

Assentech
Sales Limited

Assentech
Rapid Response & Service Limited

Products

Services



“Maintenance Experts in Process Safety, Fluid Transfer and Tank Storage”

Compliance / Legislation

Why choose us?

Assentech Engineers use a comprehensive test regime. We are confident that our technical and scientific knowledge of how a breather vent operates, will ensure that we can assist your site to achieve maximum efficiency and legislative compliance.

Safety



Efficiency



Profit



- ✓ Breather Valves - Service and Calibration
- ✓ Loading Arm Overhaul, Service and Installation
- ✓ Break-away Couplings Service
- ✓ Site Installations - FlowDome
- ✓ Site Installations – Gantries
- ✓ Site Installations - Internal Floating Roofs
- ✓ Cargo Hose Testing
- ✓ Hose Testing

www.assentech.co.uk

Tel : 01726 844 707

info@assentech.co.uk

NEW! Finance Options

Assentech have established a good relationship with **Leasing Programmes** who offer a range of flexible loan options. Ask for further details.





Safety



Compliance / Legislation

Breather Valves - Service and Calibration

Loading Arms Service and Installation

Break-away Couplings Service

Site Installations FlowDome

Site Installations Gantries

Site Installations Internal Floating Roofs

Cargo Hose Testing

Hose Testing

As we all know a simple visual inspection is no longer accepted by the HSE and evidence of the site's preventative maintenance & management of ageing plant plans must be provided.

Every company needs to ensure its valves are functioning safely and within the set parameters.

Assentech Engineers will help to achieve this by testing, calibrating and servicing all your Vents.

we will ensure our engineers make sure all your valves are safe ,certified and full functional.

[Please Click here for more details](#)

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Efficiency



“The ability of a device to accomplish its task with the minimal effort”

Assentech checks 36 individual details when carrying out calibration and leakage testing for each pressure/vacuum breather vent and enters a total of 49 pieces of information on our certificates. No other company is as thorough in its search for the most efficient breather vent possible.

The key to reliable breather vent performance is structured regular checks. A full strip and removal from the tank every year is not necessary in most cases unless the application is extremely severe. In most cases a combination of full service and calibration can be followed by one or even two routine annual visual checks.

[Please Click here for more details](#)

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Break-away Couplings Service

Site Installations FlowDome

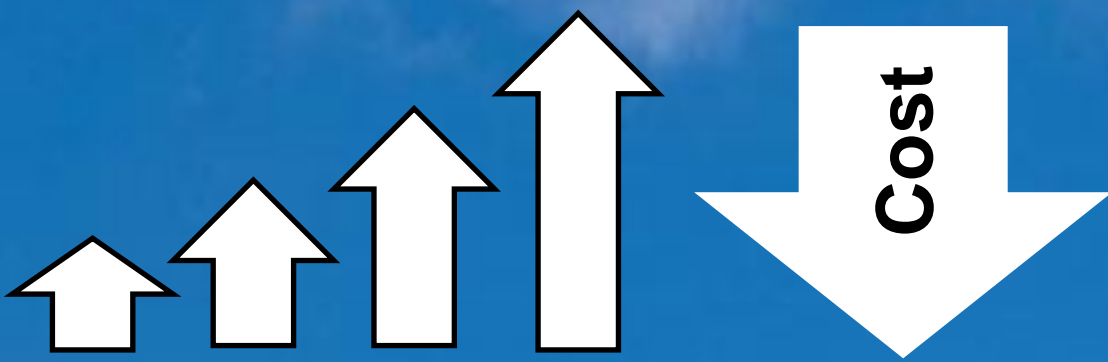
Site Installations Gantries

Site Installations Internal Floating Roofs

Cargo Hose Testing

Hose Testing

Profit



Do you make a cost benefit analysis of every investment you make?

In every case Assentech can provide a cost benefit case for the provision of well sealing breather vents.

Well maintained tank vents will minimise vapour loss.

A recent study showed a customer lost over £200k worth of product per annum from 4 tanks due to vapour loss. The hidden cost was that the remaining stored media had lost volatility as most of the light ends had evaporated.

Another example of huge savings is where efficient breather vents minimise ingress humid air as the tank cools at night. Water contaminated feed stock can lead to a batch being rejected and lost production.

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Breather Valves Service and Calibration



Conservation breather vents/ valves perform an important role in the control of emissions to the environment, retention of product quality and reducing corrosion rates of the tank and surrounding equipment.

