Welcome to our Edition 6 catalogue, in the catalogue you will find a lot of handy information about our six divisions and the products they supply and manufacture for a range of different applications.

T-T is your one stop shop for everything needed to master water management challenges. We specialise in not only off-the-shelf pumps, valves and controls but also bespoke pumping solutions, specialist valves that are tailored to meet your exact requirements and custom-made control panels for your specific application. With a dedicated technical team, constant research of water technology and the latest developments in the industry catered to, we are the company you can rely on to get the job done. We have thousands of products in our range, which gives us the capacity to meet any challenge in a wide range of industries. So whether you need a water management system for a housing estate, or a sophisticated pumping station for a water treatment plant, trust T-T to deliver a cost-effective solution that is built to last.

Trading since 1959, T-T have the experience to design bespoke pump systems, develop waterworks valves and manufacture control systems for a range of industries. We are expertly qualified to match the right products to the right applications. Always ensuring the most effective and reliable solution, our highly qualified team is committed to being more than helpful throughout the entire process and beyond, whether simply buying a product or having a complete system designed, installed, commissioned and serviced.

For technical information and prices visit ttpumps.com. We also have a printed product catalogue which includes technical information and prices.

To request a copy, call us on +44 (0) 1630 647200
ABOUT T-T

T-T are one of the UK’s most reliable manufacturers and suppliers of pumps, pumping stations, valves, controls and other specialist equipment.

OUR STAFF

Employing over 150 people, T-T is a growing company that truly recognises the power of its most precious asset, its staff. We take pride in providing a friendly, driven and cohesive working environment, in which all employees are appreciated, encouraged and rewarded.

We believe that this collaborative environment is the reason why we develop the most innovative products on the marketplace, standing strong as an industry leader. We have a supportive team of confident and knowledgeable engineers who are on-hand to help you with all your water control requirements.

OUR VALUES

We take pride in providing a friendly, driven and cohesive working environment by establishing our three core values.

Our values help us achieve a unified working environment where our productivity is maximised. This results in superior quality products and service for our customers. To read more about our company values visit our website ttpumps.com.
HISTORY

T-T was founded way back in 1959 as a general engineering company in Stoke-on-Trent. In 1970 we began manufacturing and supplying pumps and a decade later we expanded into electrical control panel production. Below is just a few of our achievements over the last 60+ years!

1959
T-T was founded as Vanroy on the 17th March, a general engineering company based in Burslem, Stoke-On-Trent.

1960
We began manufacturing and supplying pumps

1969
Company bought by Thrige Titan of Denmark. The company then employed 43 People.

1970
T-T started design and manufacture of electrical control panel.

1979
Vanroy rebranded and became T-T!

1980
Aquaflow valves was born!

1984
T-T Environmental and Agricultural division was formed. T-T supplied booster set for Olympic hockey pitch at the London 2012 Olympics.

1988
T-T Controls division was created.

1989
The T-T Controls division was created.

1993
T-T began working with London Underground.

1994
Launched Planet Range of Package Pumping Stations.

1998
T-T celebrated their 50th anniversary and was commemorated it by planting trees.

2004
Aquaflow merged with T-T and T-T achieved BBA accreditation of Planet Range of Package Pumping Stations, we have never had a failed tank since!

2009
Built state of the art Service and Repair centre. T-T also provided special package pumping station for Grand Designs project with the conversion of the Tenby Lifeboat Station.

2012
T-T installed a Hi-Dro Boost system at Glastonbury for cooling and cleaning solar panels.

2013
T-T installed their first HBC Biocell in Surrey. Became sole distributor of SAER products in the UK. T-T also won the Apprenticeship award at the Cheshire Business Awards!

2015
Management buyout – focus on supplying pumps, pumping stations, control panels and electrical monitoring systems.

2018
T-T also won the Apprenticeship award at the Cheshire Business Awards!

2019
T-T celebrated their 60th Anniversary.
WORKING WITH T-T

T-T pride themselves on developing collaborative and successful working relationships.

CUSTOMISED SOLUTIONS

We recognise that every client and industry has different requirements and therefore all our divisions work together as one to provide you with tailored solutions that meet your specific needs. We have the ability to design, manufacture and supply a range of pumps, valves, controls and pumping systems that are customised to suit your requirements. We can utilise our in-house 2D and 3D design capabilities along with our advanced manufacturing techniques to ensure your liquids are under control.

HOW WE OPERATE

FAST UK DELIVERY

Next working day deliveries for the UK & Mainland Scotland is our normal option, deviations to our normal delivery, because of size or weight will be advised by our sales department. Courier service is also available for urgent orders and our sales team will be happy to advise you of the service and costs.
TRUSTED AROUND THE WORLD

We can provide a comprehensive service to meet your delivery requirements which are both, practical and economic, worldwide delivery solutions. You can be confident that we can deal with all the documentation to ensure a trouble free delivery.

Take a look at where just some of our products are situated...
VISIT OUR WEBSITE

BUY ONLINE & TECHNICAL SUPPORT

- Save an additional 5% off your order
- Use product codes in the catalogue to easily navigate
- Enquire & request quotations
- Special offers & bulk-buy promotions
- Download datasheets & technical information
- How to guides, videos & case studies

SIGN UP FOR AN ACCOUNT

- Personalised dashboard set up for your requirements
- View orders & reorder easily
- Sign up to for our CPD programme, technical drawings and our newsletter
- Apply for a credit account
- All that you need in one place!

CONTACT US

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8am – 5pm Friday

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Web
www.ttpumps.com
Shop online securely, 24/7

Email
response@ttpumps.com

Post
Onneley Works, Newcastle Road, Woore, Cheshire, CW39RU, United Kingdom.

Trade Counter
Onneley Works, Newcastle Road, Woore, Cheshire, CW39RU, United Kingdom.
8am – 5pm Monday – Friday
T-T manufactures and is the sole or main UK agent for a wide range of pumps. We constantly strive to improve the features of our range and introduce new products, providing better efficiency and reliability, resulting in long term benefits for our customers and the environment.

With over 60 years experience in the pump industry, our broad knowledge and expertise in this field allows us to offer a wide range of specialised products with over 1000 pump models ranging from 0.15kW to 1000kw, suitable for a diverse range of applications.

APPLICATIONS:

PRODUCT RANGE:
- DRAINAGE PUMPS
- SEWAGE PUMPS
- CONTRACTORS PUMPS
- ENGINE DRIVEN PUMPS
- CLEAN WATER PUMPS
- INDUSTRIAL PUMPS
- PUMP ACCESSORIES
Our selection of submersible drainage and de-watering pumps have been selected for their innovative features.

- Robust and reliable in design these drainage pumps have been developed to suit every purpose.

- Available in a choice of materials, including cast iron, stainless steel and bronze.

- The extensive product range includes small water feature pumps through to ATEX approved high-head pumps, which can raise liquid up to 60m.

Sewage handling is an important daily process in many applications, we aim to provide not only energy efficient but cost-effective waste products.

- This range is easy and economical to maintain.

- Our innovative portfolio of sewage pumps are available with a range of impellers to ensure we have a complete selection of pumps to cover all applications.

- Our technicians have a vast wealth of knowledge in providing effluent and sewage systems.

Our contractors pumps are widely used for de-watering.

- Perfectly suited for a range of applications, including construction, quarrying, mining and many other applications.

- Portable and simple to use, yet endlessly effective.

- Robust and reliably designed to provide years of dependable use.

Our range of portable engine driven pumps can go anywhere, where fast removal of nuisance water is required.

- They combine a reliably high performance with an impressively lightweight design.

- Ideal for use in emergency situations or in areas that cannot accommodate a full-size pumping system.

- The different models available can be customised to include a trolley or frame for ease of transportation.

DRAINAGE PUMPS

SEWAGE PUMPS

CONTRACTORS PUMPS

ENGINE DRIVEN PUMPS
TECHNICAL EXPERTISE

Our in-house technical sales team will source you the best selection of products and design to meet with your specifications whilst ensuring the most cost effective and reliable solution.

INSTALLATION & COMMISSIONING

T-T can offer the installation of all the electrical and mechanical equipment, plus a full commissioning service ensuring that your system operates in optimal condition and to your required specifications.

CLEAN WATER PUMPS

- This range includes booster sets, well and borehole pumps and washdown sets.
- Suitable for applications including water supply, boosting, cooling circuits, irrigation, heating and ventilation, leisure and many more.
- Whether the products are an off-the-shelf pump or a bespoke pumping system, all the pumps in this range utilise the latest pump technology to ensure reliability and efficiency is always achieved.

INDUSTRIAL PUMPS

- Rugged and reliable products for heavy duty day to day use.
- These products are continuously rated and fully repairable, and they’re perfectly suitable for use with the process industry for water to lubricants, fuels, light oils, and grease.
- There is a huge variety of products, including a number of advanced transfer pumps and ATEX transfer pumps, hand pumps, pneumatic pumps, flow meters, nozzles, filters, and even mini fuel stations.

PUMP ACCESSORIES

- We offer a range of accessories to accompany your pumps, these range from auto-couplings, to hose and fittings.
- We have vast experience in supplying complete pumping solutions and therefore can offer a range of lifting equipment, pump stands and a wide range of spare parts available at short lead times.
- We ensure our pump accessories are always the highest quality and economical options available.
OUR DIVISIONS:

T-T Controls®
T-T Controls has an established reputation for high standards, quality and client satisfaction in the production of control panels and systems. As specialists in bespoke projects we provide controls to suit your specific motor control and automation requirements.

