

Ex d explosion protection in accordance with IEC/EN 60079-1

Equipment protection based on Ex d “flameproof enclosures” – the vacuum pump enables tests to be conducted in the field of aeronautics too.

Test chamber dimensions

- \varnothing 1,000 mm x 1,100 mm height, max. 40 bar
- \varnothing 600 mm (clamping table with T nuts DIN 650/M8)
- Air pressure adjustable to 250 mbar – 2.5 bar absolute

Available gases

- Air
- Hydrogen H_2
- Methane CH_4
- Acetylene C_2H_2
- Ethylene C_2H_4
- Nitrogen N_2
- Gas pressure up to 2.5 bar absolute

Equipment

- Automated gas mixing system
- Oxygen analyzer to determine the gas mixture
- 3 pressure sensors (dynamic)
- 1 pressure sensor (static)
- 3 ignition sources
- 2 in-/outlets for gas flushing of test sample
- 1 in-/outlet for gas flushing of test chamber
- 2 sockets for electrically connecting engines
- High-speed camera (1,000 fs) to evaluate flame transmission
- Measurement log created with the help of a database