Unlike higher pressure control devices which are regulated by ISO 4126 or ASME VIII, conservation vent performance and maintenance guidelines are less well publicized but equally as important.

Even though the pressures are relatively low, the forces are extremely high due to the large surface areas of bulk liquid storage tanks. Colossal loss of containment resulting from structural tank failure is a life threatening event, environmental catastrophe and commercial disaster.

The frequency of testing will be determined by the Local Authority and your application. This could be between 6 months and 3 years.

Assentech is your competent partner fulfilling the role in PSSR Management.

Capabilities of a competent partner should include:

- Staff with practical and theoretical knowledge and actual experience of the relevant devices and their application.
- Access to specialist services.
- Effective support and professional expertise.
- Exhibit standards of professional probity.

[For more details about our service options and packages please Click Here](#)

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Loading Arms – Breakaway Couplers Service



Loading arms are critical logistical components in the safe transfer of hazardous fluids. They must be light to handle, leak tight, reliable but above all safe. For many of our customers their loading arm is used daily for loading/off loading stock media that is critical for the smooth running and profitability of their business. In many cases there is no alternate means of fluid transfer if the arm comes out of service. To function efficiently and safely the arm must be balanced with free moving but tight sealing swivels. The coupler and/or control valve must be simple and safe to activate.

Safe management of the loading arm requires that it is maintained and inspected regularly. The simple construction and good design of loading arms regularly results in them being excluded from routine maintenance programs. This is often a conscious decision by operators who cannot allow the arm to be out of service for more than a few hours.

[For more details about our Loading Arms, Break-Away Couplers Packages please Click Here](#)

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Cargo Hose Testing



Compliance / Legislation

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Cargo Hose Testing

Hose Testing

Cargo Hose Testing where our Engineers adhere to the maintenance and test regime specified by **OCIMF and ISGOTT**

Visual Inspection

Hose Certification Checks

Pressure Test (Integrity Check)

Vacuum Test

Electrical Continuity Test

Bend Tests

And all test regime specified by **OCIMF, ISGOTT and ISGINTT**

[Please Click here for more details](#)

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Hose Testing



Compliance / Legislation

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Cargo Hose Testing

Hose Testing

Assentech offers hose leakage testing.

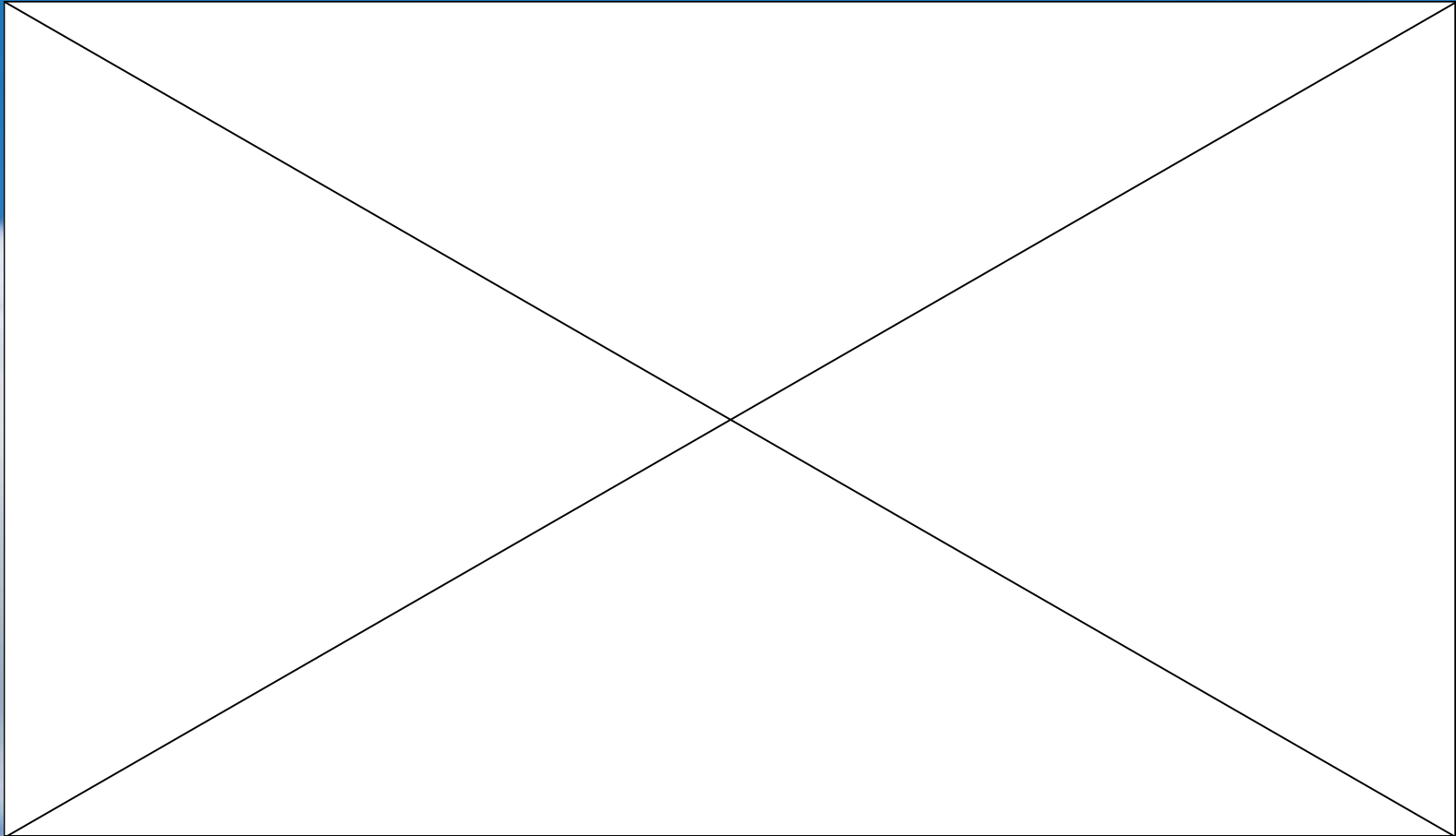
Act now to avoid unplanned outages and increase safety for your operators.