**PRODUCT RANGE:**
- STANDARD CONTROL PANELS
- SEWERS FOR ADOPTION CONTROL PANELS
- BESPOKE CONTROL PANELS
- LEVEL CONTROL
- FLOAT SWITCHES
- PRESSURE CONTROL
- SPEED CONTROL
- MONITORING
- ENCLOSURES

**APPLICATIONS:**
- Sports Ground
- Biogas
- Agriculture
- Quarry
- Industrial
- Water features/fountains
- Water Treatment Works
- Marine
- Potable Water
- Leisure
- Housing Estate
- Food Processing
- Brewery
- Motorways
- Underground and Rail
- High Rise Buildings
- Borehole
- Single Dwellings
- Building Site
- Groundworks/civils
- Concrete Batching Plant
Our most popular and versatile range of Standard DOL / ASD control panels. The Libra range offers extensive choice of single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies. Available in direct on line (DOL), or star-delta (ASD) starting for larger motors, with various optional extras enabling customisation to suit your requirements, including telemetry monitoring.

All control panels are manufactured at T-T’s premises by a team of skilled wire-personnel, with each panel passing rigorous inspection and testing prior to despatch.

If you’re looking for a reliable way to control sensitive liquids, then float switches are an economical and efficient choice.

FEATURES:
- Easy to install in tanks, sumps and hard to reach places
- Low maintenance, so you’ll get long-term reliability without the need to recalibrate
- Durable yet lightweight due to the heavy-duty materials used

Accommodation for your control panel can be provided from our extensive range of kiosks and other enclosures, in a variety of materials including steel with protective coatings, stainless steel, polycarbonate and GRP for indoor and outdoor use.

FEATURES:
- Robust construction
- Weatherproof
- Plywood backboards for equipment mounting
- Can be supplied with heating and lighting requirements
- Generator cat flap available.

The SEER unit is an advanced monitoring system. The unit can monitor a number of variables and is the most advanced on the market.

- The unit ensures 24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.
- This monitoring system uses cloud based technology for real time reporting and analysis of the pumping station.
- The intuitive dashboard allows you to see exactly what is happening with your system no matter where you are in the world.
- The system holds historical data and the reporting feature allows you to ensure your pumping system is working to its maximum efficiency.

To see how SEER works please turn over.
HOW DOES SEER MONITORING WORK?

1. The SEER unit is installed in the pumping station control panel kiosk.

2. The SEER unit sends information to the cloud.

3. The data is collected and distributed as necessary.

4. Any alarms are highlighted to the T-T Service team.

5. If necessary the T-T Service engineers are deployed to site.

6. The customer can view the pumping station status and activity on the T-T Pumps website SEER portal.

7. The SEER administration team can assess the historical reports to ensure the pumping station is working as intended. They can decipher if there are any external factors for example voltage drop affecting the pumping station and suggest changes to keep the pumping station in a healthy working order.

SEER MONITORING UNIT
- Power supply
- High level
- Pump failure: Pump No.1
- Pump No.2
- Voltage monitoring
- Pump current
- Pump operating
- Pump under-load
- Pump seal leak
- Wet well level
- Remote control
- Trip reset
- Pump start
- Remote control active

CLOUD NETWORK
MACHINE TO MACHINE
INDUSTRIAL SIM

DATA TO T-T WEBSITE
Website ttpumps.com

ALARM CONDITION
Alarm to customer via text or email multiple recipients to selected people

T-T Service
SEER Administration

Customer Portal

Customer

THE CUSTOMER CAN VIEW ALL SITES UNDER THEIR CONTROL

Service Engineer
The Service engineer can get the full history integrated with the pumping station history. They can also reset remotely.
T-T Flow are professionals in the design, manufacture and distribution of a range of engineered waterworks valves and associated ancillary equipment to the water, process and allied industries.

T-T Flow offer a large product selection for many applications. It is not limited to manual wedge gate valves, swing check valves and air valves, but extends to complete project packages incorporating actuated valves, fabricated operating equipment, pipework and ancillaries.

PRODUCT RANGE:

Our flexible approach allows the supply of just a single valve, a combination of stock products or the ability to work with our clients to provide a complete engineered valve package, complemented with ancillary equipment.

- AIR VALVES
- BALL VALVES
- BUTTERFLY VALVES
- CHECK VALVES
- CONTROL VALVES
- FLAP VALVES
- FLOAT VALVES
- GATE VALVES
- KNIFE GATE VALVES
- PENSTOCKS
- PLUG VALVES
- PRESSURE REDUCING VALVES

APPLICATIONS:

Sports Ground  Biogas  Agriculture  Quarry
Industrial  Water Treatment Works  Marine  Potable Water
Water features/fountains  Leisure  Housing Estate  Food Processing
Brewery  Motorways  Underground and Rail  High Rise Buildings
Borehole  Single Dwellings  Groundworks/civils  Concrete Batching Plant
Resilient seat wedge gate valve used for pipeline isolation.
- Unique lightweight ductile iron design
- Wedge guides and rolled spindle thread for reduced operating friction
- Integral captive wedge nut for optimal lifespan
- Wax filled fasteners for corrosion resistance
- Stem seals replaceable under pressure
- Body gasket locates within recess to prevent being blown out.

The penstock valve controls water flow via a sliding gate acting upon a mechanically controlled spindle.
- Bi-directional penstocks
- Available with either square or rectangular aperture
- Resilient sealing to all four sides.
- Robust closed frame
- Designed for wall mounting
- Handwheel, square cap, gearbox or actuator options available
- Fabricated in stainless steel to ensure durability and reliability, and meets the demands for accurate flow control.

Sinking ball check valve used to prevent reverse flow. Suitable for water and wastewater applications up to 60°C
- DN32 to DN50 BSP female threaded
- DN65 to DN300 flanged PN10; on request PN16
- 100% free passage
- Bolted inspection cover
- Integral flange gaskets (UTI DN200)
- Robust epoxy coating
- Suitable for both horizontal and vertical installation

A butterfly valve is used to stop, control and start the flow of fluids. They are used for pipeline isolation and modulation and are suitable for clean water applications up to 90°C.
- Handle will open or close the valve through a 90° turn
- Replaceable liner
- Various disc materials
- Install between PN10/16/25 flanges
- WRAS approved
- Larger sizes on request
- Notched lever, handwheel, gearbox or actuated operation
- Wafer, double and triple offset and lug options available.
Metal seat swing check valve with an optional lever weight used to prevent reverse flow.

- Unique lightweight ductile iron design
- Durable fusion-bonded epoxy coated
- Suitable for horizontal and vertical installation
- Positive hexagonal drive between shaft and hanger
- Optional external lever arm and weight assembly
- Drilling bosses and ½” BSP air release as standard
- Robust low maintenance design
- Safety guards available

The single large orifice air valve and the double orifice air valve have three functions:

- Efficient release of air to prevent pressure build-up
- Ingress of air to prevent vacuum, in the pipe system
- Controlled bleed of gas to maintain stability

FEATURES

- Directly acting solid cylindrical float
- Lightweight compact design
- Excellent flow capacity
- Drain valve
- Corrosion resistant construction
- WRAS approved

Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline.

- Wafer semi-lugged one-piece ductile iron body
- Stainless steel chamfered edged polished gate to effectively cut through media
- No internal cavities avoids sediment accumulation
- Adjustable gland follower allowing in-service maintenance
- U-shaped NBR seal in one-piece
- Corrosion resistant construction
- O-ring on raised-face for flange joint integrity
- Handwheel operated (cap and ISO5210 input interface-on request)

ADDITIONAL PRODUCTS & SERVICES

- Ductile iron pipe fittings and fabrications
- Extension spindles
- Floor pedestals
- Jointing materials
- Mounting kits
- Outreach support brackets (adjustable)
- Pipe couplings and adaptors
- Valve open/closed status sensing options
- T keys
- Full actuation services
T-T Pumping Stations have dedicated technicians who focus on pumping systems from the smallest to largest schemes, whether this be a simple system or a highly complex scheme requiring many disciplines, our experienced engineers have the skills and knowledge to provide you with a complete solution from initial concept to final handover.

OUR RANGE
- ADOPTABLE PUMPING STATIONS
- PRECAST CONCRETE SUMP
- BBA APPROVED PACKAGE PUMPING STATIONS
- ABOVE GROUND PUMPING STATIONS
- SEWAGE TREATMENT PLANTS
- RAINWATER HARVESTING
- INDUSTRIAL PUMPING STATIONS
- DOMESTIC PUMPING STATIONS

APPLICATIONS:
T-T offer a range of pumping stations that are compact overground package pumping station suitable for surface water, sewage and drainage applications where a conventional below ground pumping station is not a viable option.

These fully assembled lifting stations are manufactured in single or dual pump options and have control equipment fitted as standard.

We also have small domestic lifting units which are suitable for basement drainage and white goods waste removal.

T-T works with all of the UK’s leading housing development companies, to supply a reliable and cost-effective pumping solution, which will assist in reducing overall build costs on the development.

- Adoptable stations will have to comply with the current requirements of Sewers for Adoption and addendums by the local water company
- Lead time and adoption is longer
- Running and operating costs are the responsibility of water companies after adoption.

Sewers for Adoption

SEWERS FOR ADOPTION

For housing developments, it’s both practical and cost-effective to construct a wastewater and sewage pumping station that can be ‘adopted’ by the local water company – eliminating the developers’ responsibility for future maintenance and running costs.

WATER AUTHORITIES

We have experience working with all water authorities.

WATER COMPANY
REGIONS FOR ENGLAND, SCOTLAND AND WALES

Scottish Water
Northumbrian Water
United Utilities Water
Yorkshire Water
Anglian Water
Severn Trent Water
Welsh Dwr Cymru Water
Thames Water
Southern Water
Wessex Water
South West Water

The XL and XXL Planet Range of Package Pumping Stations, designed and manufactured by T-T Pumps, provide an efficient and economical way of installing a sewage/drainage pumping station, plus providing large retention volumes integral to a single chamber design.
The Planet® Range of Package Pumping Stations, designed and manufactured by T-T and approved by the BBA (British Board of Agrément), provide an efficient and economical way of installing a sewage/drainage pumping station.

