.5
28	Pressure gauge protection	73.71
29	Pressure gauge	73.7

H • TECHNICAL FEATURES

Models		*PISTA*	*SUPER PISTA*
Tube		500 mm	600 mm
Handle		plastic material	beech wood
Maximum inflation	[bar]	12	12
pressure	[PSI]	174.1	174.1
Pump capacity	[cm^3/stroke]	300	360
	[in^3/stroke]	18.3	22.0
Users	[n°]	one	one
Weight	[kg]	1.5	1.6
Height	[cm]	61	71
	[in]	24	28
Length	[cm]	22	22
	[in]	8.7	8.7
Width	[cm]	12.5	12.5
	[in]	4.9	4.9

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