The hose test parameters Assentech Engineers test to confirm the hose integrity :

- Pressure Test
- Elongation Checks
- Durometer Recordings
- Visual Inspection
- Certification

All the above tests Completed at the customers premises.

[Please Click here for more details](#)



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Site Installations - FlowDome Matrix Applied Technologies

At Assentech, we have the capability to supply and install **FlowDomes** of all sizes using our team of manufacturer trained confined space engineers.

The domes we work with are designed and manufactured by Matrix Applied Technologies . Matrix Applied Technologies have long been the global leader in the design and manufacture of geodesic domes and in 2010 launched the **FlowDome** – the world's first flush batten dome.

The **FlowDome** incorporates the very latest engineering technology and unlike many of the copycat domes, it was designed from scratch with the sole purpose of being watertight.

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Site Installations – Gantries



At Assentech we have a lot of experience with tanker loading and offloading systems. We have supplied and installed loading arms and gantries into wide a variety of industries and applications and are happy to share our experience with our customers.

As well as assisting the design, supplying and installing loading arms, we also service on-site and refurbish at our purpose built repair center in the South West.

In addition to supplying loading arms and couplers, we also design and build top-loading platforms and offloading systems, combining our experience with the latest FEA software and production techniques.

[For more details about our Loading Arms & Loading Gantries Installations and Design service please Click Here](#)

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✓ Compliance / Legislation



Compliance / Legislation

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Site Installations Internal Floating Roofs

Cargo Hose Testing

Hose Testing

From a legislative compliance perspective, when a breather vent is installed on a tank it has to perform according to the Standard to which the tank was built, ie, tanks are likely to be designed and built to API650 or BS EN 14015. Breather vent manufacturers should also comply with these Standards and perform a 100% leakage test and calibration before despatch.

It is the responsibility of the operator to ensure the devices continue to perform to factory specification throughout their serviceable life.

Beware of low cost breather vents that are unlikely to be in compliance with any tank venting Standard. In our experience, low cost breather vents are not tested at the factory before despatch and will cost you a lot more in the long run.

As the well-known saying indicates “you get what you pay for” and unfortunately the cheaper vents on the market may cost you more in the long run

When purchasing your breather vents:

