



Breather Valve Testing

VENT-LESS[®] CAN HELP YOU



About Us

We specialise in high-quality equipment and services that meet stringent international standards—prioritising safety, environmental responsibility, and cost-efficiency.

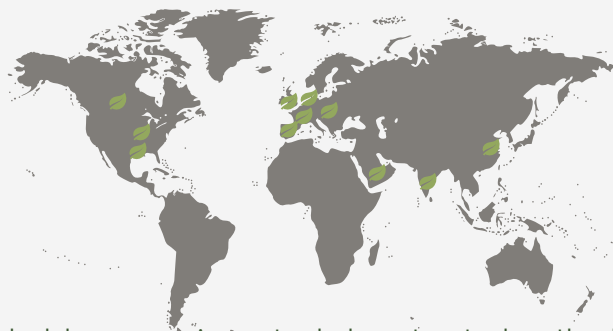
Our reputation is built on deep technical expertise, a global supply network, and a one-stop-shop approach that delivers tailored solutions for even the most complex applications.

We understand the risks and costs of tank storage. That's why we only supply equipment that meets the highest safety and environmental standards.

Managing Director Ewart Cox brings 25 years of tank venting experience and serves on several key international standards committees:

- BSI (PSE-17 WG6) and the IOGP, contributing to the upcoming revision of BS EN ISO 28300
- API2000 voting member and task group leader developing a new environmental annex
- API576 contributor, aligning maintenance practices with API2000
- Advisor to regulatory bodies, including the Environment Agency, on biogas digester emissions control

Assentech delivers proven performance, credible data, and technical integrity—backed by global standards leadership.



Founded in 2009, Assentech is a trusted authority in Tank Storage, Process Safety, and Fluid Transfer.

The VENT-LESS test bench range was born out of necessity. When we discovered that 85% of breather valves tested were non-compliant, failing to meet the stringent requirements of API2000, it became clear the industry lacked the tools to accurately assess valve functionality and performance. Even manufacturers were without the technology to verify their own products.

The sector urgently needed a revolutionary solution—one that could provide clear, credible insight into breather valve compliance, leak rate, performance, and settings.

VENT-LESS is that solution. Purpose-built to raise standards across the global tank storage industry, it empowers users with the data they need to make informed, safety-critical decisions.

Vent-Less, the unique Gold-winning gamechanger recognised at the Global Tank Storage Awards, delivers fast, automated API2000 testing with unmatched accuracy and impact.

The Ultimate Solution for End Users, Valve Manufacturers, and Maintenance Providers

Accuracy and Traceability

Vent-Less delivers automatic API2000 testing with full traceability and proven accuracy, calibrated to national standards. Each test includes test date, technician name, calibration reference, valve serial number, test bench ID, and photographic evidence for credible, consistent results. Easy calibration before every test ensures compliance. QR code access and a user-friendly interface provide instant and historical data retrieval—streamlining compliance.



Compliance

- Recognised as a Best Available Technique, Vent-Less evidences duty of care by protecting the workforce, facility, environment, and reputation.
- Enables hazardous area re-zoning with accurate leak rate data, ensuring site classifications reflect actual conditions and support DSEAR compliance.
- API2000-compliant test reports include pressure and vacuum port data, providing a complete performance profile for each breather valve.
- Leak rate data supports LDAR programmes and fulfils Environment Agency reporting by identifying and quantifying fugitive emissions.
- In an HSE investigation, the test report provides a best practice defence, proving equipment has been verified and maintained to the highest standards.



Benefits

- Automatic, single-user testing powered by intelligent software algorithms.
- Testing in as little as 3 minutes per valve.
- Fully aligns with API2000 Section 5.4 test criteria.
- Identifies underperforming breather valves for targeted repair and compliance.
- Accurately measures leak rates with evidence to demonstrate improvement.
- Delivers reliable, repeatable results to inform replacement of non-compliant valves.
- Verifies valve settings match application requirements.
- Ideal for pre-commissioning:
 - Confirms settings post-transit
 - Detects physical damage or packaging left inside
 - Enables rapid API2000 testing in under 3 minutes
- Tests both vacuum and pressure ports.
- QR code integration for instant access to historical test records.
- Leak rate data + Assentech's emissions calculator = measurable emissions reduction and compliance assurance.