**Criterion 6. Information for the user.**

FERRO S.A. declares that the products comply with requirements of the Ecolabel criteria and provides a link to a website containing all required information.

[www.ferro.pl/](http://www.ferro.pl/)

Information presented below applies to the use of mixers in a correct and environmentally friendly manner, with a particular focus on mixers from the VerdeLine series.

Ecological solutions and products used by the construction industry are becoming more and more popular among private entities and investors, as well as designers. This is caused by constantly increasing social awareness of the importance of individual decisions for the overall impact of human activities on the environment.

It is therefore important to promote solutions to reduce human impact on the environment, mainly by reducing all kinds of emissions and using natural resources more effectively.

Studies indicate that as much as about 50% of water consumption in households can be attributed to sanitary fittings, and more than 30% to toilet flushing.

Innovative solutions for sanitary fittings, in particular of our VerdeLine series, can:

- reduce water consumption,

- reduce demand for energy,

- reduce emissions.

**The following mixers manufactured by FERRO S.A. have been granted the EU Ecolabel: CASSINO models (BCS2VL, BCS2LVL, BCS4VL), VENETO models (BVN2VL, BVN2LVL, BVN4VL), GENOVA models (BGE2VL, BGE4VL).**



This label indicates fulfilment of a number of criteria related to ecological and innovative approach to products.

These products meet criteria concerning raw materials used in their manufacture, which are supported by adequate certificates and approvals of other European Union countries and attestations of the National Institute of Hygiene in Poland, as well as criteria related to maximum water flow rate.

**Maximum flow rate for each type of mixer is as follows.**

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Code | Maximum water consumption at a dynamic pressure of 0.3 MPa according to PN-EN 817 standard | |
| Flow with a flow regulator | Maximum flow rate |
| **CASSINO** | BCS2VL | 4.7 l/min | 4.9 l/min |
| BCS2LVL | 4.7 l/min | 5 l/min |
| BCS4VL | 5.5 l/min | 6.1 l/min |
| **VENETO** | BVN2VL | 5.3 l/min | 6.2 l/min |
| BVN2LVL | 4.8 l/min | 6.2 l/min |
| BVN4VL | 5.5 l/min | 6.1 l/min |
| **GENOVA** | BGE2VL | 4.8 l/min | 6.2 l/min |
| BGE4VL | 5.1 l/min | 6.2 l/min |

Please note that long periods of drinking water stagnation (e.g. water used in the morning or after long periods of absence from home) in the water system and sanitary fitting can lead to the growth of microorganisms and bacteria. Therefore, water should not be ingested after each long period of stagnation.

In order to avoid wasting potable water after a period of stagnation, it should first be used for toilet flushing, showering or watering the garden.

**User manual**

**Assembly and handling instructions**

**1. Rules of proper maintenance of the tap**

The tap’s surfaces should be cleaned with water and soap, and then wiped and polished with the use of a soft cloth. Cleaning agents or materials containing friction substances or aggressive substances (affecting the products in liquid, solid or gaseous form), including cleaning agents based on chlorine, whiteners, limescale removers and domestic hygiene agents containing acids, solvents or other surface-active agents, as well as alcohols, disinfectants or alkalis.

**1.1 Maintenance**

The proper operation of one-and two-handle taps largely depends on the water quality— its hardness, calcium saturation and the content of pollutants, such as sand, scale, etc. The water quality influences the frequency of performing necessary maintenance operations by the User. The periods between maintenance operations can be extended by the use of mesh filters mentioned in the point 3 and in the Guarantee Terms.

**1.2 Cleaning the stream regulator**

The stream regulator (fig. 3) should be cleaned in the event of water-flow reduction:

- unscrew the stream regulator (7) and clean it with a jet of water from the outflow side,

- while screwing in the regulator ensure the gasket is fixed properly,

- if the regulator cannot be effectively cleaned, it should be replaced with a new one.

**1.3 Cleaning the tap’s cartridge (head)**

The tap’s cartridge (head) should be cleaned at least once every half a year, depending on the water quality, in the following way:

- cut off the flow of cold and hot water through the valves connected to the tap,

- remove the plug from the lever and loosen the screw fixing the lever with a hex wrench,

- remove the lever from the pivot of the tap’s cartridge and remove the ornate casing manually,

- unscrew the nut fixing the tap’s cartridge,

- remove the tap’s cartridge — clean the accumulated impurities with a jet of water,

- grease the moveable parts with silicone lubricant,

- assemble the unit performing the above operations in the reverse order, ensuring the head gasket is properly fixed,

- tighten the head’s nut with a torque of 6 – 10Nm.