- Ensure the vents are supplied with leakage and calibration certificates. Leakage testing is now part of ISO 28300 or API 2000. Most manufacturers supply only calibration certificates (not including the leakage tests) which are now technically in contravention of API2000. Testing each vent takes a minimum of 1 hour at the factory and is not something most manufacturers include with every vent. It is usually a cost adder option but we include it in our basic price.
- Leakage testing is a primary integrity requirement for breather vents new and old. If you do not have a leakage test certificate for your breather vent, you are vulnerable and could be fined by the authorities for non compliance with national and international Standards.
- Effective sealing vents will save thousands of pounds in emission loss.
- Preferably FEP Teflon diaphragms to ensure maximum performance.
- Ensure Manufacturers perform leakage test on the vacuum port too.
- Supplied with stainless steel weights. This is more expensive to supply than lead as offered by our competitors but lead is obviously a big problem for applications within the pharmaceutical, food and drink industries.
- Ensure the cover bolts are on the outside of the seal. This is a leakage path and the reason why few other manufacturers certify leakage rates.
- Ensure pipe-away vents include drains behind the outlet flange. We have experienced many cases where the outlet pipes trail upwards and do not self-drain. This creates the risk that the pressure pallet can freeze onto its seat as it is constantly immersed in condensate.
- A lot of vents on the market are fabricated, not cast. This creates corrosion and bacteria traps which we don't get with our single piece castings.
- Ensure your breather vent has a current pressure and vacuum leakage test certificate which is stipulated by industry Standard, ie, for vents up to 6" this is 0.5 SCFH at 75% of set point.

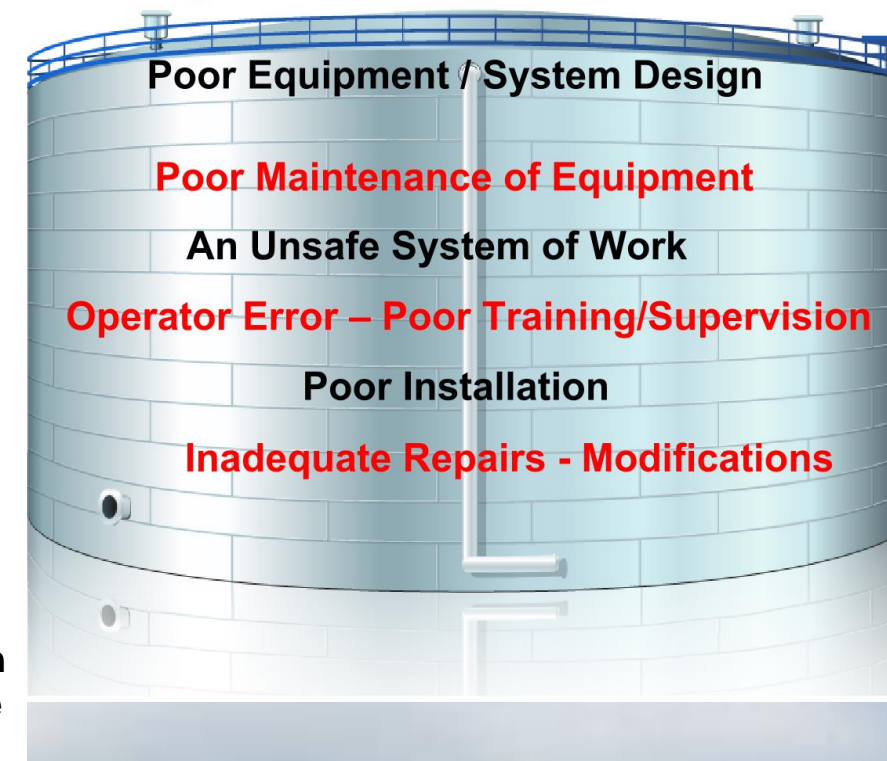
From experience we advise that you avoid the lowest quality breather vents on the market and recommend that you ensure regular testing to meet the minimum pass criteria of ISO28300 or ISO28300 to avoid a vulnerable position with the HSE.

Why choose us?

