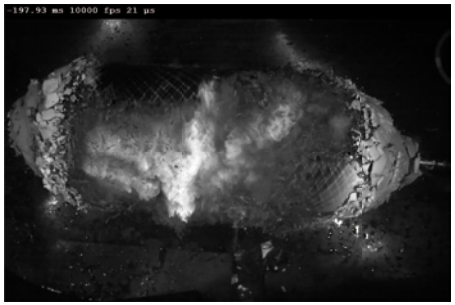
MAXIMATOR®

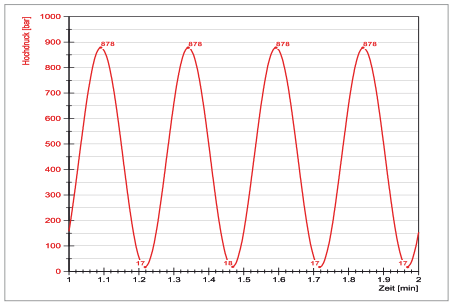
Maximum Pressure.

High Pressure Technology • Testing Equipment
Hydraulics • Pneumatics

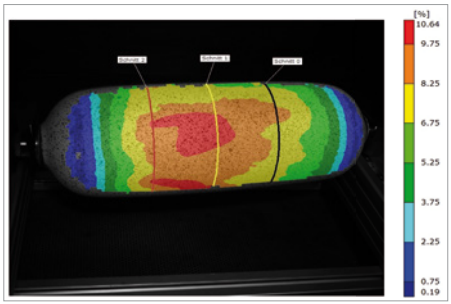
Testing services



High speed recording of the burst process



Reproducible sinus curve



3D deformation measuring

Burst pressure tests

Technical specifications:

- Up to 2.000 bar burst pressure
- Up to 500 l volume
- Up to 4m length
- Variable speed for pressure increase
- In accordance with EC79/2009 and ECE R110

Optional:

- High speed recording of the burst process with up to 10.000 images / second
- Laser optical 3D deformation measuring
- Torsional moment up to 10.000 Nm
- Bending strength up to 15.000 N

Pressure cycling tests

Technical specifications:

- Up to 875 bar upper pressure level
- Up to 10 load changes / min
- Reproducible sinus curve

Optional:

- Laser optical 3D deformation measuring
- Torsional moment up to 10.000 Nm
- Bending strength up to 15.000 N

Pressure / leakage tests

Technical specifications:

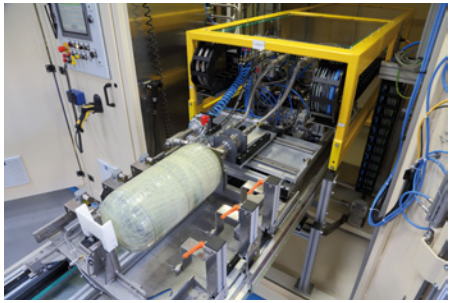
- Integral test procedure under vacuum
- Local test procedure with sniffer
- Tracer gas: hydrogen or helium
- Up to 875 bar
- Verifiable leakage rate up to 10^{-8} mbar * l * s^{-1}

Optional:

- Laser optical 3D deformation measuring
- Drying process afterwards

Testing equipment

Burst test chamber with sacrificial elements



Extricable flexible fixture

End-of-Line pressure test stand

Burst pressure test stand

Technical specifications:

- Up to 4.000 bar burst pressure
- Any volume
- Test fluid: e.g. water
- Test stand according to customer requirements
- Fixture concept for tests in all positions
- Burst-testing for tanks (Type 1-4) in accordance with EC79/2009 or ECE R110
- Exchangeable sacrificial elements enable short period between tests

Optional:

- MAXIMATOR software according to customer requirements
- With length-, circum-ference-, diameter or volume-measurement
- Remote service

Pressure cycling test stand

Technical specifications:

- Up to 20 load changes / min (depending on volume and pressure)
- Up to 1.200 bar upper pressure level
- Fixture concept for tests in all positions
- Pressure Cycling in accordance with EC79/2009 or ECE R110
- Reproducible sinus or trape curve (other curves are possible)

Optional:

- MAXIMATOR software according to customer requirements
- Dynamical display to monitor the test process
- Fully automated test stand

Pressure / leakage test stand

Technical specifications:

- Integral or local leakage tests
- Various tracer gases (like hydrogen or helium)
- Up to 875 bar testing pressure
- Fully automatic end-of-line leakage testing for fully-assembled system
- Flexible fixtures and protective devices for tanks with various lengths and volumes

Optional:

- Manual or robot handling
- Integration of cleanroom
- Recovery of tracer gas
- Communication with a superior production control
- Set up of complete EOL testing

Maximator GmbH is a leading supplier of high-pressure testing, hydraulic and pneumatic. Over 390 qualified and motivated employees develop, design, manufacture and distribute our products around the world.

Over the last 2 years we have been able to gather a lot of experience in the area of type-IV-tank-testing. We provide support in the development of new tank systems and accompany series productions.

We face the challenges of alternative drives with innovative high-pressure-tests. We promote the development of CNG and H2 power units together with our customers.

Join us on our journey into a clean and save future.

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