**MERURY® SINGLE/DUAL* PUMP**

The Mercury® is ideal for small flows from a single dwelling and where excavation depth is limited.

*Dual pumps only available with 50mm Vortex / Grinder.

**VENUS® SINGLE/DUAL* PUMP**

The Venus® chamber is the most popular size for use in a single dwelling, toilet block, or small office.

*Dual pumps only available with 50mm Vortex / Grinder.

**SATURN® DUAL PUMP**

The Saturn® chamber is suitable for small housing and industrial / commercial developments, restaurants, small hotels / nursing homes and caravan sites.

**JUPITER® DUAL PUMP**

The Jupiter® chamber is suitable for larger developments, hotels, hospitals and sewage works. The basic unit is capable of special build modification to provide capacities up to 15,500 litres, and can be incorporated into schemes where, for example Sewers for Adoption specification is required.
T-T Environmental & Agricultural is a division of T-T and was formed to focus on effluent treatment and anti-pollution products. Many of these products have been in our portfolio for sometime, but demand has made us realise that many of our clients benefit from our ability to provide a combination of products and skills from a single source.

T-T have a distinctive advantage when dealing with sensitive environmental systems. We are able to merge our vast experience and expertise in pumps, controls, valves and service with the support of our internal design capabilities.

PRODUCT RANGE:

As a sole distributor in the UK and Ireland, T-T Environmental & Agricultural is made up of a range of T-T and Cri-man products:

- AERATION
- ANAEROBIC DIGESTION
- CHOPPER PUMPS
- CLEAN WATER PUMPS
- FUEL PUMPS
- GAS PUMPS
- LAY-FLAT/SUCTION HOSE
- MIXERS
- UMBILICAL PUMPS
- SEPARATORS AND SCREENING
- TRANSFER PUMPS

APPLICATIONS:
Submersible mixers are used in digester’s to mix and homogenise the substrate, thus increasing the output of the plant and prevent solids settling down which in the long run might reduce the efficiency of the plant, for instance a decrease in storage capacity due to settlement.

The pumps that we supply for Agriculture and Anaerobic Digestion are both submersible and external motor-driven pumps. They are used to feed the primary digester to handle the substrate between digester and separator or for mixing through the nozzles inside the digester. In agricultural applications they are suitable for chopping and transferring slurry and liquids containing sand and particulate.

Treatment processing can be dramatically improved by extracting the major proportion of the solids matter at a desired stage of the process by introducing a Separator. The liquid fraction can be used as fast absorbing fertiliser through irrigation and the solids fraction may be used for slow release fertilizer at a later stage.

The range of high performance aerators have excellent oxygen transfer and can be installed without draining the aeration tank. The units provide excellent convection patterns allowing economical spacing of multiple units. These aerators can be applied in emergencies when treatment plants fail to meet consistent levels.
The HBC Biocell takes slurry and converts it into hygienic cattle bedding through an aerobic process. Firstly, a separator ensures the separation of the solid and liquid fractions in manure, through the natural aerobic process. The temperature can reach up to 70°C to produce pasteurised dry matter.

The HBC machine consists of a chamber for the stabilisation process, a mixing system, air injection fan, vapour extraction fan, temperature sensors (for process control), load cells (for process control) and an electronic control system.

1. TBM mixer to homogenise the manure
2. PTS submersible pump to feed the Separator
3. Separator to divide the solid fraction from the liquid fraction
4. HBC Biocell for bedding recovery
5. PT vertical pump for flushing
6. Valve for flushing
7. PTH pump for tractor

The HBC Biocell is an economic machine, by using the solid waste for bedding as opposed to traditional bedding methods (straw etc.) return on investment is achieved in 4 to 5 years.

To order call: +44 (0) 1630 647200
Or visit our website to request a quote: www.ttpumps.com
OUR DIVISIONS:

T-T Service®
For efficient and cost effective pump maintenance you can rely on T-T. With our skilled in-house team and on-site engineers we are able to offer a comprehensive after sales service, with service agreements for your pumps, pumping stations, controls, panels and valves.

The owners/operators of pumping stations have a duty of care to ensure hygienic operation and minimal environmental damage, which if breached can result in serious legal consequences. Unexpected failures of pumping stations can be minimised with T-T Service’s comprehensive support.

SERVICES

- SERVICE CONTRACTS FOR PERIODIC MAINTENANCE
- MONITORING OF PUMPING STATIONS
- EMERGENCY REPAIRS AND SUPPORT
- TRAINED AND SKILLED MOBILE SERVICE TEAMS
- EXTENSIVE WORKSHOP WITH FULL TEST FACILITIES
- REPAIRS TO ATEX STANDARD
- VAST STOCK HOLDING OF SPARES AND PRODUCTS
T-T ARE ON HAND 24 HOURS A DAY, 365 DAYS OF THE YEAR WITH AN EMERGENCY BREAKDOWN SERVICE.

When unexpected failures occur, our service department has the internal resources for any emergency pump repairs and reactive maintenance, through our emergency breakdown service. Whether you have a broken pump, or a faulty pumping station our service teams will be on hand to help with any pump maintenance and emergency pump repair you require.

We understand the issues that can be caused by a broken pump, whether that be in a commercial or domestic property. However, our skilled team have the knowledge and resources readily available to get to your site, access the situation and make any pump repairs required to get your pumps up and running as soon as possible.

How we can help you:

- Mobile service teams
- Large stock of products and spares
- Full workshop facilities with highly skilled workforce
- Full technical support for pumps, controls, valves and ancillaries
- Design capacity for pumping and electrical systems.

In addition we have partner organisations who can provide:

- Tankering and jetting
- Over pumping
- Civil engineering.

FOR EMERGENCY BREAKDOWNS CALL:

+44 (0) 1630 647200
## BENEFITS
- Reduced running costs including energy and maintenance
- Greater life expectancy for pumping equipment
- Reduced risk of breakdown with its resultant problems and inconvenience
- Better plant utilisation and return on capital
- Improved environmental conditions.

## SERVICE AGREEMENTS AND PREVENTATIVE MAINTENANCE

### BENEFITS
- Reduced running costs including energy and maintenance
- Greater life expectancy for pumping equipment
- Reduced risk of breakdown with its resultant problems and inconvenience
- Better plant utilisation and return on capital
- Improved environmental conditions.

### SERVICE

<table>
<thead>
<tr>
<th>Service</th>
<th>Standard</th>
<th>Advanced</th>
<th>Premier</th>
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</thead>
<tbody>
<tr>
<td>Comprehensive service of pumping equipment as per our example service schedule</td>
<td></td>
<td></td>
<td><strong>●</strong></td>
</tr>
<tr>
<td>Return of any failed pumps to our workshop for quotation of repair or replacement</td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
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<tr>
<td>Full comprehensive service reports</td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
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<tr>
<td>Priority breakdown charged at our standard hourly rate</td>
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<tr>
<td>15% discount on all T-T products for the site registered on the Service Agreement</td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
<td><strong>●</strong></td>
</tr>
<tr>
<td>Arrangement of tankering with our partner: 15% administrator fee</td>
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<tr>
<td>Monitoring of pumping station, including weekly status reports and advice of failures (subject to conditions of our out of hours contract)</td>
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<td><strong>●</strong></td>
<td><strong>OPTIONAL</strong></td>
</tr>
<tr>
<td>One pump replacement if required</td>
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</tr>
<tr>
<td>Two breakdowns, one T-T pump and all T-T parts (only available on T-T installed stations)</td>
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</tbody>
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### STANDARD
- The standard package includes two services per year for dual stations and one service per year for a single station.
- This package includes all the standard package benefits plus our monitoring services. Our monitoring service ensures your station is monitored by T-T 24/7.

### ADVANCED
- This package includes all the standard package benefits plus our monitoring services. Our monitoring service ensures your station is monitored by T-T 24/7.

### PREMIER
- Our premier agreement includes two services per year, all parts plus one pump per year if required plus two breakdown call outs included.
DID YOU KNOW?

- We can assist in getting your pumping station jetted and tankered
- We carry out full water testing backed by full certification
- We have a dedicated clean water pump repair workshop

SEWAGE TREATMENT PLANT SERVICING

AT T-T, WE HAVE BRITISH WATER ACCREDITED TREATMENT ENGINEERS, WHO CAN SERVICE YOUR SEWAGE TREATMENT PLANT

WHAT ARE THE BENEFITS OF HAVING YOUR SEWAGE TREATMENT PLANT REGULARLY SERVICED?

- Trouble free operation
- Avoid the risk of pollution and potential fines
- Minimise smells
- Reduce energy and running costs.
SECTION 1:
SPORTS GROUNDS
BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application. WRAS approved.

PACKAGE PUMPING STATIONS
Designed and manufactured by T-T and approved by the BBA, the planet range provides an efficient and economical way of installing a sewage/drainage pumping station.
T-T have the obvious solution when it comes to drainage and have the answer to keep your sports grounds and pitches in optimum condition and playability. Our products provide a reliable and economic option and can already be found at many world famous stadiums and sports grounds.

MK RANGE
Compact, multi-stage vertical pumps. These pumps are configured with a bearing designed to support the axial thrust of the pump and allow coupling to any other standardised motor. Manufactured with dual wear ring and bushes to guarantee maximum reliability.

GATE VALVES
Our robust and resilient selection of gate valves ensure that fluids are isolated within the pipeline. Our cutting edge solutions are suitable for use in a range of clean water and waste water applications.

PANEL AND KIOSK
We can provide a range of standard control and customised equipment for motor control which can be housed in a our wide range of kiosks and enclosures.
**CASE STUDY:**

Another GOAL for the innovative Hi-Dro Boost

A combination of superior product design and specialist expertise in the football pitch irrigation industry

With an impressive portfolio of products for the irrigation industry, T-T have continued to supply great products and services to sport pitches around the country. T-T supplied the innovative Hi-Dro Boost, T-T’s specially designed water booster set to water the main pitch at the bet365 stadium.

