

INSTRUCTIONS FOR USE AND GENERAL MAINTENANCE M.USO.MAN. MEDANA & VISCA S.r.l. Ed.1 Rev.4
In accordance with European Directive 2014/68/EU in accordance with modules (D+B)
Design, manufacture and marketing of valves and related accessories for the naval, oil & gas and industrial sectors in the following phases: receipt of materials, storage, mechanical processing, assembly and testing, painting, packaging and shipping. Company with Quality Management System certified according to:
UNI EN ISO 9001:2015 Certificate no. 216/95/S
Regione Girussola, 51 (Provinciale Per Valduggia) - 13011 BORGOSIESIA (VC) - Unit 1 Company with environmental management system certified according to:
Via Molino Rastelli, 9 (Provinciale Per Valduggia) – 13018
VALDUGGIA (VC) – Unit 2 UNI EN ISO 14001:2015 Certificate no. EMS_10113/S
Telephone (0163) 47777 Email info@medanaevisca.it - website www.medanaevisca.it
<p>As pressure equipment, valves can cause serious damage to property or persons if not correctly selected, installed, used and regularly maintained. External stresses on the equipment, including those caused by natural causes (wind, frost, earthquakes), must be taken into account by the system designer. For this reason, please read the following instructions carefully and follow them at all times:</p> <p>During all operations, always comply with the safety regulations applicable in the area of the system and those established by national law.</p> <ol style="list-style-type: none"> 2. Installation and maintenance work may only be carried out by qualified and trained personnel with specific expertise in the field of valves and pressure equipment. 3. Only move and lift valves using suitable equipment: do not lift valves by their opening/closing mechanisms or swing check valves by their levers (if present). 4. During storage, do not expose the valves to rain, sun or wind. 5. After a storage period of more than 18 months, all gaskets and packing must be inspected and replaced if necessary. 6. For correct operation, the valves must not be subjected to stress or tension resulting from connection to the pipe. 7. In the case of high or low temperature service, special expansion joints must be installed to avoid subjecting the valve to stresses caused by thermal variations. 8. Valves must never be used to support the pipe, which must have special support brackets. 9. Swing check valves can be installed in horizontal or inclined pipes only with the cover facing upwards. 10. Before installing a valve, check that the distance between the flanges or pipe connections is correct and visually check that the shutter is working properly by opening and closing the valve. 11. Before installation, it is advisable to clean the internal parts of the valve with compressed air; never use kerosene, solvents or other fluids. 12. The flange bolts must always be tightened in a crosswise pattern. 13. If the valves have fast-moving parts (e.g. levers or stems), it is advisable to install appropriate guards (e.g. grilles) and warning signs to prevent accidents. 14. In case of high or low temperature service, the valves must be properly insulated. 15. In the case of service with toxic or corrosive fluids, we recommend installing appropriate anti-dispersion guards on the flanges in order to avoid damage, burns or poisoning due to accidental or unintended leaks. 16. The use of lever wrenches or other devices designed to increase the force applied to the handwheel is strictly prohibited. 17. After installation, grease the stems and nuts using MoS2-based grease. Never grease valves for oxygen service. For drinking water service valves, use only greases suitable for this application and compatible with applicable laws. 18. Before starting up the system, check that all flanged connections are tight; this check must also be repeated immediately after start-up because the bolts may loosen (due to the elasticity of the materials), resulting in small fluid leaks: these leaks must be stopped immediately by tightening the bolts. 19. Gate valves are not suitable for regulating service: for this reason, they must always be in the fully open or fully closed position. 20. Protective gloves must be worn during all operations involving the handling and maintenance of high or low temperature valves. 21. In the case of toxic or corrosive fluids, special personal protective equipment (e.g. gloves, masks, clothing, etc.) must be used to avoid accidental contact with the fluid during all operating and maintenance operations, and the system designer must provide appropriate internal/external coatings where necessary (galvanising, etc.). 22. For correct and safe operation, it is necessary to check the condition of the valves at least once a year and subject them regularly to a periodic preventive maintenance programme, which must include at least: <ul style="list-style-type: none"> - Checking flanged connections; a loose bolt can cause leaks and therefore represents a risk; - Checking the valve wall thickness for erosion and corrosion: if the valve wall thickness shows a reduction or deep corrosion, the valve must be replaced immediately to avoid the risk of leaks or structural failure; - Replacement of gaskets and packing: a worn gasket (or packing) can cause leaks, with a consequent risk of damage or injury. <p>Note: For valves made of materials that are not very resistant to corrosion (in relation to the fluid passing through), maintenance intervals and checks may vary significantly and are at the discretion of the system designer. The attached maintenance interval table shows the relationship between materials, solutions and corrosion, and the appropriate inspection intervals.</p> 23. In the event of significant leaks from the gaskets or packing, these must always be replaced with new ones. Gaskets and packing can only be replaced when the valve is completely depressurised, emptied and vented. 24. The counter seal is designed to immediately stop a leak from the packing in an emergency: it is potentially dangerous to replace the packing with the valve in the counter seal position and still under pressure.

25. Replace gaskets and seals only with others of the same type and material; the use of low-quality gaskets can pose a serious safety risk and alter the original design of the valve. In this case, Medana & Visca assumes no responsibility for risks due to such modification and the consequences due to the loss of CE conformity of the product.

26. Before dismantling a valve, check that it is completely depressurised.

27. Never remove the stem or the nut with the actuator still under pressure: this would cause the stem to move outwards rapidly, with the risk of injury.

28. Before emptying a valve using the bleed plug, the pipe must be depressurised: loosening the plug while the pipe is still under pressure is very dangerous.

29. The equipment must only be used for the purposes and under the conditions specified in our technical catalogue and/or in quotations and/or order confirmations.

30. When installing valves (globe, clapet and flow-started), follow the direction of the arrow embossed on the body of the equipment, which indicates the direction of flow in the system.

31. If in doubt, please do not hesitate to contact us before carrying out any operation.

The instructions below indicate how to proceed with the disposal of the product components:

32. When disposing of the product, separate metals from other materials and assign them to the codes required by law in the country of use.

The instructions below provide guidance on the hypothetical life cycle of the product:

33. If the user strictly complies with the instructions mentioned in points (1 to 30), there is no defined product life span.

For more detailed information on installation, use and maintenance procedures, please contact us at this e-mail address:

info@medanaevisca.it - qualita@medanaevisca.it or by telephone on 0163/47777.