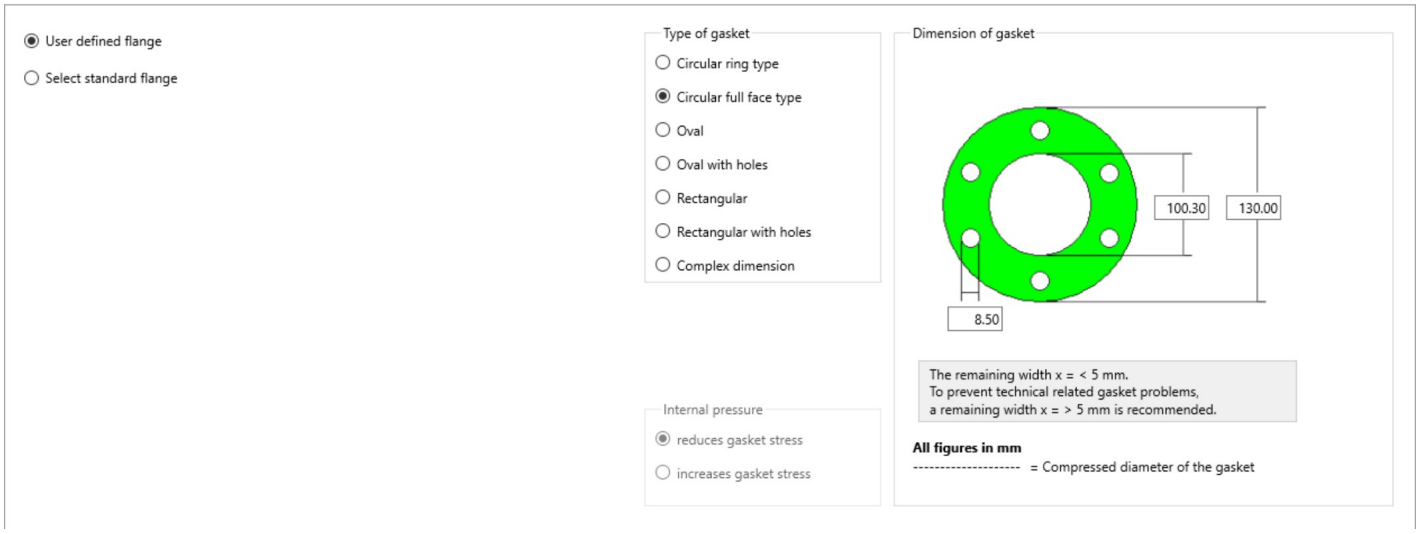
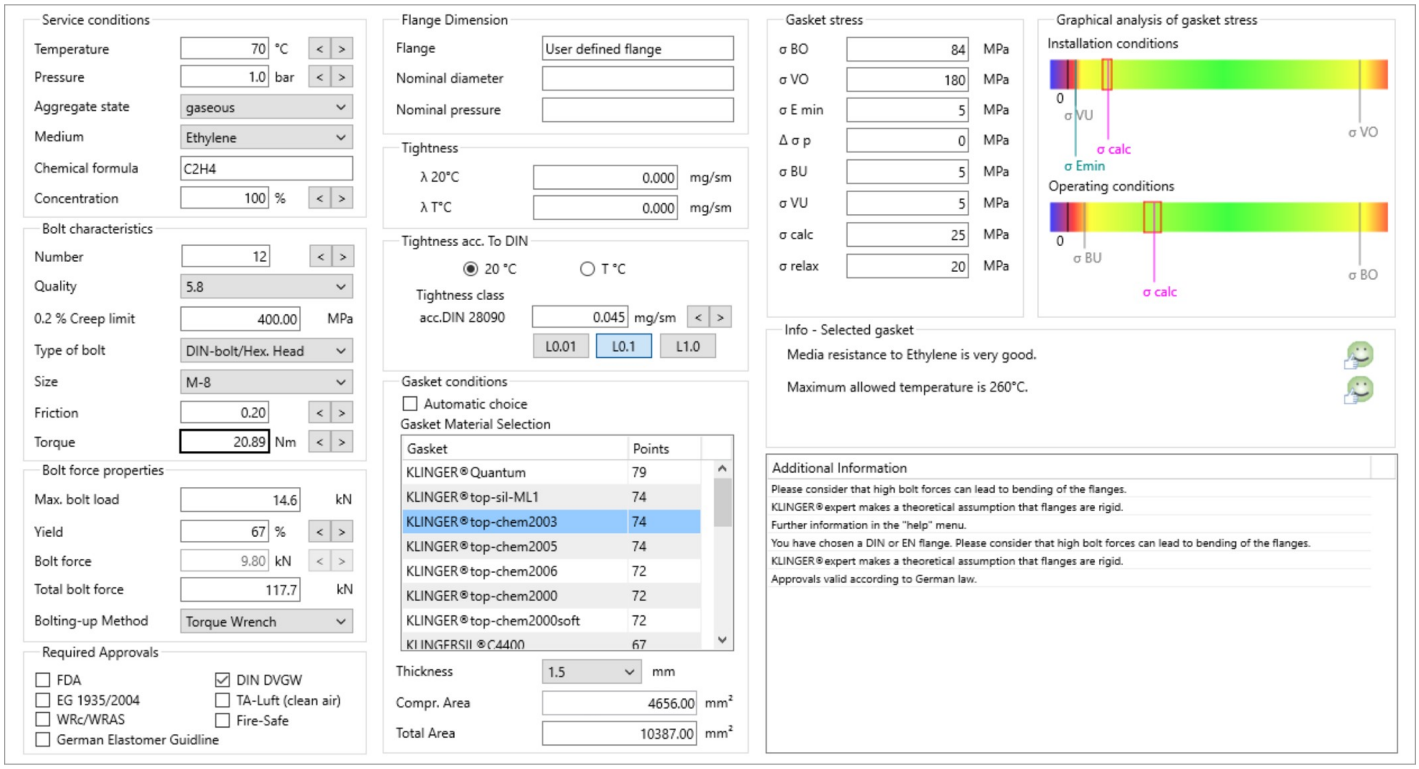
Gasket material KLINGER®top-chem2003





