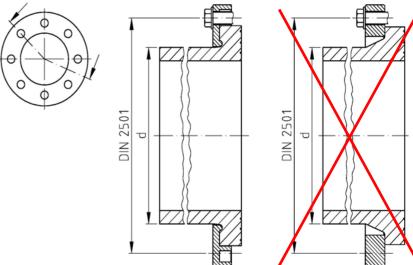
HP-FLANGE - connection PE to accessories - DN 50 - DN 600



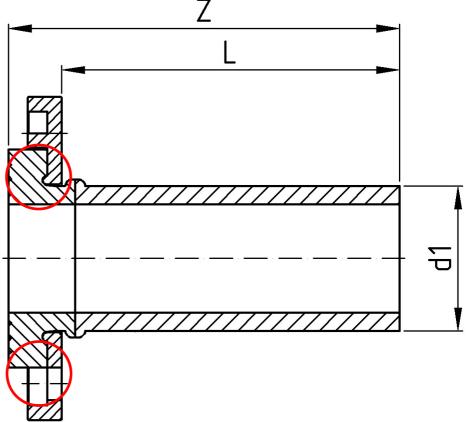
alternative to F-pieces and stub ends with backing rings





HP-FLANGE, up to 25bar







HP-FLANGE, up to 25bar





PROFILE GASKET

a SAFE flange connection also needs as well a SAFE SEALING!

Most of the relaxation occurs during the first 50-100 hours => re-tightening after one or two days is relevant

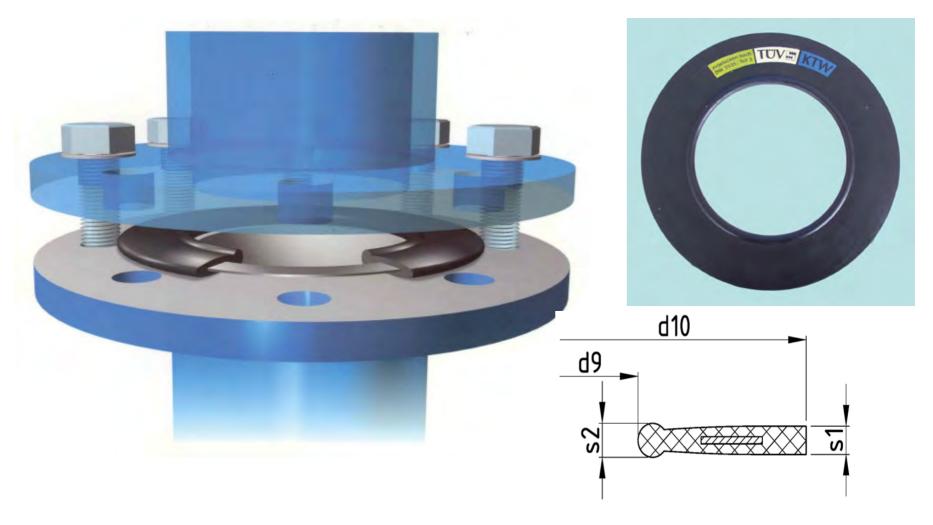
The gaskets help to - distribute the pressure more evenly and - possibly smooth uneven flange surfaces

Lars Jacobsson, Hans Andersson, Daniel Vennetti and Sven-Erik Sällberg

SP Technical Research Institute of Sweden, Göteborg, Sweden Presented at the Plastic Pipes XVI Conference in Barcelona, September 2012

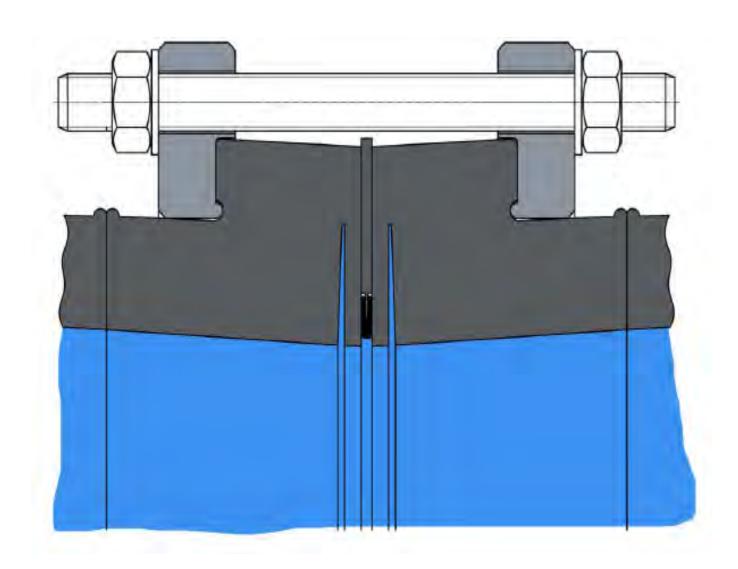


PROFILE GASKET





HP-SC Flange, stress compensation version





Conclusions



Concluding Statement

- PE 100 pipe is a wonderful material for laying long lengths of pipe
- PE 100 fittings give problems due to the same characteristics that make it wonderful to lay
- The definition and selection of the fittings to create a sustainable and beneficial pipe system can ensure marked reduction in water losses