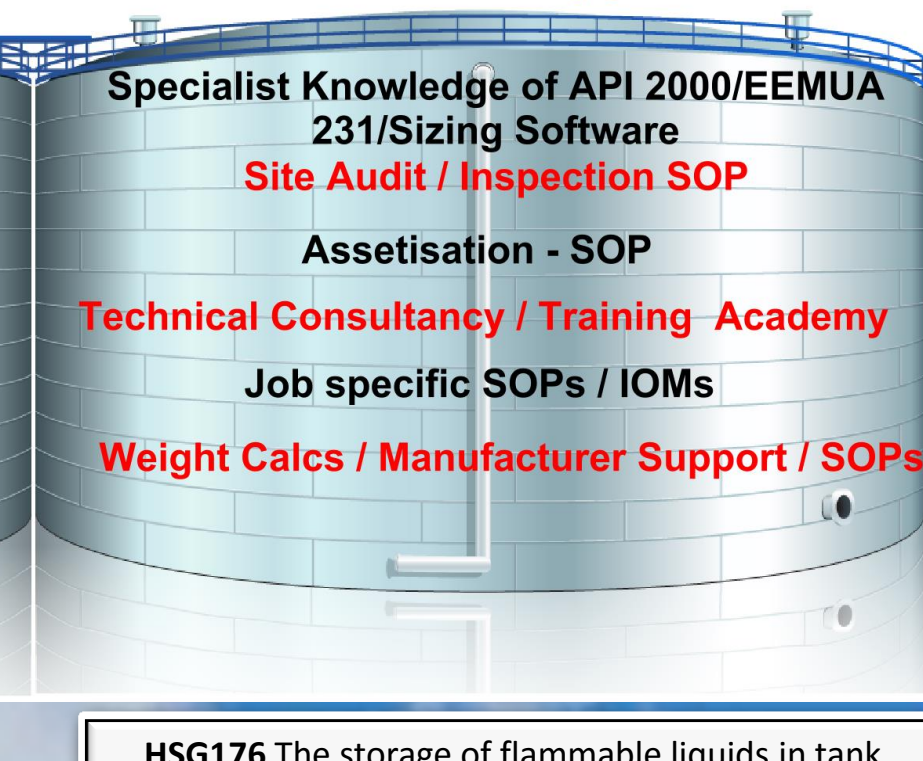
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Pressure Systems Safety Regulations 2000 (PSSR)

Principles Causes of Incidents



Assentech Support



HSG176 The storage of flammable liquids in tank (HSE)

OHSAS 18001 Health and Safety

NFPA30 Flammable and combustible liquids code

RR760 Mechanical integrity management of bulk storage tanks (HSE)

API 653 Tank inspection, repair, alteration and reconstruction

API RR 2359 Recommended practice for overfill protection for storage tanks in petroleum facilities

[For more details about Compliance / Legislation please click here](#)

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Compliance / Legislation

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Cargo Hose Testing

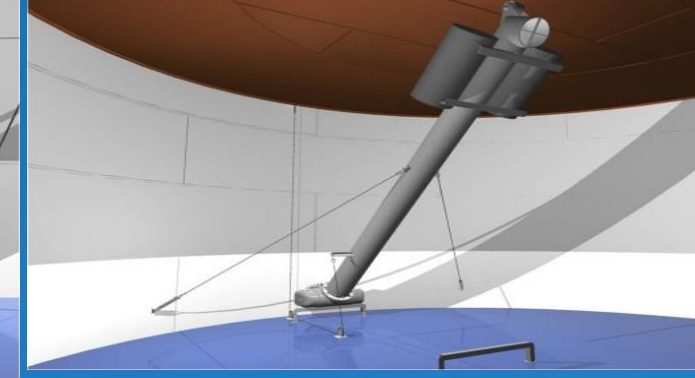
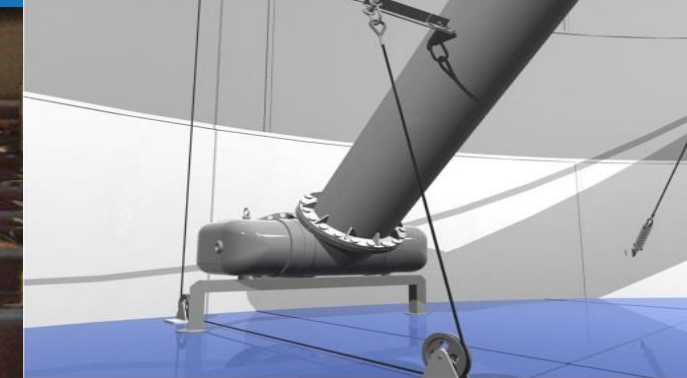
Hose Testing

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Site Installations - Internal Floating Roofs

Matrix Applied Technologies



At Assentech, we have the capability to supply and install IFR's of all sizes using our team of manufacturer trained confined space engineers.

The IFR's we work with are designed and manufactured by Matrix Applied Technologies. Matrix Applied Technologies have long been the global leader in the design and manufacture of IFR's, with 25 years practical tank experience and installations in over 80 countries Worldwide.

We primarily offer two types of IFR from Matrix Applied Technologies , their Heavy Duty Aluminium Pontoon Type IFR and the Matrix Applied Technologies Full Contact Aluminium Honeycomb Panel IFR. Each has been designed to overcome the many design problems that exist in other well-known brand IFR's – offering value for money through low cost of ownership and long term durability.

