



Industrie Service

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Testing of pipe systems and fittings

A Product Information Sheet by the Plant Engineering / Institute for Plastics Business Area

Do your plastic pipe systems comply with requirements?

Today, pipe systems are increasingly made of plastics, which frequently represent a genuine alternative to other materials. In addition, plastics offer special properties which permit them to be used in applications where other materials show limitations, especially in the long term. Given this, one sphere of their use is the chemical sector and wherever aggressive substances need to be transported. In this context, the potential fields of application of plastics are constantly expanding, which naturally requires that this applicability is first verified by means of experiments.

TÜV SÜD: Your partner for the testing of pipe fittings and compressed gas cylinders

As a third-party approval body, TÜV SÜD's Institute for Plastics has long-standing experience in the testing of pipe fittings made of both reinforced thermosetting plastics and thermoplastics. We also provide expert specialists and professionals who support you by developing innovative solutions on your behalf. The **Institute for Plastics** assists you with the following services:

Pipe fittings made of thermosetting plastics and thermoplastics

- Tests and inspections required for a national technical approval issued by DIBt
- Type examinations on behalf of DVGW and mining offices
- Qualifications testing for DIN CERTCO
- External quality assurance for DIBt, DVGW
- Quality assurance during installation

Compressed gas cylinders made of composite materials

- Assistance in material selection
- Conducting type examinations

Tests and inspections particularly focus on:

- Static and dynamic short and long-term internal pressure testing (ASTM D 2992)
- Short and long-term compression testing
- Strain corrosion tests (FRP pipe fittings)
- High-pressure pipelines (FRP flow lines)
- Offshore FRP pipelines
- Waste water and potable water pipes
- Gas pipes
- Strain measurements
- Damage appraisals

TÜV SÜD. Choose certainty. Add value.

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