

Assembly information for flange-insulation-seals: IsoSeal D300 PTFE compact

IsoSeal insulation-seals are high quality functional elements in flange insulation systems, which ensure both, a safe sealing against the media gas, oil, fuel, water, hotwater and steam and a safe electrical separation of the piping parts.

All **IsoSeal D300 PTFE compact** insulation-seals are conceived as direct force loaded gaskets and consist of an electrically isolation non thermosetting plastic (duroplast) material as a seal carrier and an PTFE sealing in the inner side.

For a perfect function of the **IsoSeal D300 PTFE compact** insulation-seal the following is to be considered when assembling.

Important advance information:

The PTFE sealing in the inner side of the insulating gasket is an important part of the insulation gasket system and is not only a transportation-protection.

1. The raised faces of the flanges have to be clean, free of score marks and flashes in order to meet the standards of DIN / ASME (DIN EN 1092-1 B1: Rz_{max.} = 50 µm).
2. The PTFE sealing bulge may not be damaged. The PTFE cover consist of a soft flexible and compressible material, which has to be handled **with care**.
3. The **IsoSeal D300 PTFE compact** insulation seal has to be installed congruently with the DIN oder ASME flanges.
4. For a perfect function of the electrical insulation of the flange connection it must be paid attention during the assembling of the insulation-stutbolts. The flange screw drillings and the insulation seal **IsoSeal D300 PTFE compact** must be aligned properly.
5. The flange stutbolts in principle can be loaded up to 10% below their yield strength. A damage of the **IsoSeal D300 PTFE compact** by overloading the bolt force cannot occur. The tightening torques you may take from the table in the appendix or by an specific stutbold-calculation.
6. Assembling the stutbolts, please assure sufficient lubrication of the friction surfaces (thread, screw head/nuts on steal-washers).
7. **Very important!** The tightening torque have to be controlled after *the first warming up* of the flangesystem and must be retorqued to the proper values.

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