The home of Stoke City FC, as with all major sporting grounds, requires water and drainage to keep their pitch in a premium condition. Searching for an efficient and economic product that could provide reliable irrigation with automatic control, the Hi-Dro Boost combined with T-T Controls’ products was the obvious solution. The twin pump Hi-Dro Boost system, comprised of fixed and variable clean water booster sets, has been designed and manufactured to provide both the flow and water pressure required for the football ground.

**Why chose the Hi-Dro Boost?**

Manufactured using the latest pump technology from the T-T range of clean water pumps, the Hi-Dro Boost range are assembled using stainless steel suction and delivery manifolds, WRAS compliant components, and mounted onto a heavy duty engineered stainless steel base plate. The unit is controlled via either mechanical pressure switches for fixed speed applications, or the VASCO variable speed control drive to maintain a constant pressure level during varying flow rate demand.

**Development in pitch maintenance**

Looking back over the years, it is clear to see how professional sports pitches have improved, and how this has become a vital requirement for the football industry. T-T’s range of multistage pumps have been designed with irrigation in mind, and it is due to this advancement in water technology that T-T have contributed to the improvement of football pitches for multiple years. Combined with experienced contractors, many sporting pitches over the country have benefited from an economic, efficient and high quality system for tending to pitch grounds.
T-T have vast experience in offering cutting-edge technologies that deliver energy-efficient and cost-effective pumping systems for the irrigation of sporting pitches or golf courses, an integral part of maintaining the turf. T-T manufacture and supply a range of pumps, valves and control systems to ensure continuous operation.

**CDLF**
A comprehensive range of electrically driven stainless steel vertical multi-stage pumps designed to transfer clear and non-abrasive liquids over a wide range of discharge flow rates and pressures.

**FS SERIES**
A range of 4" submersible pumps, ideal for boreholes with a minimum diameter of 104 mm. The FS series uses axial sliding floating impellers avoiding the interruption of the pump operation due to particulate and sand. 6", 8" and 10" models available.

**IR RANGE**
Ideal for recirculation and air conditioning systems, water supply and pressurisation processes. Various types of mechanical seals are available.
RELATED PRODUCTS

**GREY RANGE**
This submersible electric pump is a solution for pumping sewage and drainage water.

**UNIQA**
Highly efficient, electric submersible sewage pump for effluent removal.

**V-FLOW**
Submersible sewage pumps with a vortex-type impeller.

**E-FLOW**
Submersible sewage pumps with a single-channel impeller.

**VSD**
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

**FLOAT SWITCHES**
Used as level control, or high and low level warning indication.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**AIR VALVE**
Single large orifice air valve suitable for potable and filtered water applications.

**SWING CHECK VALVE**
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

**PLASTIC COMBINATION AIR VALVE**
Management of air in potable, irrigation and treated water.

**PRESSURE REDUCING VALVE**
Used to maintain a pre-set downstream pressure regardless of upstream pressure fluctuations.
SECTION 2:
BIOGAS PLANTS
FLO101 - FLOAT SWITCH

ATEX FLO101 float switch is suitable for pump control and level warning. ATEX FLO101 is ATEX approved and ideal for zone rated areas.

T-T SEPARATOR

Our Separator range of slurry handling equipment is recommended for the solid-liquid separation of slurry.

ETV

Electric vertical chopper pumps, ideal for heavy duty applications. These pumps are mounted on a vertical frame, which includes the suction inlet and they are coupled with electric standard motors by a flexible coupling.
The demand for environmentally efficient and cost effective methods of handling waste products has increased, due to this T-T have developed a product range to meet the needs of the Anaerobic Digestion and Biogas industry. We have the capabilities and expertise to supply pumps, mixers, separators and valves to Anaerobic Digestion and Biogas sites.

**TBM MIXER RANGE**

These submersible, horizontal mixers are fully manufactured in cast iron and AISI 316 stainless steel. They are recommended for mixing and homogenising processes where solids and liquids need to be homogenised. ATEX versions available.

**PTS 65-200 SERIES**

A range of heavy duty submersible chopper pumps, ideal for particularly heavy applications featuring chopping of the solid material suspended in the liquid being pumped. ATEX versions available.

**KNIFE GATE VALVE**

Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline. Handwheel operated (cap and ISO5210 input interface on request).

**AF SERIES**

These submersible, horizontal mixers are recommended for homogenising processes. The design, construction and the use of propellers with self-cleaning profile are guaranteed for long duration and efficiency, even in the most extreme utilisation conditions.

**TBM MIXER RANGE**

These submersible, horizontal mixers are fully manufactured in cast iron and AISI 316 stainless steel. They are recommended for mixing and homogenising processes where solids and liquids need to be homogenised. ATEX version available.
**RELATED PRODUCTS**

**CFS SHREDDER**
Shreds solid materials suspended in the substrate before entering into the digester.

**ETO**
Electric horizontal chopper pumps. Ideal for particularly heavy duty applications.

**MXL**
A lateral mixer powered by electric three phase motor with planetary gearbox.

**PLD SERIES**
The PLD series of pumps are designed for high density fluid.

**GREY RANGE**
This submersible electric pump is a solution for pumping sewage and drainage water.

**UNIQA**
Highly efficient, electric submersible sewage pump for effluent removal.

**CONTROL PANEL**
T-T are specialists in designing, manufacturing and installing custom made control systems.

**SEER MONITORING**
24/7 monitoring of the pumping station, reporting back any alarms and changes in the system.

**KIOSKS**
To accommodate your equipment, suitable for outdoor and indoor applications.

**WEDGE GATE VALVE**
Used for pipeline isolation. Suitable for potable water duties and buried service.

**BALLBRAKE**
Used to prevent reverse flow suitable for wastewater and water applications up to 60ºC.
T-T Environmental & Agricultural focus on effluent treatment and anti-pollution products for effective slurry handling. The range includes chopper pumps, mixers, separators, green bedding equipment and clean water supply.

**PTH/PTO/PTD**
A range of high-pressure, centrifugal, chopper pumps. These pumps have an over-gearbox that can be driven from a carbon steel shaft. They have multi-channel impellers and a double-chopping system. The PTD and PTO options are available in engine driven alternatives.

**FARMWASH**
A range of powerful washdown sets suitable for general farm use and washing. A full kit comprising of a pump mounted on a stainless steel base plate complete with auto-stop/start, hose, fittings and an adjustable nozzle. Custom wash systems available on request.

**T-T SEPARATOR**
Our Separator range of slurry handling equipment is recommended for the solid-liquid separation of slurry.
**HBC BIOCELL**

The HBC Biocell transforms slurry into comfortable and hygienic bedding. It guarantees consistent quality and pasteurisation of the bedding produced from recycled separated solids even under the most unfavourable conditions, permitting substitution of straw bedding.

**KNIFE GATE VALVE**

Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline. Handwheel operated (cap and ISO5210 input interface on request).

**PLD SERIES**

The PLD series of pumps are designed for high density fluid. Combined with a BMC Macerator it can form a system for maceration, homogenisation, and loading for a biogas digester. It comprises of a materials loading tank supplying the double pump pistons and an automatic valve system that permits alternating loading and unloading of the pistons.
Utilising water is the key to success in the agricultural industry, T-T provides solutions for your clean water supply, crops and livestock. Reliable and efficient water supply is vital to dairy farming, therefore T-T have combined their knowledge and expertise in this field, to provide a vast range of pumps, valves and controls which provide both constant and desired flow and pressure.

UMBILICAL SLURRY DRAG HOSE
The Dragman and Dragman Premium hoses are a lightweight slurry hose designed for umbilical slurry drag systems, distributing slurry and manure across agricultural fields. The Dragman is the ideal solution for this because it has been designed to withstand extreme tensile stress, pulling forces and abrasion.

TBM/TBX MIXER RANGE
These submersible, horizontal mixers are fully manufactured in cast iron and AISI 316 stainless steel. They are recommended for mixing and homogenising processes where solids and liquids need to be homogenised. ATEX version available.

WELL PUMP AND BOREHOLE PUMPS
We offer a range of submersible borehole pumps to suit your needs. Providing a cost effective solution we can select a borehole pump that can be used for water and irrigation pumping applications.

POLYCARBONATE CONTROL PANEL
Polycarbonate panel with a glazed door. We manufacture all our standard control panels on site. T-T Controls are specialists in designing and manufacturing custom made control systems for single or multi motor applications for both standard and ATEX zoned contained pump and agriculture equipment.

PTS 65-200 SERIES
A range of heavy duty submersible chopper pumps, ideal for particularly tough applications where chopping of the solid material suspended in the liquid being pumped is required.
RELATED PRODUCTS

PT SERIES
A heavy and robust vertical chopper pump driven by an electric motor.

GREY RANGE
This submersible electric pump is a solution for pumping sewage and drainage water.

IR
Ideal for recirculation water supply and pressurisation.

M SERIES
It permits the transfer of clear water without chemically aggressive substances.

MK
A multi-stage pump allowing fluid to flow through multiple impellers and components.

PACKAGE PUMPING STATION
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

KIOSKS
Ensures that control equipment is safe and protected from the elements and harsh conditions.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

WEDGE GATE VALVE
Used for pipeline isolation. Suitable for potable water duties and buried service.

PENSTOCK
Controls water flow via a sliding gate acting upon a mechanically controlled spindle.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

GREY RANGE
This submersible electric pump is a solution for pumping sewage and drainage water.

PT SERIES
A heavy and robust vertical chopper pump driven by an electric motor.

M SERIES
It permits the transfer of clear water without chemically aggressive substances.

MK
A multi-stage pump allowing fluid to flow through multiple impellers and components.