**1.4 Maintenance of a push-up type drain popup**

The system should be cleaned at least once every two months or whenever difficulties in functioning occur:

- unscrew the top casing of the plug,

- remove impurities in all elements of the plug,

- grease the movable parts with silicone lubricant.

**Technical data**

Maximum pressure **1 MPa**

Recommended pressure **0,1\* – 0,5 MPa**

Maximum hot water temperature **90°C**

Recommended hot water temperature **65°C**

\* Some flow water heaters will not operate, if the water pressure is below the set value specified in the Operation manual of the heater.

**2. Handling taps with a standard head or VerdeLine models.**

**2.1. Standard ceramic heads:**

Taps with standard heads allow fast and easy regulation of both the water-flow and temperatures using one handle.

**2.2.VerdeLine tap cartridges**

**2.2.a Flow limiter**

VerdeLine taps have a cartridges with a mechanical flow limiter. The range of its effect is described by a mechanical blockade in the cartridge. When raising the handle, resistance serving as a measure of limiting the flow can be felt (fig. 1 — item 2). The placement of the handle on fig. 1: 1 — inflow closed; 2 — flow limiting position; 3 — maximum flow.

**2.2.b Regulation of hot water flow (temperature limiter – fig. 2)**

**By default, the temperature limiter is set in position “1”. Regulation of the amount of hot water flowing into the cartridge from position “1” to position “2” is done in a 60**° **range** (one dentil on the limiter’s red ring is equal to turning the limiter by 6°). It should be remembered to properly connect the water: hot on the left side of the tap and cold on the right (from the front of the tap).

**Position 1** — the default setting (maximum flow of hot water to the tap’s cartridge)

**Position 2**— limited flow of hot water to the tap’s mixer

To change the temperature setting:

* disassemble the tap’s cartridge following the instructions in point 1.3,
* raise the limiter’s red ring and turn it in the direction of the arrow and the “-“ (minus) symbol selecting the proper setting,
* assemble the cartridge again, following other instructions in point 1.3,
* check the functioning of the flow limiter and the cartridge.

**3. Assembly**

The taps should be assembled by persons with appropriate qualifications. The assembly operations should be carried out according to best practices and the instructions given in this document. Wrenches used for assembling the devices should be non-clamping tools with smooth jaw surfaces. In order to ensure long and reliable operation of the tap the water-pipe system should be equipped with at least mesh filters or, if that solution cannot be applied, with individual cut-off valves with filters designed for the tap. Failure to comply with the above condition shall void the guarantee for the head. The tap should be assembled in place and in a way enabling easy access to the device during maintenance, repair or disassembly operations. Installing the tap in places with difficult access or fixed housings makes maintenance operations or guarantee repairs impossible.

**3.1 Standing taps**

Standing taps (fig. 3) should be installed with the use of the fixing set:

- screw in the connection hoses (2) and the fixing screw (5) to the tap,

- the connection hoses should be screwed in manually, up to the point when resistance occurs. The hoses should be installed according to the schemes presented in figure 8. Screwing in the hoses strongly with the use of a flat wrench can result in damage to the hoses! Some forbidden methods of installing the hoses are presented in figure 7.,

- insert the tap with the bottom gasket (6) into the mounting hole,

- put the gasket (4) and the washer (3) on the fixing screw,

- screw in the fixing nut (1) on the fixing screw,

- connect the ends of the hoses to the sections of the cold and hot water supply system so cold water is connected to the right side of the tap and hot water to the left side (from the front of the tap),

- after assembly check the tightness of the connections,

In case of standing sink taps with an extended hose, connect the spray handle with the hose, fix the weight to the hose and screw in the hose connector to the pipe in the unit’s body. The other assembly operations should be carried out as described above.

This EU Ecolabel product is intended for domestic use.

Product is not intended for repeated and frequent use for non-domestic purposes (e.g. as a part of public water systems in schools, offices, hospitals, swimming pools).

**UWAGI DLA GRAFIKA:**

**- przy samych rysunkach nie używać słowa „rys” tylko jakiegoś oznaczenia międzynarodowego, w kwadraciku lub podobnego. Patrz dowolna instrukcja sprzętu AGD lub IKEA**

**- poniższe rysunki są tylko do ogólnego rozeznania. W rysunku 6 dodać kółeczka ze strzałkami i numerkami wg szkicu.**

Rys.1 Rys.2 **UWAGA** **DLA GRAFIKA** – usunąć słowa „NASTAWA” z rysunku



Rys.3



Rys.7 **UWAGA DLA GRAFIKA** dodać widoczny znaczek przekreślenia przy rysunku np.🗷

Rys.8 **UWAGA DLA GRAFIKA** dodać widoczny znaczek typu OK, np.🗹