

General mounting instructions for textile-rubber oval gaskets (the so-called manholes)

Gasket:

1. **Checking the gasket.** It must be undamaged, clean and dry. Its dimensions and type must match dimensions of the areas to be sealed. The type of sealant must correspond to the operating parameters of the joint to be sealed. The shelf life of a gasket must correspond to the recommended period of storing. The gasket must be kept on a flat and horizontal surface.

Sealing surfaces and connecting material:

2. **Checking sealing surfaces of flanges.** The sealing surfaces of flanges must be clean, degreased, flat, parallel, rust-free and without any other damages. In case it shows any scratches, grooves and pressure marks, it is recommended to assess the sealing surface professionally or to renovate it using special agents so that it is again fit for installation of a sealant and subsequent operation.
3. **Checking connecting material.** Tightening screws, nuts and pads must be clean, rust-free, undamaged and suitably lubricated in threads and on contact surfaces. It is recommended to use screws with the same quality. Do not use damaged screws and nuts.

Installation of sealant:

4. This type of gasket is less predisposed to installation mistakes. In spite of that we recommend to abide by the below mentioned instructions.
5. The gasket should be correctly put on a more suitable side of the sealed joint to prevent undesirable slackening of the gasket. For correct putting in more complicated applications it is not recommended to use various fixation adhesives and graphite pastes (they cause movement and slipping of the gasket). The sealant must be protected against weather conditions during installation. For sealing of large dimensions it is recommended to handle it with the assistance of several trained technicians. It is necessary to pay particular attention when putting and installing the counterpart of the sealed area so that to prevent any damage to the gasket.

Tightening

6. Tighten the screws manually by fingers first. Then, tighten them well cross-wise gradually in 3 steps to values 30, 60 and 100 % of the recommended tightening torque at installation. "Cross-wise" tightening has to be observed with 4 or more screws. After it is 100% tightened and operational parameters are started, it is recommended to check these values after 24 hours and tighten well the screws to 100% tightening torque, if need be, after the operational values are abandoned, provided the situation allows it.
7. The maximum permitted compressional stress must not be exceeded when tightening.
8. It is most suitable to use for tightening a torque wrench and hydraulic or pneumatic tightening tools. Tightening without checking the tightening torque is not recommended, because it does not guarantee observance of the tightening torques (beware of calibration). Tightening without checking is possible only for undemanding operating conditions (low pressure, low operating temperature of media and low tightening stress at installation).
9. After a joint is warmed up to the operating temperature, it is recommended to carry out enhanced check of tightness of the joint during first 48 hours.



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