PACKAGE PUMPING STATION
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

KIOSKS
Ensures that control equipment is safe and protected from the elements and harsh conditions.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

WEDGE GATE VALVE
Used for pipeline isolation. Suitable for potable water duties and buried service.

PENSTOCK
Controls water flow via a sliding gate acting upon a mechanically controlled spindle.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.
SECTION 4: QUARRIES
Here at T-T we understand the importance of reliable products to ensure productivity in tough working conditions. We have the knowledge to provide pumping solutions to meet the requirements of the quarry and mine industry, including pumps for all processes where liquids are to be pumped, even if the liquids contain particles from salt, sand and gravel. Suitable for removal to dust suppression or for cleaning and maintenance purposes.

**KTS**
Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction, quarry and mining industries.

**KTC**
Submersible pump with water cooled motor to ensure a long life in continuous and intermittent operation, with high efficiency and energy savings. For de-watering water transfer for drainage, irrigation and emergency pumping.

**KTH & KTH/S**
Submersible drainage pump made of cast iron for long-lasting durability. High maximum submersion depth due to double mechanical seal, resistant to high pressure. Suitable for civil engineering and construction works, as well as mines and quarries.
NCB
Centrifugal pump meeting EN-733 used for cooling and heating systems and water supply. Various types of mechanical or soft shaft seals and wear rings are available, depending on the required application. The pump can also be supplied coupled to an engine.

J RANGE
This range pumps are self priming, once originally primed with liquid to a maximum suction height of 7.5m. Surface mounted for ease of installation as only the suction pipe needs to be immersed in the pumped liquid. The pumps are highly resistant to abrasion due to solids in the pumped liquid.

POLYCARBONATE CONTROL PANEL
Polycarbonate panel with a glazed door. We manufacture all our standard control panels on site. T-T Controls are specialists in designing, manufacturing and installing control systems.
Every year the quarry industry plays a vital part in the building of homes and the maintenance of our roads and rail networks. T-T supports the modernisation of quarrying methods and equipment that meet the environmental standards required in the United Kingdom and around the world.

**KTA**
Submersible slurry pump with a 4-pole motor for an increased lifetime and easy maintenance. High chrome impeller combined with agitator for pumping heavy slurry, with its slim design and top discharge enabling installation in tight spaces, for example bentonite mixed water in foundation works or muddy/sandy water in concrete batching plants, mines and quarries.

**SKD**
High efficiency and reliability provide a pump with minimal maintenance costs. The pump can also be supplied coupled to various prime movers. Various types of mechanical and soft shaft seals available as standard.

**FS SERIES**
A range of 4” submersible pump, ideal for boreholes with a minimum diameter of 104 mm. The FS series uses axial sliding floating impellers avoiding the interruption of the pump operation due to particulate and sand. Larger models available from 6”, 8”, 10” and 12”
MK RANGE
Compact, multi-stage vertical pumps. These pumps are configured with a bearing designed to support the axial thrust of the pump and allow coupling to any other standardised motor. Dual wear ring and bushes to guarantee maximum reliability.

BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

BALL VALVE
Sinking ball check valve used to prevent reverse flow. Suitable for water and wastewater applications up to 60°C.

SINGLE LARGE ORIFICE AIR VALVE
Single large orifice air valve, having three functions: efficient release of air to prevent pressure build-up, ingress of air to prevent vacuum, and controls bleed of gas to maintain stability.
VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

KNIFE GATE VALVE
Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

KNIFE GATE VALVE
Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline.

WEDGE GATE VALVE
Used for pipeline isolation. Suitable for potable water duties and buried service.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.
SECTION 5:
INDUSTRIAL
With increasing demand by industrial processes for efficient and reliable equipment T-T manufacture and supply for transportation, filling and decanting of water and other often sensitive media. Our heavy duty pumps are ideal for daily use handling liquids including urea, fuel, light oils, lubricants and grease. Customisation is one of our strengths and we have a dedicated team available, ready to help you choose the right pumping and liquid control solution for your application.

**L SERIES**
In-line circulation pumps for hot or cold water with in-line nozzles, suitable for installation for civil and industrial heating.

**IR RANGE**
Ideal for recirculation and air conditioning systems, water supply and pressurisation groups. Various types of mechanical seals are available.

**PACKAGE PUMPING STATIONS**
Designed and manufactured by T-T and approved by the BBA, the planet range provides an efficient and economical way of installing a sewage/drainage pumping station.

**HYDRO BOOST**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

**CUSTOMISED PANEL**
T-T Controls are specialists in designing, manufacturing and installing control systems custom to your needs.

**J RANGE**
This range pumps are self priming, once originally primed with liquid to a maximum suction height of 7.5m. Surface mounted for ease of installation as only the suction pipe needs to be immersed in the pumped liquid. The pumps are highly resistant to abrasion due to solids in the pumped liquid.
DOUBLE ORIFICE AIR VALVE
Aquabrake double orifice air valve is used to prevent pressure build-up, vacuum in the pipe system and to control bleed of gas to maintain stability.

BUTTERFLY VALVE
Wafer pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.

PRESSURE REDUCING VALVE
An accurate and reliable directly-acting pressure reducing valve used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.
RELATED PRODUCTS

GREY RANGE
This submersible electric pump is a solution for pumping sewage and drainage water.

UNIQA
Highly efficient, electric submersible sewage pump for effluent removal.

MK
A multi-stage pump allows fluid to flow through multiple impellers and components.

NCB
Centrifugal pump meeting EN-733 used for cooling and heating systems and water supply.

NCBK
Used for heating and cooling systems and water supply.

M SERIES
Horizontal multistage stainless steel centrifugal pumps suitable for transferring clean liquids.

UNIQA
Highly efficient, electric submersible sewage pump for effluent removal.

MK
A multi-stage pump allows fluid to flow through multiple impellers and components.

EP RANGE
EP Range of transfer pumps are suitable for liquid transfer without particles.

M SERIES
Horizontal multistage stainless steel centrifugal pumps suitable for transferring clean liquids.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

NCBK
Used for heating and cooling systems and water supply.

ADOPTABLE PUMPING STATION
Required for inflows from domestic dwellings and the local water company will adopt it.

KIOSKS
Ensures that control equipment, is safe and protected from the elements and harsh conditions.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

M SERIES
Horizontal multistage stainless steel centrifugal pumps suitable for transferring clean liquids.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

TM
VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

BALLBRAKE
Used to prevent reverse flow suitable for wastewater and water applications up to 60°C.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

M SERIES
Horizontal multistage stainless steel centrifugal pumps suitable for transferring clean liquids.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

TM
VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

BALLBRAKE
Used to prevent reverse flow suitable for wastewater and water applications up to 60°C.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.
SECTION 6: WATER FEATURES
We offer pumps, valves and control equipment which are suitable for lakes, water features and fountains. Our range will ensure that your water display works continuously and efficiently providing the perfect water fall or fountain.

**WAFER CHECK VALVE**
Double plate check valve used to prevent reverse flow, rated to 16 bar. Suitable for clean water applications up to 100°CWRAS approved.

**SINGLE LARGE ORIFICE AIR VALVE**
Single large orifice air valve, having three functions: efficient release of air to prevent pressure build-up, ingress of air to prevent vacuum, and controls bleed of gas to maintain stability.

**PRESSURE REDUCING VALVE**
An accurate and reliable directly-acting pressure reducing valve used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.

**MK RANGE**
Compact, multi-stage vertical pumps. These pumps are configured with a bearing designed to support the axial thrust of the pump and allow coupling to any other standardised motor. Dual wear ring and bushes to guarantee maximum reliability.

**IR RANGE**
Ideal for recirculation and air conditioning systems, water supply and pressurisation groups. Various types of mechanical seals are available.

**BOOSTER SETS**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.
T-T had an enquiry for a replacement control panel which T-T had already previously supplied. The control panel installed at Dumfries House in Ayrshire, Scotland was requested as high priority due to a planned visit from the Queen.

The control panel, which serves a main water feature display, consisting of a fountain situated in the main courtyard, had been damaged due to broken pipework, resulting in the control room being flooded and the panel becoming inoperable. The client explained that they needed the panel to be dispatched within the week, due to Her Majesty The Queen staying at Dumfries House imminently, and her bedroom overlooked the broken fountain.

As standard, a control panel for such a water feature would usually take a minimum of two weeks to manufacture, but due to our client’s urgent request, we were pleased to be able to provide a high priority response. Within T-T there was a swift reaction from the T-T Controls sales, design, assembly, wiring and test teams. We despatched the panel within four working days, which our client was very pleased with, and ensured there was plenty of time for installation and testing.

**CASE STUDY:**

Replacement Control Panel Fit for a Queen!

Control Panel installed at Dumfries House made a priority ready for Her Majesty The Queen’s visit.

T-T had an enquiry for a replacement control panel which T-T had already previously supplied. The control panel installed at Dumfries House in Ayrshire, Scotland was requested as high priority due to a planned visit from the Queen.

The control panel, which serves a main water feature display, consisting of a fountain situated in the main courtyard, had been damaged due to broken pipework, resulting in the control room being flooded and the panel becoming inoperable. The client explained that they needed the panel to be dispatched within the week, due to Her Majesty The Queen staying at Dumfries House imminently, and her bedroom overlooked the broken fountain.

As standard, a control panel for such a water feature would usually take a minimum of two weeks to manufacture, but due to our client’s urgent request, we were pleased to be able to provide a high priority response. Within T-T there was a swift reaction from the T-T Controls sales, design, assembly, wiring and test teams. We despatched the panel within four working days, which our client was very pleased with, and ensured there was plenty of time for installation and testing.
SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

KIOSKS
Ensures that control equipment is safe and protected from the elements and harsh conditions.

BRASS BALL VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

FLOAT SWITCHES
Used for a level control, or high and low level warning indication.

