

Swiss competence in High Vacuum Bellows

kompaflex ag




WELDING & TESTING

OUR QUALIFIED TEAM USES THE LATEST TECHNOLOGIES AND PROCESSES IN ORDER TO MEET THE HIGH QUALITY STANDARDS FOR ULTRA HIGH VACUUM APPLICATIONS.

IN-HOUSE TESTING FACILITIES

- Helium leakage testing up to 10^{-10} mbar \cdot l / sec
- Life cycles testing
- Pressure tests up to 700 bar
- X-ray, Ultra sonic tests
- Special packaging for ultra high vacuum bellows

WELDING COMPETENCES

- TIG welding
- Plasma welding
- Welding without any gaps
- Manufacturing in kompaflex pressurized clean room



Single walled universal vacuum expansion joint



Fatigue life test under vacuum and temperature 150° C for IPP Wendelstein 7-X



Helium leakage testing in the kompaflex own clean room



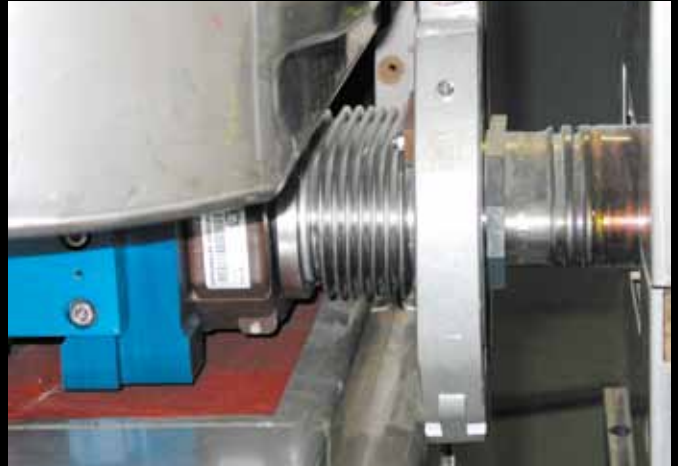
Water pressure test of expansion joints for a Nuclear Plant

VACUUM REFERENCES

KOMPAFLEX OFFERS A WIDE RANGE OF ROUND, RECTANGULAR, OVAL AND ELIPTIC BELLOWS WITHOUT ANY WELDING SEAMS IN THE CORNER AREAS.

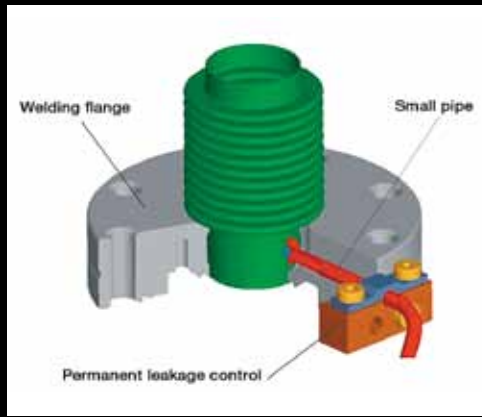
CERN

Oval and rectangular expansion joints installed at the LHC CERN



MAX PLANCK INSTITUTE OF PLASMAPHYSICS – FUSION REACTOR WENDELSTEIN 7-X

- Delivery of over 300 multiply expansion joints connecting the ports to the reactor.
- Round, oval and rectangular forms in different sizes.



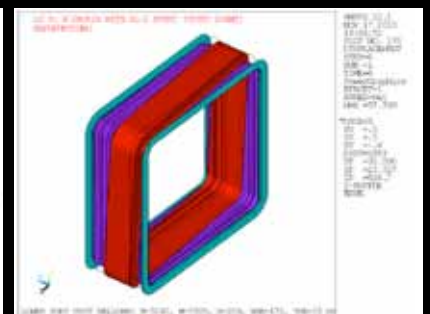
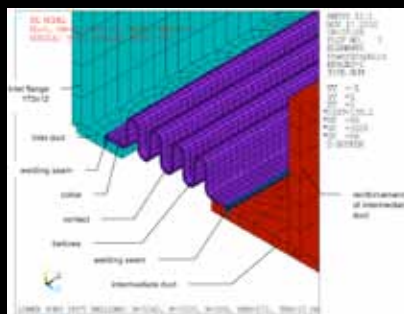
ALSTOM FORMER AREVA TD

Pressure balanced expansion joints for SF6 switch boards



ITER FUSION PROJECT CADARACHE

kompaflex designs all rectangular 3320 x 3240 mm universal bellows connecting the ITER vacuum vessel and cryostat. kompaflex uses complex FEM analysis to perform this task.



All major research institutes and vacuum companies rely on kompaflex expansion joints. We have an experience of over 30 years in this field:

- Accel GmbH, Bergisch-Gladbach
- ALD Vacuum Technik GmbH, Hanau
- Areva TD
- Babcock Noell
- CERN, Switzerland
- DESY Deutsches Elektronen-Synchrotron, Hamburg
- Forschungszentrum Karlsruhe
- Forschungszentrum Jülich, Fusionsreaktorprojekt ANKE / ANLESA
- GEVA GmbH, Berlin
- GSI Gesellschaft für Schwerionenforschung
- Ilmvac GmbH, Ilmenau
- IPP Max-Planck-Institut für Plasmaphysik, Greifswald
- ITER Cadarache, France
- KLM Rapid Prototyping, Ellwangen
- Linde Kryotechnik
- Paul-Scherrer-Institut, Villingen
- Pfeiffer Vacuum GmbH, Asslar
- Research Instruments GmbH
- Systec GmbH, Karlstadt
- Trinos GmbH, Göttingen
- University of S-Lund, Max Lab
- Universität Dortmund, DELTA Accelerator
- VAI Fuchs GmbH, Duisburg
- VAT Haag

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