[Please Click here for more details](#)

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Assentech

Sales Limited

Products

Services



Breakaway Couplers



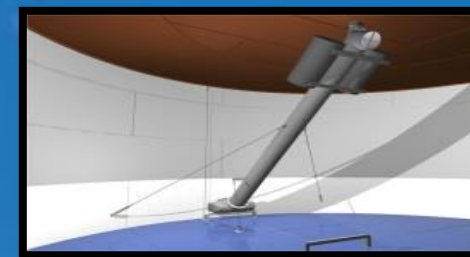
Bursting Discs



Couplers



Flame Arresters



Internal Floating Roofs



Tank Venting & Tank Blanketing



Top & Bottom Loading Systems



FlowDome



Floating Suction Lines

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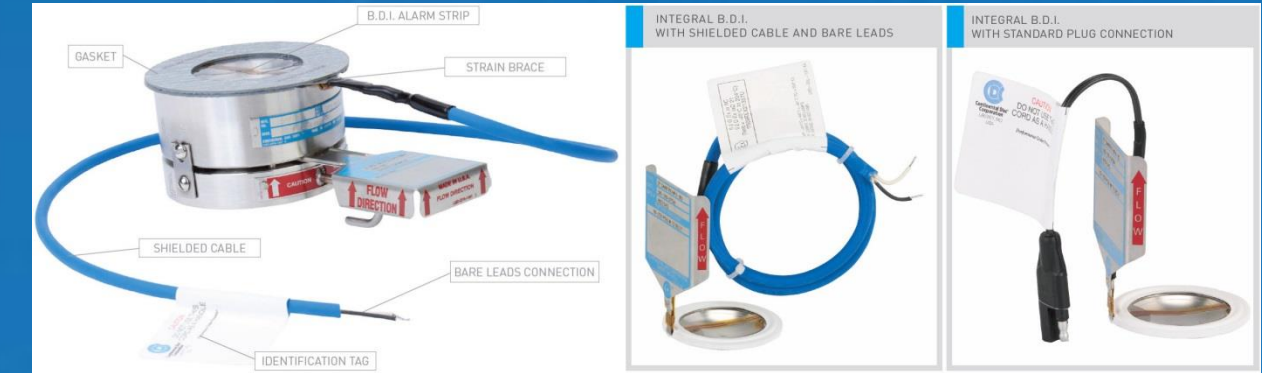
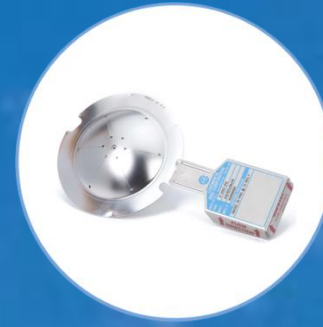
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Bursting Discs (Rupture Discs)



Products

Services

At Assentech we have a wealth of experience with bursting discs, supplying discs manufactured to our customers' specifications for a broad range of applications, from aircraft control systems to chocolate factories and nuclear processing modules.

All manufacturing is performed under an approved ISO 9001 Quality Assurance System and we can supply rupture discs certified to the standards of the ASME, the European Pressure Equipment Directive, the China Manufacture License, the 3A Sanitary Standards Council and many others.

Assentech can offer free advice on your bursting disc application and can in most cases propose solutions to problematic discs which may be failing early. We also operates a 'red ball' service which allows customers with urgent requirements to jump to the top of the production queue. This means that discs can be manufactured and shipped the same day, helping customers to prevent downtime and production losses.

[For more details please click here](#)

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Couplers



Products

Services

At Assentech we work with couplers from OPW Fluid Transfer Group. We chose to work with OPW over other manufacturers on account of their high-quality offerings and product ranges. We have extensive experience in the supply, installation and maintenance of couplers and will happily use our experience to offer sound advice to our customers on any coupler issues they may have.

OPW have a comprehensive range of API Couplers, Dry Disconnect and Quick Disconnect Couplers all designed and built to the highest quality.

Dry Disconnect couplings have been proven as a successful technology to help protect workers and the environment in the transfer of hazardous materials whilst the Quick Disconnect has set the industry standard for safety and ease of use.

Assentech is the UK’s exclusive distributors for OPW Fluid Transfer Group

[For more details please click here](#)

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Products

Services

Why choose us?

