

SAFETY INSTRUCTIONS – ZORO sanitary tapware
In accordance with the requirements of Regulation (EU) 2023/988 on General Product Safety (GPSR)

I. Introduction

This manual contains information on the safe use, installation, and maintenance of ZORO sanitary tapware. Please read this manual carefully before using the product and follow its instructions. Failure to follow the instructions contained in this manual may result in product damage, serious hydraulic failures, and a health hazard to users, as well as grounds for invalidating warranty claims.

The manufacturer is not liable for any damage resulting from improper installation or use of sanitary tapware contrary to the instructions.

II. Product information

1. Product group name

Zoro brand sanitary tapware

Manufacturer: ZORO Sp. z o.o. with its registered office in Opoczno; address: ul. Piotrkowska 199, 26-300 Opoczno, Poland

Model Number: According to the code on the label

2. Characteristics of the product group

ZORO sanitary tapware is used to equip sanitary appliances in personal hygiene rooms and kitchens, to transport and draw off cold and hot water suitable for human consumption, and to remove water from sanitary appliances. This product group includes mixing valves, mixing sets, and waste fittings for sanitary appliances.

III. Precautions

1. Assembly instructions

Detailed assembly and use instructions are included with the product. Please read them carefully.

Recommendations:

Sanitary tapware should be installed by a qualified person, in accordance with applicable regulations. Before installation, shut off the water supply to the system. Ensure that the water pressure in the system is between 0.5 and 6 bar, under normal operating conditions, and periodically does not exceed the value of 10 bar. Avoid using aggressive sealants or adhesives, which may damage the surface of the fixture and other components.

2. Instructions for use

Do not use sanitary tapware in a manner inconsistent with its intended use and the guidelines contained in this manual. Avoid sudden changes in water temperature to prevent the risk of scalding. Children and people with limited manual skills should use sanitary tapware under adult supervision. If a leak or damage is detected, discontinue use immediately and contact technical support. Do not leave sanitary tapware in sub-zero temperatures or use it to transport media other than water suitable for human consumption.

3. Maintenance and cleaning instructions

Limescale deposits should be removed regularly using gentle cleaning agents. Avoid using abrasives, solvents, or hard brushes, which can damage the surface of the sanitary tapware. Filters and aerators should be cleaned at least every three months to prevent scale and bacteria buildup and reduce water flow. Detailed product maintenance requirements are described in the warranty card, which should be read carefully.

4. Safety instructions

- ZORO sanitary tapware should be used in accordance with their declared intended use, described in point II.
- The precautions described in section III should be followed.
- If the product has detailed operating instructions, they must be followed strictly.
- If the product has a manufacturer's warranty, it must be adhered to.
- Products from the ZORO sanitary tapware group do not pose a threat to children and people with disabilities if used in accordance with the provisions of this manual.

5. Procedure in case of failure

In the event of a leak, immediately turn off the water supply. If the sanitary tapware is not functioning properly (e.g., problems with temperature regulation), check the condition of the valves and water filter. If the product is covered by the manufacturer's warranty, proceed in the event of a failure in accordance with the warranty. In the event of a failure, it is recommended to contact an authorized service center.

IV. Risk assessment

1. Usage Risk Analysis

The purpose of the risk analysis is to identify and assess potential hazards associated with the use of ZORO sanitary tapware and to determine actions to minimize these hazards.

- Risk of scalding with hot water

During the use of sanitary tapware, hazards may arise under applicable Polish law, i.e. the „Obwieszczenie Ministra Rozwoju i Technologii z dnia 15 kwietnia 2022 r. w sprawie ogłoszenia jednolitego tekstu rozporządzenia Ministra Infrastruktury w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie” (Dz.U. 2022 poz. 1225, as amended), according to which hot water in the distribution pipework and at the draw-off point should be at a sufficiently high temperature to prevent the growth of harmful bacteria. Depending on the type of building, this may be a maximum of 60°C during normal operation and 80°C during periodic thermal disinfection of the installation. In both cases, this temperature can cause scalding. In addition, the maximum operating temperature for the offered products is 70°C, except for drain sets and plugs, for which the maximum operating temperature is 95°C.

Table 1 summarizes the results of the analysis of the risk of scalding with hot water.

Table 1. Hot water scalding risk analysis

Risk No.	Danger	Potential effects	Probability P (1-5)	Effects S (1-5)	Risk Level (P x S)	Remedies
1	Hot water scalding	Skin scalding, pain	3	4	12	Described below
2	Use by children without adult supervision	Accidental activation, skin scalding, pain	3	5	15	Water flow restrictor

To prevent scalding, appropriate precautions should be taken when using sanitary tapware, depending on its type:

- In the case of thermostatic mixing valves, the temperature controller should be set to an appropriately low value. We recommend setting the recommended value specified in Polish law, i.e. the „Obwieszczenie Ministra Rozwoju i Technologii z dnia 15 kwietnia 2022 r. w sprawie ogłoszenia jednolitego tekstu rozporządzenia Ministra Infrastruktury w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie” (Dz.U. 2022 poz. 1225, as amended), for buildings intended for collective occupancy of children and persons with disabilities, specified in § 302, section 4: *“In buildings intended for collective occupancy of children and persons with disabilities, thermostatic mixing valves with a maximum temperature limit of 43°C and in shower systems to 38°C should be used in hot water systems, to prevent scalding”*. These are comfortable values and protect against scalding.
- In the case of mechanical mixing valves not equipped with built-in thermostatic temperature controllers, we recommend installing separate thermostatic mixing valves and setting the appropriately low mixing temperature on them, as indicated above.

