

USER MANUAL

**WEDGE-SHAPED GATE
VALVE zGAT**

Fig. 111

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TABLE OF CONTENTS

1. Product description
2. Requirements for maintenance staff
3. Transport and storage
4. Function
5. Application
6. Installation
7. Operation
8. Maintenance and repair
9. Decommissioning
10. Warranty conditions



Fig. 111

1. PRODUCT DESCRIPTION



The gate valves have permanent marking. Marking facilitates technical identification and includes:

- nominal diameter DN (mm),
- nominal pressure PN (bar),
- identification of the body and cover material,
- symbol of the manufacturer,

2. REQUIREMENTS FOR MAINTENANCE STAFF

Staff assigned to assembly, operating and maintenance should be qualified to perform this work. In case of using mechanical actuators for valve, their operating manual must be observed.

3. TRANSPORT AND STORAGE

Store in closed and dry room.

4. FUNCTION

Gate valves feature shut-off function, i.e. they should operate in fully closed or fully open position.

5. APPLICATION

Designed for potable water systems, sewage systems, food industry.

6. INSTALLATION

Handle with due care.

Valves should be lifted by means of safety straps and hook (Fig. 1).

Before mounting, make sure that the pipeline is clean and free from any foreign material such as earth, stones, etc.

If mounted in a manhole, install suitable outfall and drain.

When installing gate valves with a diameter above DN 200, it is recommended to use dismantling interface to facilitate

assembly/disassembly.

Tighten the screws with cross method, distributing pressure evenly until the valve body contacts with flanges.

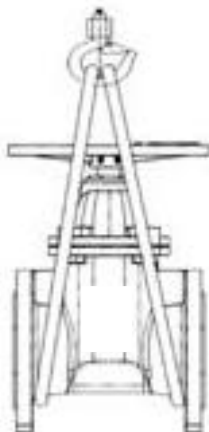


Fig. 1

TEMPERATURE	T _{min} °C	T _{max} °C	T _{short-term}
EPDM	-10	+40	+80

Maximum pressure	
Liquids other than dangerous	0-16 bar DN40-300

When working with any liquid other than listed, contact the manufacturer to determine compliance and operating conditions.

7. OPERATION



Do not leave the water-filled valves in locations where temperature may drop causing the freeze, if there is no liquid flow. In this case, empty the pipeline.

Water hammers can cause damage or breakdown. Prevent them from occurring or install flexible connectors to reduce the effects of water hammers. In order to ensure long life and full efficiency of occasionally operated valves, a test run should be carried out once a year.

8. MAINTENANCE AND REPAIR

ZETKAMA gate valves with rubber wedge meet the requirements of ISO 7259 standard. This allows the replacement of the control shaft seals without removing the valve and when the installation is under pressure.

1. Open the valve completely.
2. Remove cover/knob by loosening the screws (1 in Fig. 2).
3. Remove the dust cover (2 in Fig. 2).
4. Pull out the sleeve (3 in Fig. 2).
5. Replace the shaft seal.
6. Reinstall the removed parts.

Interventions within other internal parts can be performed **after cutting off the line and pressure reduction**, but without having to remove the valve body.

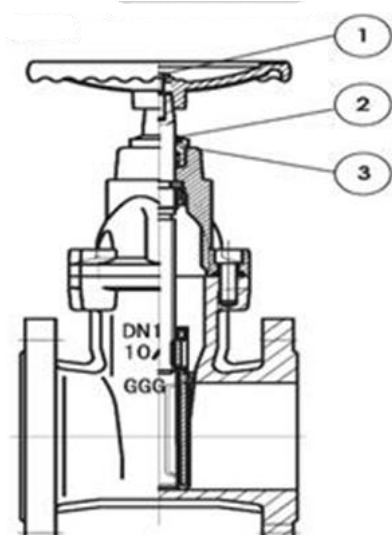


Fig. 2

9. DECOMMISSIONING

After decommissioning and dismantling the gate valves must not be disposed of with household waste. Gate valves are made of recyclable materials. Deliver them to a recycling centre.

10. WARRANTY CONDITIONS

- ZETKAMA grants warranty for proper operation of its products, provided that they are installed in accordance with the instruction manual and operated in accordance with the technical specifications and parameters described in the ZETKAMA data sheets. Warranty period is 18 months from the date of installation, but not longer than 24 months from the date of sale.

- the warranty does not cover assembly of foreign parts and design changes made by the user, neither natural wear and mechanical damage.

- the user should inform ZETKAMA about hidden defects of the product immediately after detection.
- complaint must be in writing.

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