Art. 598-599

Instructions for installation, use and maintenance of garden tap art. 598 and 599

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Art. 598-599

1. FUNCTION

Garden taps are employable in gardening and irrigating systems and systems for civil use, especially with water and non-aggressive liquids.

2. INSTALLATION

The tap must be installed by a qualified installer in compliance with the national regulation and/or with the local requirements. If the device is not installed, put into operation and maintained correctly following the instructions contained in this manual, it may not work properly and it can become dangerous for the user.

If the water is too aggressive, there must be an adequate system for water treatment before it enters the device, following the current norms. Without the system, the tap can be damaged and not work properly.

Prior to installing the tap, please be sure that the plant has previously been purged and cleaned in order to remove any impurities that may collect/accumulate on the new tap.

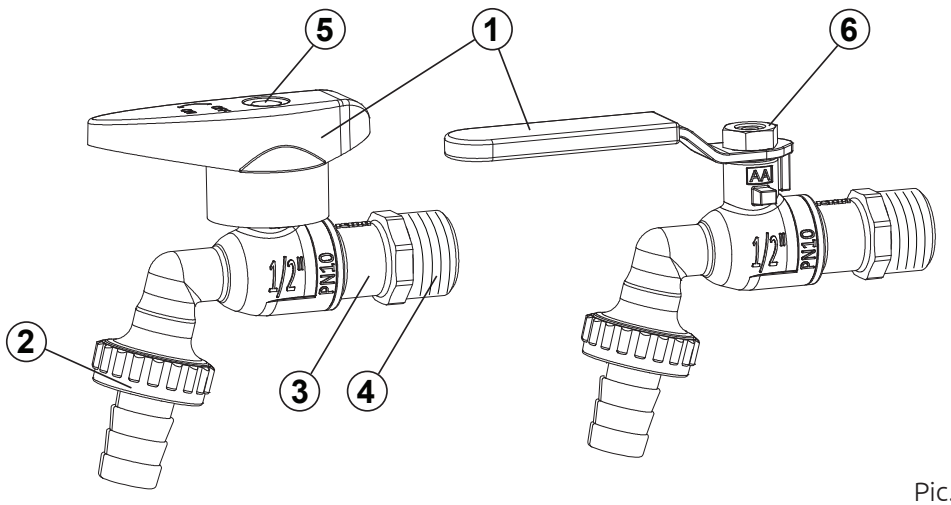
The tap must be installed with the ball in open position and the plant must be off; ensure that inside the piping there is no pressure and the temperature is equal to the room temperature. The tap is supplied in open position, as shown on the lever (1) (pic. 2.1), it closes by turning the lever clock-wise when watching the tap while it is opposite to the hose connector (2) (pic. 2.1), it opens by turning counter clock-wise.

The plant where the tap is installed must be designed and built to avoid stress that may damage the tap and may affect the proper sealing and the correct functioning. It is recommended to install a filter to collect possible impurities upstream.

The installation on the plant is carried out with the threaded connection (4) (pic. 2.1) located in the sleeve (3) (pic. 2.1); the threads are made in compliance with the international norms (type G, ISO 228) and consequently the fittings and the piping where they are set must follow the same norms.

To facilitate the sealing of the connections, it is recommended to apply specific sealing products (ex: tapes PTFE) on the thread of the sleeve (4) (pic. 2.1) of the tap.

Components scheme



Pic. 2.1

1. Lever
2. Hose conector group
3. Sleeve
4. Sleeve thread
5. Tightening screw
6. Tightening nut

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2.1. Tightening

It is recommended to tight and lock the tap inserting a specific key (depending on the size of the tap) in the octagonal zone of the sleeve (see tab.2.1).

Do not exceed with the tightening torques! Really high values could cause overtension inside the tap (see tab.2.1).

TAP SIZE	KEY	MAX. TORSION
G 1/2"	22	20 Nm
G 3/4"	27	30 Nm
G 1"	35	50 Nm

Tab. 2.1

3. USE

The fluid that runs through the tap must be suitable with its manufacturing materials; it has been designed for water and non-aggressive liquids. The pressure and temperature conditions must comply with the following parameters: (see tab. 3.1).

PERFORMANCES	
Working fluid:	water
Max. working pressure:	10 bar (with 20 °C water)
Ambient temperature range:	-40 ÷ 70°C
Min. fluid working temperature:	5 °C
Max. fluid working temperature:	90 °C

Tab. 3.1

To maximise the life of the tap it is recommended to use it mainly in completely open or completely closed position.

Please avoid connecting the hose connector to piping that may block the water flow; the connection flexible piping must be PN 10 and it must be connected to a hose connector with an external nominal diameter of: (see tab. 3.2).