Disclaimer

The characteristic values on which the gasket calculations are based have been derived from the latest research in the Klinger laboratories and to the best of our knowledge and judgement.
Further investigations in this field will make future updates of the calculational values and procedures possible.
The values and parameters calculated with KLINGER®expert are based on a static calculation of the information provided, such as temperature, pressure, bolt loads, etc.
An explicit calculation of the actual conditions, which takes account of plant-specific boundary conditions, such as load change behaviour, additional piping forces, flange bending, etc., is not possible because of the complexity of the relationships.
For these reasons, the establishment of any guarantee claims, of any nature whatsoever, for the functionality of flange connections with gaskets which are calculated with KLINGER®expert is not possible.

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Additional Information

Please consider that high bolt forces can lead to bending of the flanges.
KLINGER®expert makes a theoretical assumption that flanges are rigid.
Further information in the "help" menu.
You have chosen a DIN or EN flange. Please consider that high bolt forces can lead to bending of the flanges.
KLINGER®expert makes a theoretical assumption that flanges are rigid.
Approvals valid according to German law.

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Own Comment

Actual Max Pressure is 0.5bar Software will only allow 1bar input so leak potential is less.

The bolt grade selected for this material is very close to the figures on the spread sheet.
Therefore, no adjustments to the results are required.

At 21Nm, both torque and bolt load values are below the max recommended values shown on the TSF datasheet .

Ethylene Oxide is not availble for the selection so Ethylene is used. This has smaller molecules so leakage calculation is safe.

The gasket material is PTFE that is generally recognised to be extremely resistant to Ethylene Oxide.

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