solutions are readily available



Thank you very much

for your attention





EXTRA SHEETS DEALING WITH TEES / BRANCHES

- design and practice examples
- how not to do it
- 3. full pressure rated equal tee d900mm, under test
- 4. full pressure rated equal tee d900mm
- 5. full pressure rated equal tee d900mm, profile version
- 6. full pressure rated reduced tee d1200mm/DN 150
- 7. hydrostatic testing, equal branch, at 25bar
- 8. you need it, we can do it multi-branch tee



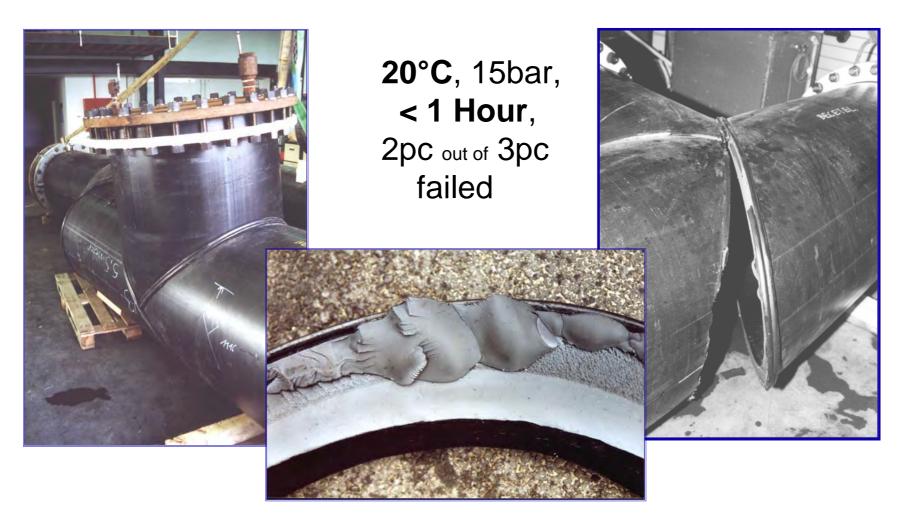
EXTRA SHEETS DEALING WITH TEES / BRANCHES

PE and PP fully pressure rated large bore fittings, design and practice examples

- Increasing trend to larger diameter for PE pressure systems
- Economic development of fittings (more stability, reduced costs)
- Design, construction and rating



Hydrostatic Pressure Test - Mitred tees, d 900mm SDR17





BECETEL, Belgium - Hydrostatic Pressure Test



Test parameters

EN 12201-3 20°C, σ 12,4MPa, 100h

80°C, σ 5,5MPa, **165h**

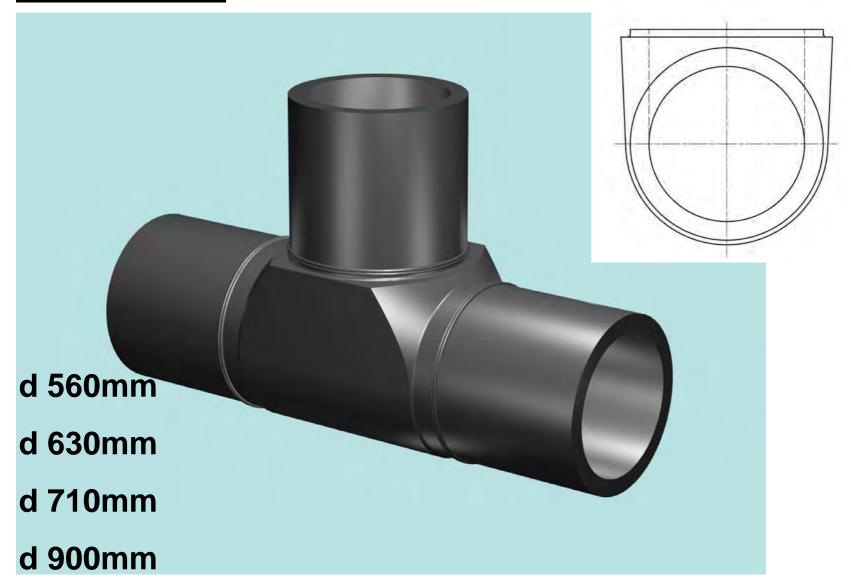


VMW- Water Company Antwerp (Belgium) d 900mm SDR17





PROFILE TEE - NEW GENERATION





REDUCED TEE - d 1200mm / DN 150





HYDROSTATIC STRENGTH TEST - TENSILE test, 25bar





FREE FLOW X-CROSS - for connection to hydrant