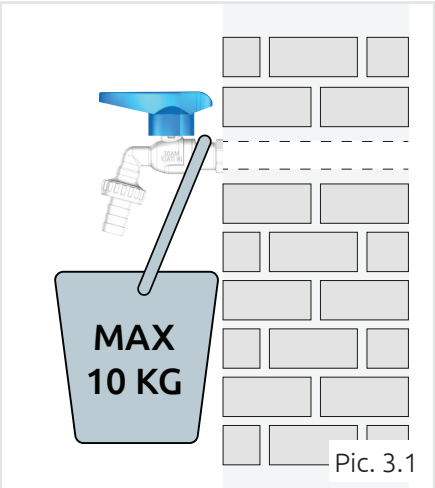
TAP SIZE	HOOSE DIAMETER
G 1/2"	15 mm.
G 3/4"	20 mm.
G 1"	26 mm.

Tab. 3.2

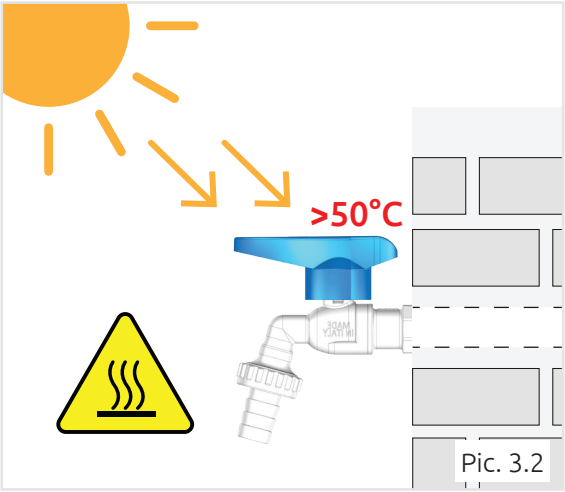
Please ensure that the tap drains/discharges in and properly designed sump to avoid the stagnation of water.

A hypothetical bucket to hang onto the tap should not exceed the mass of 10 kg (pic. 3.1).

Please consider that when the tap is exposed to direct sunlight, the metal parts it is made of could reach high temperatures. If touched with no protection, the risk of getting burn is elevated (pic.3.2). Please provide for adequate protections for your hands.



Pic. 3.1



Pic. 3.2

4. MAINTENANCE (AND CLEANING AND SANITATION)

The tap must be periodically checked on to guarantee its proper functioning. It is recommended to carry out more frequent supervision when the tap works in extreme conditions, for example in particularly cold and/or particularly hot rooms (room temperature under -10°C and/or over 35°C).

For proper functioning of the tap it is recommended to maneuver it (to open and close it or vice versa) at least two times per year.

5. SPARE PARTS

The spare parts available are:

RA9598AD31: loop+hose for tap 89598AD12, 89599ADXX
RA9598AE31: loop+hose for tap 89598AE12, 89599AEXX
RA9598AF31: loop+hose for tap 89598AF12, 89599AFXX
R37598AD12: Aluminium lever + M4 Screw for tap 89598AD12, 89598AE12, 89598AF12.
R37599AD12: Blue steel lever + nut for taps 89599AD12, 89599AE12, 89599AF12
R37599AD18: Red steel lever + nut for taps 89599AD18, 89599AE18, 89599AF18
R37599AD34: Black steel lever + nut for taps 89599AD34, 89599AE34, 89599AF34

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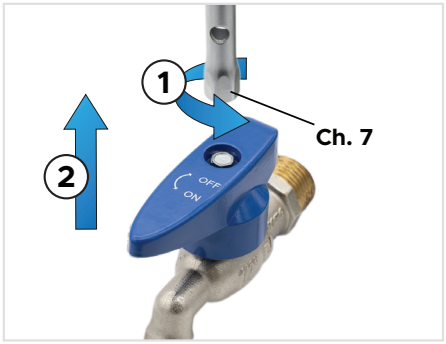
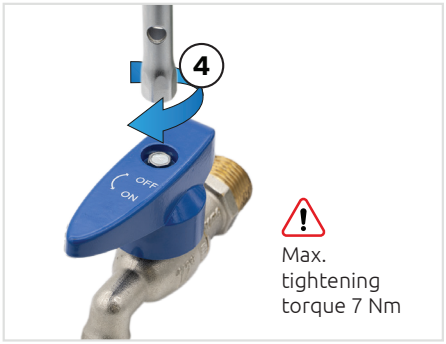
5.1. Levers replacement