WEDGE GATE VALVE
Used for pipeline application. Suitable for potable water duties and buried service.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

BALLBRAKE
Used to prevent reverse flow suitable for wastewater and water applications up to 60ºC.

TM
SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

FLOAT SWITCHES
Used for a level control, or high and low level warning indication.

WEDGE GATE VALVE
Used for pipeline application. Suitable for potable water duties and buried service.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

BRASS BALL VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

TM
SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

FLOAT SWITCHES
Used for a level control, or high and low level warning indication.

WEDGE GATE VALVE
Used for pipeline application. Suitable for potable water duties and buried service.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

BRASS BALL VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.
SECTION 7: SEWAGE TREATMENT WORKS
Sewage and water treatment works generally uses mechanical, biological and chemical processes to remove contaminants from waste water. Water treatment aims to reduce the pollution contained in the water before it is released. T-T supply heavy duty submersible chopper pumps, aerators and mixers to aid this process.

**V-FLOW/E-FLOW**
The V-Flow and E-Flow series are a range of submersible sewage pumps with a vortex and channel-type impeller for excellent solids passage, avoidance of blockage and ability to handle fibrous material. These pumps also incorporate an explosion-proof motor as standard (suitable for use in zone 1 - hazardous gas areas).

**GREY RANGE**
The Grey range has been developed using cutting-edge technology, featuring an anti-clogging system, a large oil chamber with a leakage detection sensor, two mechanical seals and a cable gland to protect the power cable. ATEX versions are available.

**UNIQA**
Used for heavy duty applications, usually in industrial sewage and wastewater treatment plants. Suitable for liquids that may have solids present. Highly reliable and efficient range of pumps. ATEX versions are available.

**PTS 65-200 SERIES**
A range of heavy duty submersible chopper pumps, ideal for particularly tough applications featuring chopping of the solid material suspended in the liquid being pumped. ATEX version available.
The T-T305, T-T505 and T-T510 submersible pumps are designed for transferring sewage and effluent, and for dirty water drainage. This range of pumps has a shredding action, produced by the impeller rotating against a special serrated suction cover. This reduces any destructible matter to a manageable size for pumping, minimising the risk of blockage and allowing better efficiency and economy.

The Libra range offers extensive choice of single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies where automation is required.
SWING CHECK VALVE
Metal seat swing check valve with an optional lever weight used to prevent reverse flow, it is suitable for potable water, wastewater and sewage applications.

TBM MIXER RANGE
These submersible, horizontal mixers are fully manufactured in cast iron and AISI 316 stainless steel. They are recommended for mixing and homogenising processes in sewage treatment plants and applications in very corrosive liquids. ATEX versions are also available.

GATE VALVE WITH ACTUATOR
Our robust and resilient selection of gate valves ensure that fluids are isolated within the pipeline. Our cutting edge solutions are suitable for use in a range of clean water and waste water applications.

BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for flushing and washing.

BUTTERFLY VALVE
Wafer pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.

WASTEWATER AIR VALVE
The double orifice flanged air valve is suitable for wastewater and sewage applications. Its anti-slam capabilities ensure it reduces the risk of water hammer.
RELATED PRODUCTS

KTA
A submersible slurry pump with a 4-pole motor used for grit removal.

SKD
The pump can also be supplied coupled to various prime movers.

PRESSURE VESSELS
Designed to maintain a predefined liquid pressure.

SKUM SKIMMER
An efficient and versatile method of collecting scum and floating matter from liquid surfaces.

ADOPTABLE PUMPING STATION
Required for inflows from domestic dwellings and the local water company will adopt it.

PACKAGE PUMPING STATION
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

READY SUMP
Pre-cast concrete sump incorporating the requirements to meet adoptable standards.

VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

SEER MONITORING
24/7 monitoring of the pumping station, reporting back any alarms and changes in the system.

FLOAT SWITCHES
Used for as pump control, or high and low level warning indication.

KIOSKS & CONTROL PANEL
Ensures that control equipment, are safe and protected from the elements and harsh conditions.

HINGE VALVE
Metal seat double hinge flap valve with circular aperture to prevent back flow in outfall applications.

PENSTOCK
Controls water flow via a sliding gate acting upon a mechanically controlled spindle.

PRESSURE REDUCING VALVE
Used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.

SKPD
The pump can also be supplied coupled to various prime movers.

VSD
Used for as pump control, or high and low level warning indication.

PRESSURE VESSELS
Designed to maintain a predefined liquid pressure.

SKUM SKIMMER
An efficient and versatile method of collecting scum and floating matter from liquid surfaces.

ADORANTAL
Required for inflows from domestic dwellings and the local water company will adopt it.

PACKAGE PUMPING STATION
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

READY SUMP
Pre-cast concrete sump incorporating the requirements to meet adoptable standards.

VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

SEER MONITORING
24/7 monitoring of the pumping station, reporting back any alarms and changes in the system.

FLOAT SWITCHES
Used for as pump control, or high and low level warning indication.

KIOSKS & CONTROL PANEL
Ensures that control equipment, are safe and protected from the elements and harsh conditions.

HINGE VALVE
Metal seat double hinge flap valve with circular aperture to prevent back flow in outfall applications.

PENSTOCK
Controls water flow via a sliding gate acting upon a mechanically controlled spindle.

PRESSURE REDUCING VALVE
Used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.
T-T Pumps offers a comprehensive range of pumps and valves for the marine, naval and off shore fields. These pumps are designed in corrosive resistant materials to ensure their resilience against salt water and abrasive materials. Our range is portable and easy to maintain, making it perfect for this sector.

KTS
Compact design, high performance and exceptional durability for handling abrasive liquids, widely used in de-watering.

J RANGE
This range of pumps are self priming, once originally primed with liquid to a maximum suction height of 7.5m. Surface mounted for ease of installation as only the suction pipe needs to be immersed in the pumped liquid. The pumps are highly resistant to abrasion due to solids in the pumped liquid. Available in different materials.

IR RANGE
Ideal for recirculation and air conditioning systems, water supply and pressurisation groups. Various types of materials and mechanical seals are available. Available in different materials. RINA, ABS and DNV-GL certified.*

BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

Liberator™ SUBMERSIBLE CONTRACTOR PUMP
A range of 2” and 3” submersible drainage pumps that are compact, light and powerful. They are suitable for groundwater and water containing sand and silt with a maximum solids handling of 7mm. Available in 3” stainless steel.

GREY RANGE
The Grey range has been developed using cutting-edge technology, featuring an anti-clogging system, a large oil chamber with a leakage detection sensor, two mechanical seals and a cable gland to protect the power cable.

*SAER pumps can be certified according to such standards, but models have to be verified on case by case basis, and the cost of the certification is not included in the standard price and must be considered separately.
CONTROL PANEL
We manufacture all our standard control panels on site and put them through rigorous testing to ensure they meet the highest standards. Our panels come ready for installation and you can also buy kiosks to house them indoors or outdoors.

FLOAT SWITCHES
Float switches are used for filling and emptying application such as pump control, or high and low level warning indication.
RELATING PRODUCTS

**Puddlepal**
**SUBMERSIBLE PUMP**
A versatile, portable, submersible, residue pump for clean water. Available in S/S.

**Trencher**
**SUBMERSIBLE DRAINAGE PUMP**
Suitable for ground water and water containing sand and silt.

**Liberator**
**SUBMERSIBLE SOLID HANDLING PUMP**
Provides high resistance to liquids containing sand and gravel.

**KTH**
Submersible drainage pump made of cast iron for long-lasting durability.

**KTA**
Submersible slurry pump with a 4-pole motor for an increased lifetime and easy maintenance.

**UNIQA**
Suitable for liquids which may have solids present.

**ANISTATICA HOSE**
Intended for transfer of fuels and other flammable liquids.

**KIOSKS**
Ensures that control equipment is safe and protected from the elements and harsh conditions.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**SWING CHECK VALVE**
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

**AIR VALVE**
Single large orifice air valve suitable for potable and filtered water applications.

**GATE VALVE**
Suitable for potable water duties and buried service.

**PRESSURE REDUCING VALVE**
Used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.

**VSD**
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.
SECTION 9:
CLEAN WATER TREATMENT WORKS
BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

SKD
High efficiency and reliability provide a pump with minimal maintenance costs. The pump can also be supplied coupled to various prime movers. Various types of mechanical and soft shaft seals as standard.
IR RANGE
Ideal for recirculation and air conditioning systems, water supply and pressurisation groups. Various types of mechanical seals are available.

MK RANGE
Compact, multi-stage vertical pumps. These pumps are configured with a bearing designed to support the axial thrust of the pump and allow coupling to any other standardised motor. Dual wear ring and bushes to guarantee maximum reliability.

NCB
Centrifugal pump meeting EN-733 used for cooling and heating systems and water supply.

FS SERIES
A range of 4" submersible pump, ideal for boreholes with a minimum diameter of 104 mm. The FS series uses axial sliding floating impellers avoiding the interruption of the pump operation due to particulate and sand. Suitable for irrigation. 6", 8" and 10" models available.

T-T supply a range of WRAS approved equipment suitable for use on a clean water treatment or purification plant. Our pumps are suitable for high pressure movement of water and our valves can assist in managing the water flow through the plant. Our control equipment can be customised to allow automation of any motor.
Float switches are used for filling and emptying application such as pump control, or level warning indication. Potable FLO107 is a non-mercury float switch designed for use in potable water applications.

CONTROL PANEL
The Libra range offers extensive choice of single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

KIOSK
Your control panel housing can be provided from an extensive range of kiosks and other enclosures, in a variety of materials including steel with protective coatings, stainless steel, polycarbonate and GRP, for outdoor and indoor applications.
SWING CHECK VALVE
Metal seat swing check valve with an optional lever weight used to prevent reverse flow, it is suitable for potable water, wastewater and sewage applications.

