

MANWAYS AND MANHOLES PORTELLE E CHIUSINI

Foreword

These instructions and warnings must be provided to the personnel in charge of the installation. They must be kept and made available to the personnel operating and performing maintenance of the equipment.

All Veneta Acciai goods must be installed by qualified personnel in accordance with all the applicable laws and regulations.



Prior to the purchase of a manway or manhole, make sure they meet the operating temperature and pressure requirements and they are compatible with the product they will come into contact with after being installed on the equipment. Please refer to the technical data for each item in the Veneta Acciai catalog provided.

In case of installations in accordance with cogent Standards (PED, ADR Directive and others), the installer has to make documentation and tests like he does for the tank where these components are installed. Only if the component is certified by Veneta Acciai, the documentation is supplied together.

If you need any further specific information, please contact our technical office.

The manufacturer of the tank or reservoir must select building materials compatible with the manway or manhole and choose the appropriate gasket type according to the product contained and its temperature.

Installation

Assembly and welding operations must be carried out through specific welding procedures by qualified personnel, in accordance with the law.

In order to install the manway or manhole properly, liquid penetrant NDT must be conducted on the plating welds to guarantee the integrity and tightness of both the welding and the product.

Before installing the frame, always remove the cover with its accessories and the sealing gasket. It is advisable to disassemble the components in an orderly fashion to easily reassemble all the products in the original condition.



Never cut the frame (if needed, it might be possible after welding. The minimum height of frame must be 60 mm).

Prepare a hole for the frame according with its external size. Use a cross-shaped carpentry inside to stiffen the frame against the deformations that it would suffer due to welding to the tank. Fix the frame on 4 criss-cross points. Continue following the outer contour at set intervals. Finally, weld it connecting the fixed points at opposed sections all over the contour. This reduces the deformations caused by high temperatures during the welding process.

After the installation, make sure the frame size and shape are fully consistent with the conditions of supply.

The larger the thickness of the frame and the lower the deformation which it undergoes.

Locking

Ensure that the gasket contact surface is clean and free from dirt or debris that can compromise tightness.

Check the position of the cover. Ensure that it easily connects to the chassis and that it is centered.

Make sure the gasket perfectly adheres all over the contour.

Lightly tighten the locking devices and make sure the cover is in the right position on the frame. Manually tighten the locking devices. Do not use other accessories for this operation. Excessive tightening can compromise the integrity of the manway or manhole parts and its functionality. When several locking devices are available, it is advisable to tighten in a criss-cross pattern to ensure a more uniform tightening.



IMPORTANT



Once the manways and manholes have been appropriately tightened, do not tighten again while operating. As the internal pressure inside the tank (even if empty) varies, the consequent elastic deformation of the manway or manhole can loosen the locking devices.

DO NOT TIGHTEN THE LOCKING DEVICES DURING OPERATION.

This can cause serious damage to the manway or the manhole when the tank returns to its initial conditions.

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|  VENETA ACCIAI s.r.l. <i>lavorazione e commercio acciai inossidabili</i> Uffici e Stabilimento: 30020 FOSSALTA DI PIAVE (ve) – Via delle Industrie, 9 tel. 0421/679996 r.a. – fax 0421/679470 cap. soc. i.v. € 100.000 c.f. 00342420262 – p.i. 02972820274 www.venetaacciai.it e-mail: info@venetaacciai.it | USO E MANUTENZIONE USE AND MAINTENANCE | SISTEMA CERTIFICATO Certified System UNI EN ISO 9001 :2008  |
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Safety

Since several uses are possible, Veneta Acciai does not provide any device intended to restrict access to the equipment under pressure. The user shall provide for this measure. It is advisable to use a safety valve manufactured by Veneta Acciai in order to avoid accidental overpressure.

The user and the personnel operating the equipment must comply with all the local and corporate accident prevention regulations.



ALWAYS ENSURE THERE IS NO PRESSURE INSIDE THE TANK BEFORE OPERATING.



In the case of installations outside and under the action of the wind, the manhole or the manwaydoor must be closed with the clamping devices they have or adequately fixed to the tank to avoid damage to the parts that compose them. If left free, the covers can beat repeatedly deforming and, in extreme cases, until to break off from the supports creating very dangerous situations for people and things.

Any use other than those specified is not allowed and might result in damages to persons or the part. VENETA ACCIAI S.r.l. won't accept any liabilities for misuse.

Checks and maintenance



- Check the gaskets for warping, cracks or splits.
- Check the condition of the locking ties.
- Check for leaks, drips or damp problems.
- Keep the manway or manhole clean and prevent the build-up of dust or extraneous matter, especially between the sealing gasket and the frame.
- Check the correct tightening of the connection bolts between the various parts of the manhole cover / door.

These periodic checks must be conducted on a monthly basis in order to ensure the proper long-term functioning of the manway or manhole. Failure to do so considerably increases the likelihood of damages to the sealing gaskets, which can result in very damaging leaks.

If you notice any anomalies, promptly notify our customer service. If a component replacement is needed, only original spare parts must be used.

Warranty

Veneta Acciai S.r.l. goods are covered by a 12-month warranty from the date of supply. The manufacturer won't accept any liabilities for:



- use not compliant with the technical specifications of the product
- insufficient maintenance
- incorrect installation
- product modifications not agreed upon
- use of non-original and non-compliant replacement parts

Any of the above will render the warranty null and void. Repair/maintenance of products not covered by warranty must be provided exclusively by the manufacturer Veneta Acciai s.r.l.

Veneta Acciai S.r.l.



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