Flame Arresters



At Assentech we have a lot of experience with flame arresters, with our MD having previously sat on the ISO committee. We are familiar with EN ISO 16852:2010 and have supplied and installed flame arresters into a wide variety of industries and applications.

As well as sizing, supplying and installing flame arresters, we also service in-situ and refurbish at our purpose built repair centre – one of only 2 Groth Approved Repair Dealer workshops in Europe.

[For more details please click here](#)

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Floating Suction Lines, Skimmers and Roof Drains



Products

At Assentech we supply, install and service our own and 3rd party floating suction lines. We have a team of confined space engineers at our disposal and will be happy to assist you with your enquiry.

The floating suction lines we work with are designed and manufactured by Matrix Applied Technologies . Matrix Applied Technologies is the global leader in the design and manufacture of skimmers and large diameter floating suction lines, with installations in over 80 countries and the expertise to custom design Floating Suction Lines and Skimmers for any tank configuration.

Matrix Applied Technologies product lines are for fixed roof tanks and tanks with internal or external floating roofs with pipeline diameters from 3 inches to 42 inches.

[For more details please click here](#)

Services

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FlowDome

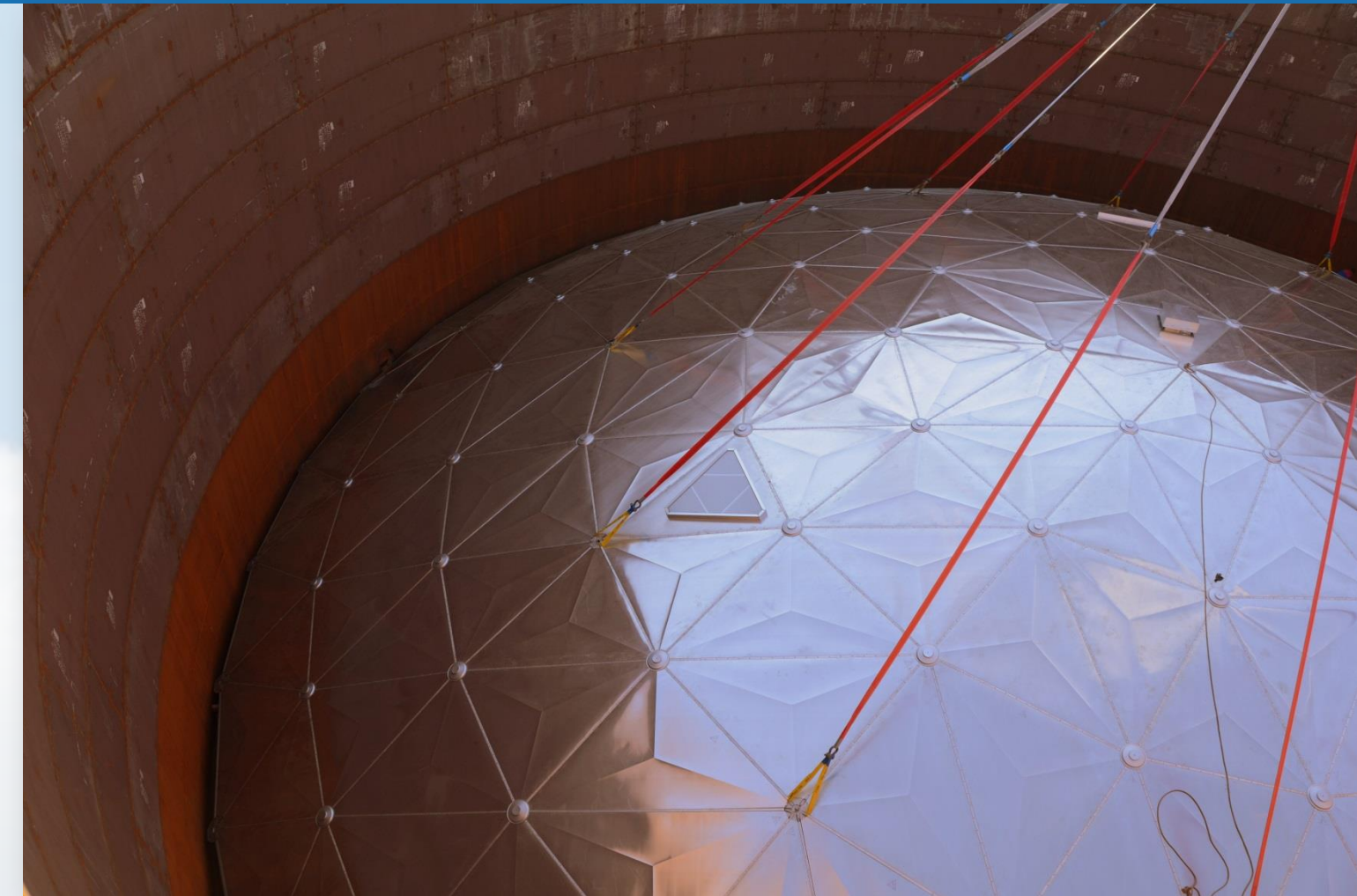
Assentech & Matrix Applied Technologies

At Assentech, we have the capability to supply and install Geodesic Domes of all sizes using our team of manufacturer trained confined space engineers.

The domes we work with are designed and manufactured by Matrix Applied Technologies. Matrix Applied Technologies have long been the global leader in the design and manufacture of geodesic domes and in 2010 launched the FlowDome – the world's first flush batten dome. The Matrix Applied Technologies FlowDome incorporates the very latest engineering technology and unlike many of the copycat domes, it was designed from scratch with the sole purpose of being watertight.

At Assentech, we offer a complete installation service provided by our team of Matrix Applied Technologies trained confined space installation engineers. If you would prefer to use local staff for your installation, we will consider providing a project manager and site supervisor to oversee the team of your choice as long as they are suitably skilled and qualified.

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Breakaway Couplers



Products

Services

Assentech are distributors for KLAW Products Ltd, the global leader in the design and manufacture of Breakaway Couplers (BACs) and Emergency Release Couplings (ERCs). KLAW are the designers and manufacturers of the original Flip-Flap coupler. Its intelligent design and precision engineering provides a reliable 100% instant double valve shut off .There are 1000s of units in service worldwide.