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- The above recommendations apply to sanitary tapware installed in systems where hot water is not prepared using gas flow-through boilers. In systems with such devices, the use of thermostatic temperature controllers is not recommended. This is due to the specific operation of these devices, which, by regulating the ratio of hot and cold water flows to achieve the appropriate temperature after mixing, can reduce the hot water flow so much that it causes the boiler to turn off. In such systems, the maximum hot water temperature should be set using the water flow controller and/or the gas power/flow controller on the boiler.

b) Risk of water consumption

ZORO sanitary tapware has the required legal approvals for use in systems intended for the transport of water intended for human consumption, including Polish PZH-PIB approvals. They are made of materials that do not affect water quality under standard and reasonably foreseeable conditions of use. However, it should always be remembered that water in the system may contain substances and microorganisms that negatively affect its quality, resulting, for example, from neglected maintenance and inspections of the system and distribution pipework. Therefore, it is important to ensure that the water in the system is fit for human consumption and to regularly perform the required inspections and maintenance of the system and distribution pipework.

Table 2 summarizes the results of the water consumption risk analysis.

Table 2. Water consumption risk analysis

Risk No.	Danger	Potential effects	Probability P (1-5)	Effects S (1-5)	Risk Level (P x S)	Remedies
3	Water pollution	Possible health risk	2	4	8	Described above

c) Risk of water leakage

ZORO sanitary fittings are tested for compliance with relevant European and Polish product standards, including – depending on the product – PN-EN 817, PN-EN 1111, PN-EN 1112, PN-EN 1113, and PN-EN 274-1, and meet their requirements, including tightness requirements. This is maintained within the temperature and pressure ranges specified in accompanying documents, national declarations of performance, and labels. Leaks may occur if these values are exceeded or if improperly installed. To prevent this risk, follow the instructions for use and installation and do not exceed these parameters.

Table 3 summarizes the results of the water consumption risk analysis.

Table 3. Water leak risk analysis

Risk No.	Danger	Potential effects	Probability (1-5)	Effects (1-5)	Risk Level (P x S)	Remedies
4	Water leak	Flooding of the room	1	4	4	Described above

2. Risk minimization measures

To minimize risks and ensure safe use, the manufacturer has implemented the following solutions:

- Temperature regulation – use of a thermostat to limit the water temperature.
- High-quality materials – all components are corrosion-resistant and have hygiene certificates.
- Instructions for use and installation – available to users and installers.
- Quality control system – each product undergoes strength and tightness tests.
- Cleaning and maintenance – manufacturer's recommendations for regular cleaning.
- Approvals and standards – the product meets the requirements of Polish and European product standards (mentioned earlier) and the requirements of the RoHS Directive 2011/65/EU and the GPSR Regulation 2023/988.

V. Conclusions and recommendations

This product is safe to use provided the instructions in this manual and the warranty card are followed. Regular maintenance and the use of water filters are recommended to minimize the accumulation of limescale and organic deposits (microbial residues). The highest risk level (15) associated with the use of sanitary tapware is accidental activation by children, so the use of safety blockages are recommended for models intended for homes with children.

VI. Compliance with regulations and standards

The product meets the requirements specified in:

- Regulation (EU) 2023/988 on general product safety (GPSR),
- RoHS Directive 2011/65/EU – restriction of hazardous substances in the product,
- National and European standards for sanitary products.

In case of any questions regarding the general safety of use of our products and the requirements arising from Regulation (EU) 2023/988 of the European Parliament and of the Council of 10 May 2023 on general product safety, amending Regulation (EU) No 1025/2012 of the European Parliament and of the Council and Directive (EU) 2020/1828 of the European Parliament and the Council, and repealing Directive 2001/95/EC of the European Parliament and of the Council and Council Directive 87/357/EEC, please contact us using e-mail address gpsr@zoro.com.pl, using phone number (+48) 730 605 106, or using traditional mail with the following address:

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26-300 Opoczno, Poland

VII. Contact details and service

In case of any general questions regarding our offer, please contact us at customer service department using e-mail address dok@zoro.com.pl, using phone number (+48) 730 605 106, or using traditional mail with the following address:

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In case of any questions regarding the technical aspects of our products or need service, please contact our technical department using e-mail address dok@zoro.com.pl, using phone number (+48) 730 605 106, or using traditional mail with the following address:

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