GATE VALVE
Resilient seat wedge gate valve used for pipeline isolation. The valve is suitable for potable water duties and buried service.

BUTTERFLY VALVE
Wafer pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.
RELATED PRODUCTS

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

VSD
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

AIR VALVE
Single large orifice air valve suitable for potable and filtered water applications.

PRESSURE REDUCING VALVE
Used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.

HINGE VALVE
Metal seat double hinge flap valve with circular aperture to prevent back flow in outfall applications.

PENSTOCK
Controls water flow via a sliding gate acting upon a mechanically controlled spindle.
SECTION 10:
HOTELS
AND LEISURE
The Loopak is a range of macerator pumps designed to automatically grind and discharge wastewater originating from either a kitchen or bathroom.

The Trojan range of compact pumping stations provide a complete unit supplied with pumps, valves and control panel, which is easily installed and maintained. The Trojan range are suitable for wastewater removal where a conventional pumping station isn’t a viable option.

The Loopak is a range of macerator pumps designed to automatically grind and discharge wastewater originating from either a kitchen or bathroom.
We understand the serious role pumps and pumping systems play in the challenges of running holiday parks and hotels, not only do they need to run pretty much continuously, they also need to be energy efficient. T-T manufacture, supply and service a range of pumping equipment that is suitable for this demanding sector.

**BOOSTER SETS**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

**GREY RANGE**
The Grey series is a range of submersible pumps for drainage systems, designed with suitable hydraulics and motors to generate high performance and low consumption with outstanding versatility.

**PACKAGE PUMPING STATION**
The Planet range of package pumping stations are designed and manufactured by T-T and approved by the BBA to provide an efficient and economical way of installing a sewage/drainage pumping station.
M SERIES (Stainless Steel)
The M Series is a cost-effective transfer pump for clean water. This cast-iron self-priming pump is extremely reliable for the boosting and transferring of clean water.

BUTTERFLY VALVE
Butterfly valves are primarily used for pipeline isolation and modulation. For use in the leisure industry a valve with a stainless steel disc would be necessary to ensure suitability with chlorinated water.

STAINLESS STEEL CONTROL PANEL
Due to the nature of the environment we would recommend a stainless steel control panel, ensuring rust resistance. We can provide control equipment to control any 1Ph 230V or 3Ph 400V motor.

NCBZ
The NCBZ is a bare shaft end-suction centrifugal pump complete with electric motor on a base plate. The motor unit and the rotating part of the pump can be taken away without removing the pump body from the system piping. This pump is suitable for recirculating plants, heating, air conditioning, water supply and pressurisation.
TROJAN

The Trojan range of compact pumping stations provide a complete unit supplied with pumps, valves and control panel, which is easily installed and maintained. The Trojan range are suitable for wastewater removal where a conventional pumping station isn’t a viable option.

CASE STUDY:

Seven Trojan’s installed at Warwick Castle Lodges

Ancient Grade I listed woodland requires alternative drainage solution.

As part of the Warwick Castle development, thirteen luxury lodges have been constructed in the ancient woodlands. These lodges are their Knight’s Village Lodges, where attendees can have an exclusive sleepover in the woodland before experiencing a day of entertainment, including re-enactment battle parties, banquets and jousting. Each lodge comprises of a double bedroom and two bunks with wet room and terrace which is suitable for the whole family.

Due to the lodges being located in an ancient woodland which is Grade I listed, the consultants and contractors had to abide to strict construction rules. One which permitted excavations beyond a certain depth. This meant that a traditional underground drainage pumping station was not a viable option.

T-T proposed and later supplied seven Trojan units. The Trojan units served individual luxury lodges and the rising mains ran under raised board-walks to the point of discharge, which then transported the effluent via gravity to a T-T Planet Range package pumping station for removal to the nearest sewer system.
### RELATED PRODUCTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PUDDLEPAL</strong></td>
<td>Portable drainage pump of removal for water with the ability to pump down to 1mm.</td>
</tr>
<tr>
<td><strong>GOLIATH</strong></td>
<td>Versatile drainage sump pump made of stainless steel and resistant to corrosion.</td>
</tr>
<tr>
<td><strong>BOOSTER SET</strong></td>
<td>Clean water booster set comprising of self-priming stainless steel pump and tank.</td>
</tr>
<tr>
<td><strong>UNIQA</strong></td>
<td>Highly efficient, electric submersible sewage pump for effluent removal.</td>
</tr>
<tr>
<td><strong>CM/CMP</strong></td>
<td>A single stage centrifugal pump for the transfer of clear water, with closed impeller.</td>
</tr>
<tr>
<td><strong>FC</strong></td>
<td>A centrifugal pump for the drainage of clear water without abrasive particles.</td>
</tr>
<tr>
<td><strong>M SERIES (S/S)</strong></td>
<td>A transfer pump for clean water, manufactured in stainless steel for resistance to corrosion.</td>
</tr>
<tr>
<td><strong>FS RANGE</strong></td>
<td>4” submersible pump, ideal for boreholes with a minimum diameter of 104 mm.</td>
</tr>
<tr>
<td><strong>UTILITY BOX</strong></td>
<td>Polyethylene tank complete with pumps for removal of waste water from domestic drains.</td>
</tr>
<tr>
<td><strong>SEER MONITORING</strong></td>
<td>An advanced monitoring system to ensure your equipment is working 24/7.</td>
</tr>
<tr>
<td><strong>POTABLE FLO107</strong></td>
<td>A clean and potable water float switch for effective level control in tanks. WRAS approved.</td>
</tr>
<tr>
<td><strong>PLASTIC AIR VALVE</strong></td>
<td>Combination, three function, automatic air valve for the efficient management of air.</td>
</tr>
<tr>
<td><strong>FLOAWAY</strong></td>
<td>A back flow prevention valve for domestic and commercial applications.</td>
</tr>
<tr>
<td><strong>BALLBRAKE</strong></td>
<td>Used to prevent reverse flow suitable for wastewater and water applications up to 60ºC.</td>
</tr>
<tr>
<td><strong>HINGE VALVE</strong></td>
<td>Metal seat double hinge flap valve to prevent reverse flow in outfall applications.</td>
</tr>
</tbody>
</table>
SECTION 11: HOUSING
ADOPTABLE PUMPING STATION
Required for inflows from domestic dwellings where the local water company will adopt the pumping station on satisfactory completion to Sewers for Adoption specification and contributing standards.

PACKAGE PUMPING STATIONS
Designed and manufactured by T-T and approved by the BBA, the Planet Range provides an efficient and economical way of installing a sewage/drainage pumping station.
T-T have vast experience in supplying both precast concrete pumping stations that meet the requirements for Sewers for Adoption and all local water authority addendums and private package pumping stations suitable for smaller dwellings. Whatever your requirements, T-T have the expertise to provide water and drainage equipment suitable for housing estates.

**GREY AND UNIQA RANGE**
The Grey and Uniqa series are a range of submersible pumps for drainage systems, designed with suitable hydraulics and motors to generate high performance and low consumption with outstanding versatility.

**ANTI-FLOOD VALVE**
The double flap valve is part of the Floaway range. It is used for effective backflow stops waste liquids back flowing from the sewage network into your property.

**BOOSTER SETS**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application. WRAS approved.
T-T Pumping Stations are experts in providing adoptable pumping stations to all Water Authority requirements and to Sewers for Adoption standards. We have recently supplied a Bovis Homes development with a United Utilities, 7th Edition Sewers for Adoption Type 3 Pumping Station. The sewage pumping station was installed to service the 245 house Bovis Homes development, located in Haslington, Cheshire.

The adoptable station was a 3m internal diameter by 6.35m deep concrete chamber with a separate, adjacent valve chamber. The pumping station requires an emergency storage of 39.2m³ to cater for the occupancy of the 245 dwellings. The drainage pumping station had all the requirements demanded by United Utilities including control equipment housed in a road side weatherproof kiosk. The sewage pump station was supplied with two DGN pumps, one ultrasonic level detection system and one ATEX FL0101 high level alarm float switch. T-T also installed a Text-Tel telemetry unit to monitor any alarms prior to adoption.

Due to a low point along the rising main a washout chamber and air release valve was required. The washout chamber is designed to ensure any sediment that may settle in the lowest point of the raising main can be washed out via a manhole access. The air release valve ensures that there is no air entrapment in the pipelines, thus avoiding water hammer. The delivery and installation schedule of the sewage pumping station was arranged to suit the requirements of the overall site program and the adoptable pumping station was commissioned to ensure full working order. T-T handled the adoption process and ensured a smooth handover to United Utilities.

CASE STUDY:

United Utilities Adoptable Pumping Station Installed for Bovis Homes

T-T Pumping Stations are experts in providing adoptable pumping stations to all Water Authority requirements and to Sewers for Adoption standards. We have recently supplied a Bovis Homes development with a United Utilities, 7th Edition Sewers for Adoption Type 3 Pumping Station. The sewage pumping station was installed to service the 245 house Bovis Homes development, located in Haslington, Cheshire.

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“I have used T-T Pumps for over 25 years and I have always received good, professional advice. In one instance a S104 station which was particularly difficult to achieve technical approval with United Utilities, T-T’s Technical Manager attended a meeting with me and his knowledge proved invaluable in finally securing approval. T-T provide a prompt detailed design to enable submission for approval [to the water authorities]. During installation the T-T team attended a pre-start meeting and were always willing to help and assist in the civils and mechanical and electrical installation. They are very accommodating in adjusting dates to meet our site deadlines. T-T give good knowledgeable advice from sales through to delivery and are always willing to help.”

The Estimating Manager from Bovis Homes
CASE STUDY:

SEER Monitoring at Maw Green

Our SEER monitoring range of telemetry products aim to ensure your pumping equipment is running in optimal condition, the products range from alarm units to telemetry monitoring devices.