The KLAW Flip-Flap Coupling has proven to deliver reliable product transfer protection in the most demanding of circumstances and locations and has been awarded Lloyds Type Approval which specifically highlighted the unique design.

Though BACs are generally ‘off the shelf’, there is an element of engineering design. Assentech always takes a key role in the design with our customers, so that the equipment best suits the application. This includes selecting the most appropriate body and seal materials, breakstuds which hold the two coupler halves together, as well as ensuring that the gantry has the rigidity required to resist the loads involved.

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Loading Systems-Loading Arms-Swivel



Products

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Assentech have a wealth of experience in tanker loading and offloading applications and are proud to be UK distributors for OPW Fluid Transfer.

Working hand-in-hand with OPW's engineers based in the Netherlands, we supply OPW's full range of tanker loading equipment as well as using our own design and fabrication expertise to create loading platforms, gantries and racks to our customers' specifications.

As well as assisting the design, supplying and installing loading arms, we also service on-site and refurbish at our purpose built repair centre. In addition to supplying loading arm.

In addition to supplying loading arms and couplers, we also design and build top-loading platforms and offloading systems, combining our experience with the latest FEA software and production techniques.

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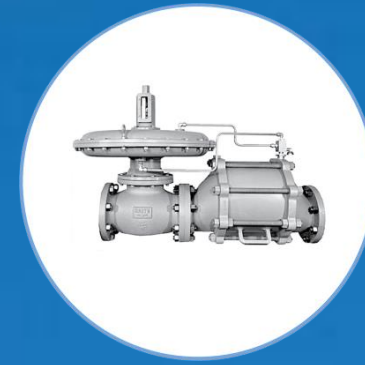
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Tank Venting- Pressure &/or Vacuum Relief Valves Blanket Gas Regulators



Products

Services

Assentech have extensive experience in the supply, installation and servicing of tank top equipment, as well as a full understanding of the theory, standards and legislation that applies.

Assentech service tank equipment from all manufacturers and supply all Groth's product range (We are the UK's exclusive supplier for Groth corporation).

The equipment we supply is manufactured by Groth Corporation. Groth are committed to satisfying customers' needs with good quality, high integrity equipment. Groth's products stand head and shoulders above the competition with a number of unique features.

Tank Venting isn't rocket science, but it's not always as straight forward as it may seem. At Assentech, we take a consultative approach to your requirements, offering you the benefit of our experience and sizing as part of the service. We size to API2000 6th Edition using our sizing software and work closely with the manufacturers to ensure you get the best equipment for the job.

At Assentech we choose to supply Blanket Gas Regulators from Groth Corporation, not only because they are of the highest quality, but because they are a simple design with as few moving parts as possible which makes for long lasting components.

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Internal Floating Roofs



Products

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