

- włożyć do nakrętek przy czyszczeniach (4) uszczelki (3) i nakrętki je na mimo rudy lub nasunąć baterie na mimo rudy mocowane na o-ring (w modelach baterii wyposażonych w takie mimo rudy) i zblokowana je od spodu korpusu baterii podwojnymi wkładkami na klucz imbusowy.

- po zamontowaniu sprawdzić szczelność połączeń.
- 3.3.1 Zespój spustowy z ujęciem wody sterowany (rys. 5)
 - zająć poziom (5) do zestawu spustowego,
 - zaizolować zespół spustowy tak, aby przy poziomie (5) był skierowany w stronę otworu montażowego baterii,
 - przy zamknięciu tym korku spustowego (1) i górnym położeniu przekaźnika (5) wyregulować korek spustowy (1) tak, aby uzyskać luz około 2 mm pomiędzy korkiem (1), akośkami przy poziomym widoku pod korkiem (1),
 - zamontować baterie wraz z przekaźnikami (4) w otworze montażowym,
 - wsunąć przekaźnik (4) w złącze (2) i ustawić tak, aby przy poziomie (5) był w położeniu dolnym, a otwarcie korka było wystarczające.
 - dokręcić rub (3) przy poziomie (5) i sprawdzić prawidłowość działania korka spustowego oraz szczelność.
- 3.3.2 Zespój spustowy z ujęciem wody typu push-up
 - zaizolować zespół spustowy do umywalki.
 - Kolejne nacięcia korka na przemian otwierają i zamykają odpływ wody z umywalki.
- 3.4 Baterie trybóworowe
 - Zamontować elementy baterii przy wannie (rys. 6). Podjąć wodę w następujący sposób:
 - kośki wyciągnąć (2) z gwintem M10x1. G1/2 do mieszacza baterii i odcinaków instalacji zasilać wodę zimną i ciepłą w ten sposób, by woda zimna była podjęta od prawej strony, a woda ciepła od lewej strony (patrz c na cz. z mieszaczem od frontu),
 - woda zmieszana z mieszaczem do wylewki poprzez wyciągnięcie (3) M12x1xG1/2 - 35 cm,
 - woda zmieszana do wylewki do rączki natrysku poprzez wyciągnięcie (4) G3/4xG1/2 - 40 cm i wyciągnięcie (1),
 - cięgnięcie wylewki (5) przez czyszczenie wody - podniesione do góry daje wypływ wody przez rączkę natrysku, cięgnięcie opuszczone na dół daje wypływ wody przez wylewkę. Przed wyciągnięciami (2) należało zamontować filtry siatkowe, zalecane z zaworkiem odcinającym, lub sam filtr siatkowy z uszczelką.
 - Po zakończeniu montażu baterii należy do niej zapewnić swobodny dostęp w celu konserwacji, naprawy lub demontażu.

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Guarantee Terms
 1. Ferro S.A. (The Guarantor) gives a 5-year guarantee for the failure-free operation of the tap's head and body and a one-year guarantee for other parts of the tap. For taps with the Ecolabel mark, the guarantee period for the other parts of the tap is 4 years. The guarantee period starts on the purchase date confirmed by the appropriate purchase document. The guarantee period cannot be longer than 7 years from the production date of the tap specified in the guarantee certificate. The guarantee and services are limited to the territory of the Republic of Poland. In matters regarding the guarantee abroad, the seller or local service centre should be contacted.
 2. Defects in the product detected during the guarantee period will be eliminated free of charge in the period not longer than 14 days from the date of submitting the complaint.

3. The guarantee certificate is void without a date, confirmed with the seller's seal.
 4. Complaints should be submitted to the sales point or directly to the Guarantor. The complaint documents must include the copy of the purchase document, a properly filled guarantee certificate, a description of the defect and the User's data, enabling contact with the User in order to carry out the repair.
 5. In case the defect cannot be eliminated, the Guarantor can replace the product with a new one (same model or equivalent) or refund the purchase price. The refund can be made only by the sales point where the product was purchased.
 6. The Guarantor reserves the right to select the place where the defect will be removed: at the place where the tap is installed or at the guarantor's headquarters. In the latter case, the User must provide (at the Guarantor's expense and after prior arrangements) the product, properly secured for transport, to the designated place.
 7. The guarantee does not cover:
 a) defects resulting from failing to follow the instructions given in the assembly and operation manual,
 b) mechanical damage to the product and defects resulting therefrom,
 c) damage caused by the pollution of water or the water-pipe network,
 d) the products in which construction changes or modifications were made by persons other than the manufacturer.
 8. The guarantee for the head is given on the condition that the filters are installed in all taps.
 9. The guarantee for parts and elements that become worn out during normal use (e.g. gaskets) is given on the condition that they undergo regular maintenance according to the producer's instructions.
 10. The term "removing the defect" does not cover maintenance operations that should be carried out by the User.
 11. In case of any guarantee repairs made by the Guarantor's Service at the place of the tap's installation, the User must ensure free access enabling the repair, disassembly and assembly of the taps. All work connected with ensuring the proper access to the tap (removing housings, covers, etc) must be done by the User before starting the guarantee operations and at the User's expense. Failure to comply with the above provisions shall result in refusing to perform repairs.
 12. The guarantee period is extended by the repair time, counting from the date of submitting the complaint to the day of removing the defect.
 13. In case of reporting a defect not covered by this guarantee, the Guarantor reserves the right to charge the Reporting Person with the costs resulting from the guarantee actions taken.
 14. The Guarantor and the Producer are not responsible for damage or improper functioning of the tap and its subcomponents resulting from not following the assembly, maintenance and usage instructions. Also, they are not responsible for any losses resulting directly or indirectly from negligence, damage, improper installation or usage in conditions other than the recommended ones.
 15. The guarantee for the consumer product sold does not exclude or limit the purchaser's rights resulting from the product's non-compliance with the contract.

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.

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, lime-scale 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 - 10 Nm.

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 moveable parts with silicone lubricant.

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

2.2.1 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.

2.2.2 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 90° range (one dent 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 mixer). 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.

2.3 Additional information for products with the Ecolabel mark can be found at www.ferro.pl

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