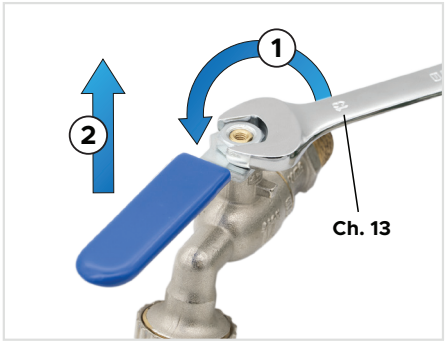
Alluminium lever

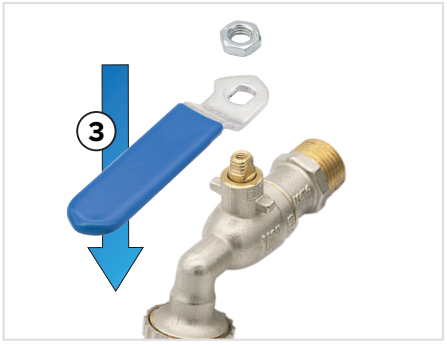


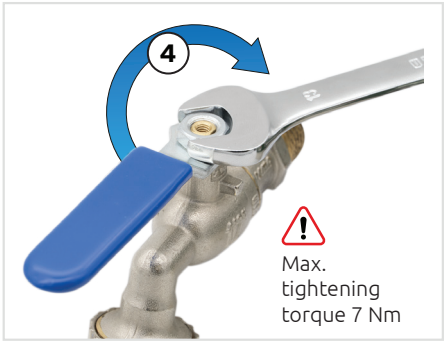


For the disassembly and reassembly of the aluminum lever, our double pipe wrench is available, item code C08598AD06.

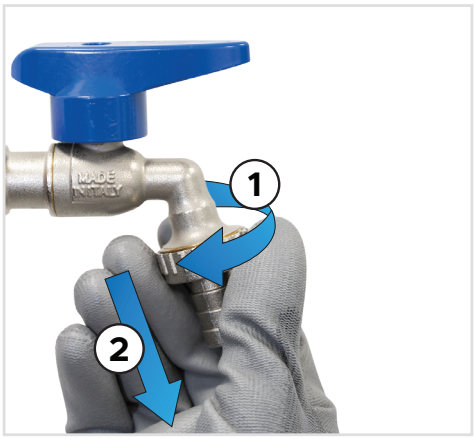
Steel lever

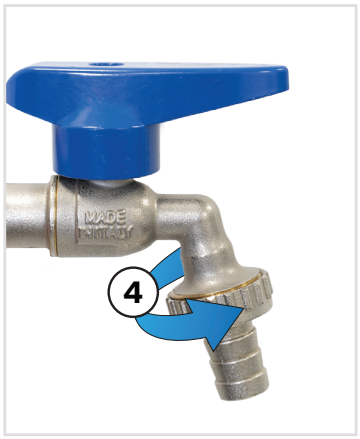






5.2. Hose connector replacement





WEAR PROTECTIVE GLOVES!

6. TRANSPORT, HANDLING AND STORING

The place where the product is conserved must be cool, dry, free from dust and moderately ventilated. The temperature must not exceed the range of -10 °C / + 20 °C.

The exceeding of these temperatures may have a shortening-life effect on the tap. If the storage is heated, the radiators and the pipes must be isolated; the distance between radiators and goods/products must be of at least 1m.

Relative humidity must not exceed the range of 50 % / 65 %.
When the device is set and operating, please look after the deliveries as much as possible, in order to assure the rotation of stocks.

7. DETECTION OF DAMAGE/RESOLUTION OF PROBLEMS AND FIXING

Emergency situations (accidents/damaging)

DAMAGE	POSSIBLE CAUSE	SOLUTION
After installation, leakage from sleeve	PTFE tape has not been applied	Apply PFTE tape on the sleeve thread (4) (Pic.2.1→ chap.2 installation)
	The quantity of PTFE tape applied is not enough	Remove the previously applied tape and apply it again properly
The flow is irregular	The sprayer has been damaged/it is not in the right position	Replace the hose connector group (RA9598AD31)
After installation, alluminium lever is unstable when opening/closing (art. 598)	The tightening screw came loose	Tighten again the screw (5) (Pic.2.1→ chap.2 Installation) using the specific key (ch. 5,5 mm)
After installation, stell lever is unstable when opening/closing (art. 599)	The tightening nut came loose	Tighten again the nut (6) (Pic.2.1→ chap.2 Installation) using the specific key (ch. 13 mm)
After installation, leakage from hose connector group	The sealing or a component of the hose connector group has been damaged	Replace hose connector group (RA9598AD31)
	The hose connector group came loose/it has not been tightened correctly	Tighten again the group (2) (Pic.2.1→ chap.2 Installation)
	The seal inside the body has been damaged	Replace the entire tap
After installation, leakage from area between body and sleeve	Sealing between body and sleeve has been damaged	Replace the entire tap
Difficulty in opening and closing the tap	No lubrification/dirt/damage of internal components	Replace the entire tap
Tap doesn't open/close completely	Dirt/damage of internal components	Replace the entire tap

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8. DISMANTLING, DEACTIVATION AND SCRAPPING

At the end of the life of the tap, before disposing of it permanently, reflect on whether is possible to use it for other purposes.

If it is necessary to dispose of it, dismantle it when the system is off with the keys indicated in the chapter Installation.

Dismantling and disposing of the tap is only and exclusively responsibility of the owner, who will have to act in compliance with the law of his/her country regarding Safety and protection of the environment.

At the end of its life the product must not be recycled with urban waste. It can be brought to specific recycling centres arranged by local administrations, or to re-sellers that provide this service.

To dispose of waste by sorting the product helps to avoid possible negative consequences, resulting from inadequate disposal of waste, for the environment and health. If done correctly, the disposal allows recovery of its material to save energy and resources.