

## Expansion joint technology > Fixing types

### Flanged fixing

#### Glass reinforced epoxy piping (GRP) specialities

Flanges of glass reinforced epoxy piping cannot withstand the required tightening torques of full-faced rubber expansion joint fixed to without cracking depending from design pressure and pipe standard. In order to avoid special measurements on the GRP pipe flange ditec has developed a special sealing technology in the bellows rubber flange to lower the torques by approx. 50%. This also eliminates the need for any grooves for O-rings in the GRP flange and the most economic flat face GRP flange can be applied.

In case of expansion joints in GRP pipelines with collar flange fixing and backed steel rings the rubber flange surface shall have a raised face up to the outer diameter of the GRP stub to avoid cutting of sharp edges into the rubber.

