Operating and maintenance instructions for
Service valve saddle, Order No. 2701, 270, 271

1. Intended use:

Valve saddles are used for installation on the pipeline in the drinking water supply and gas sector (except Type 271 for gas). Due to the change in the rubber qualities required by the DVGW for drinking water („W270 conformity"), the seals were separated into water and gas seals.

Drinking water supply:
The valve saddles for drinking water applications are supplied with seals for potable water, which may be used up to a max. operating pressure of 16 bar.

CAUTION:
Valve saddles with potable water seals must not be used in the gas sector, as sufficient gas resistance is not guaranteed!

Gas sector:
Valve saddles for gas (except type 271) are supplied with gas-proof rubber seals. These can be used up to a max. operating pressure of 5 bar.

Valve saddles are available with the following outlet types:
1. ZAK®-outlet ZAK 46
2. Internal thread outlet 1" - 2"
3. With restraint push-fit fitting PE- / PVC-pipes d 32 – d 75

Please observe the applicable standards and regulations, accident prevention regulations and the regulations of the employers' liability insurance associations. According to DVGW regulations, valves must be installed „stress-free". Installation should only be carried out by appropriately trained personnel.
Please pay particular attention to DVGW Code of Practice W 333 for drilling water pipes, the regulations for working with asbestos cement pipes and the regulations which apply when handling gas fittings and gas pipes. When drilling gas pipes, care must be taken to ensure that the escaping gas quantity is safely discharged (according to DVGW Worksheets G 465-2 and G 459-1, as well as accident prevention regulations according to BGR 500 - previously BGV D2, previously VBG 50 „Work on gas pipes")!

2. Product description:

Valve saddles with integrated service shut-off enable lateral tapping under pressure. The shut-off is effected by turning the spindle clockwise (right).

3. Assembly:

Valve saddle (for cast iron-, steel- and AC pipes)

1. Procedure for metal pipes with a jacket near the tapping valve:

For use with water as a media, the procedure described in DVGW Code of Practice W 333 „service valves and drilling process in water supply" (as of May 1997) under Section 9.2.2 „Pipe coatings for metal pipes" must be followed. The PE coating remains on pipes according to DIN 30674-1, provided good adhesion is achieved. The extra cement mortar coating on a PE-coated pipeline should be removed from around the tapping valve site, unless the borehole wall is sealed using appropriate measures.
The cement mortar coating on cast iron pipes according to DIN 30672-2 remains on the pipe provided that it complies with the KTW recommendations, sufficient adhesion and surface smoothness as well as low mortar porosity in the area of the service valve are achieved.
For use with gas as a media, the PE jacket or other coatings in the area of the service valve must be professionally removed according to the pipe manufacturer's instructions down to the bare metal pipe surface. Any adhesive residue and unevenness on the pipe must be removed, especially in the contact area of the seal.
After professional installation of the service valve, the unprotected pipe area between the clamping strap, valve and PE coating must be properly protected by means of post-wrapping measures in accordance with the raw material manufacturer's recommendations (e.g. suitable bandages, shrink sleeve solutions).
These instructions apply unless the pipe manufacturers expressly make other recommendations for their coated pipes.

2. The surface of the pipe must be free of dirt, soil or grease.

3. Position the valve.

4. Hang the strap on one side of the saddle body and bend it around the pipe.

5. Mount the second clamp.

6. Tighten the hexagonal bolts alternately and evenly using the specified torque (60 - 70 Nm / max 100 Nm). Do not use an extension!

7. Drill a hole with a Hawle drilling machine - (observe the corresponding operating instructions)!

8. Perform pressure testing.

Note:
To screw in from the threaded connection, use the wrench face of the round thread (for the extension spindle) to hold it in place!

4. Commissioning and pressure testing:

After installation, please perform a pressure test in an open pipe trench, as described in the DVGW regulations. Open gate valve, fill pipeline and perform pressure test with unfilled trench. Valve saddles are designed for a max. operating pressure of 16 bar (water) and 5 bar or 10 bar (gas).

Order No. 271

Order No. 270

Order No. 2701

If you have any other questions or if you need more information please contact:

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