After installing the unit at Maw Green Road and upon analysing the recorded data received, we noticed a particular unusual trend with one of the pumps run times. The pump had run for approximately 1 hour without the water level dropping, in-fact, the level was constantly rising until the standby level was met and then the standby pump managed the empty the well.

Upon site inspection, it was found that the non-return valve was not closing properly due to debris from the construction site getting lodged and causing the water to flow back re-filling the well. Without SEER, we would never have known!

The SEER unit is an advanced monitoring system ensures 24/7 monitoring of the pumping station, reporting back any alarms and changes in the system via a cloud based network. The SEER portal displays and changes in the system and collates historical data.

The SEER unit is an advanced monitoring system ensures 24/7 monitoring of the pumping station, reporting back any alarms and changes in the system via a cloud based network. The SEER portal displays and changes in the system and collates historical data.

We manufacture all our standard control panels on site and put them through rigorous testing to ensure they meet the highest standards. The dedication and expertise of our engineers has enabled us to create a range of control panels that are reliable and economical.

+44 (0) 1630 647200 / ttpumps.com
XL/XXL PUMPING STATION
Efficient and economical way of installing a sewage/drainage pumping station.

READY SUMP
Precast concrete sump incorporating the requirements to meet adoptable standards.

V-FLOW
Submersible sewage pumps with a vortex-type impeller.

E-FLOW
Submersible sewage pumps with a single-channel impeller.

PTS
Heavy duty submersible chopper pumps, ideal for chopping of solid material.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

WEDGE GATE VALVE
Used for pipeline application. Suitable for potable water duties and buried service.

SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.

BALL BRAKE
To prevent reverse flow, suitable for water and wastewater applications up to 60 °C.

AIR VALVE
Single large orifice air valve suitable for potable and filtered water applications.
SECTION 12:
BREWERY AND
FOOD PROCESSORS
T-T stock a range of pumps, valves and controls that are suitable for breweries. Typically all brewers, whether a small independent craft ale specialist, or a large brewer supplying beers to pubs and restaurants require specialist equipment to transfer the liquids throughout the brewing process.

**IR RANGE**
Ideal for recirculation and air conditioning systems, water supply and pressurisation groups. Various types of materials and mechanical seals are available.

**J RANGE**
This range pumps are self priming, once originally primed with liquid to a maximum suction height of 7.5m. Surface mounted for ease of installation as only the suction pipe needs to be immersed in the pumped liquid. The pumps are highly resistant to abrasion due to solids in the pumped liquid.

**L SERIES**
In-line circulation pumps for hot or cold water, suitable for installation in civil and industrial heating applications.

**NCBK**
Used for heating and cooling systems and water supply. Various types of materials and mechanical and soft shaft seals (standard) and wear rings are available, depending on the required application.

**BOOSTER SETS**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

**GREY RANGE**
The Grey series is a range of submersible pumps for drainage systems, designed with suitable hydraulics and motors to generate high performance and low consumption with outstanding versatility.
**MK RANGE**
Compact, multi-stage vertical pumps. These pumps are configured with a bearing designed to support the axial thrust of the pump and allow coupling to any other standardised motor. Dual wear ring and bushes to guarantee maximum reliability.

**M SERIES (Stainless Steel)**
The M Series is a cost-effective transfer pump for clean water. This cast-iron self-priming pump is extremely reliable for the boosting and transferring of clean water.

**ROBUST SUMP PUMP**
The Goliath is a robust sump pump made of stainless steel plate and fibre-reinforced plastic, resistant to corrosion. It also features a vortex impeller giving 38mm solids handling.
Pumps, valves and controls suitable for Food Processing factories need to comply with the stringent food hygiene requirements. T-T supply a range of stainless steel pumps, WRAS approved valves and stainless steel control panels that are built to be used in a clean and sterilised environments.

Our range of float switches provide an efficient and economical level control solution. The easy in install float switches are available in a range of option and cable lengths and are rated to 5 bar. FLO107 is WRAS approved.

We manufacture all our standard control panels on site and put them through rigorous testing to ensure they meet the highest standards.

The SEER unit is an advanced monitoring system ensures 24/7 monitoring of the pumping station, reporting back any alarms and changes in the system via a cloud based network. The SEER portal displays and changes in the system and collates historical data.
Acuflux liquid turbine flow meters offer high accuracy and repeatable measurement under the most demanding conditions.

WAFER CHECK VALVE
Double plate check valve used to prevent reverse flow, rated to 16 bar. Suitable for clean water applications up to 100°C WRAS approved.

PRESSURE REDUCING VALVE
An accurate and reliable directly-acting pressure reducing valve used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.

BUTTERFLY VALVE
Wafer pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.

KNIFE GATE VALVE
Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline.

STAINLESS STEEL ORIFICE AIR VALVE
Aquabrake double orifice air valve is used to prevent pressure build-up, vacuum in the pipe system and to control bleed of gas to maintain stability.

Acuflux liquid turbine flow meters offer high accuracy and repeatable measurement under the most demanding conditions.
**RELATED PRODUCTS**

**PACKAGE PUMPING STATION**
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

**NCB**
Centrifugal pump meeting EN-733 used for cooling and heating systems and water supply.

**CDLF**
Electrically driven stainless steel vertical multi-stage pumps designed to transfer clear liquids.

**VSD**
VASCO is a range of variable speed drives, designed to control/protect pumping systems.

**BALL BRAKE**
To prevent reverse flow, suitable for water and wastewater applications up to 60 °C.

**KIOSKS**
Ensures that control equipment is safe and protected from the elements and harsh conditions.
SECTION 13: MOTORWAYS AND ROAD INFRASTRUCTURE
Surface water can be a potential hazard and can affect our transport systems. T-T have vast experience in providing complete pre-cast concrete drainage systems to many highways ensuring that the world can keep moving without nuisance water getting in the way.

**ADOPTABLE PUMPING STATION**
An adoptable pumping station is designed and manufactured to Sewers for Adoption standards ready for adoption by the local water authority. T-T handle all elements of the project from concept to completion.

**UNIQA**
Used for heavy duty applications, usually in industrial sewage and wastewater applications. They transfer solids which are usually contained in the wastewater in order to clean the water. ATEX versions available.

**GREY RANGE**
The Grey series is a range of submersible pumps for drainage systems, designed with suitable hydraulics and motors to generate high performance and low consumption with outstanding versatility. ATEX versions available.
KTS
Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.

KTA
A submersible slurry pump with a 4-pole motor for an increased lifetime and easy maintenance. High chrome impeller combined with agitator for pumping heavy slurry, with its slim design and top discharge enabling installation in tight spaces.

Trencher™
SUBMERSIBLE DRAINAGE PUMP
The Trencher range of submersible 2” drainage pumps are compact, light and powerful and are suitable for ground water and water containing sand and silt.

J RANGE
This range of pumps are self priming, once originally primed with liquid to a maximum suction height of 7.5m. Surface mounted for ease of installation as only the suction pipe needs to be immersed in the pumped liquid. The pumps are highly resistant to abrasion due to solids in the pumped liquid.
Commuters using a major road into Birmingham City Centre can take comfort that the route, previously prone to flooding, will be less likely to be affected in periods of heavy rain, thanks to new technology installed by T-T.

The Birchfield underpass, which carries the A34 under Perry Barr, was the site of a major flooding incident in 2014 that saw motorists stuck in rush hour traffic jams following a pump power failure.

Birmingham City Council’s Highways partner, Amey, commissioned T-T to carry out full site survey. Following inspection of the existing pumps and panel, T-T offered Amey the solution of replacing the existing surface mounted pumps with submersible contractor’s pumps, a new control panel and associated equipment to enable remote monitoring of the problematic site.

Amey proceeded with installation of the new, more efficient and robust system, and a selection of Amey engineers completed training with T-T, to familiarise themselves with the pumps and monitoring equipment they now have on the underpass.

In May 2018, the new system was put to the test as the city once again bore the brunt of torrential downpours. Despite the high volume of rainfall in a short period of time, no problems were experienced at the Birchfield Underpass. T-T continue to work closely with Amey on maintenance of this and other pumping stations around the city’s highways network.
The Libra range offers extensive choice of single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

Metal seat swing check valve with an optional lever weight used to prevent reverse flow, it is suitable for potable water, wastewater and sewage applications.

This range of resilient seat wedge gate valves are used for pipeline isolation and are suitable for potable water duties and buried service.
PACKAGE PUMPING STATION
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

RELATED PRODUCTS

**KIOSKS**
Ensures that control equipment is safe and protected from the elements and harsh conditions.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**FLOAT SWITCHES**
Used as level control, or high and low level warning indication.

**ENGINE DRIVEN PUMPS**
Our engine driven pumps are suitable for heavy duty applications.

**BALL BRAKE**
To prevent reverse flow, suitable for water and wastewater applications up to 60 °C.

**AIR VALVE**
Single large orifice air valve suitable for potable and filtered water applications.

**PENSTOCK**
A robust range of bi-directional penstocks for fluid control and isolation.

**LIBERATOR VORTEX**
The vortex impeller on this pump makes it ideal for de-watering where sand is present.

**SUBMERSIBLE PUMP**
A versatile, portable, submersible, residue pump for clean water.

**SUBMERSIBLE PUMP**
A range of 2” submersible drainage pumps for groundwater containing sand.

**VSD**
VASCO is a purpose built range of variable speed drives, to control/protect pumping systems.

**SUBMERSIBLE PUMP**
This plug and play product is suitable for emergency de-watering.

**Puddlepal**
A range of submersible drainage pumps for sand.
SECTION 14:
UNDERGROUND
AND RAIL
Working with Rail and Underground Transport Sector for over 25 years, T-T have vast experience in supplying pumps, pumping stations, valves and controls that ensure complete reliability, something that is paramount in this sector. We specialise in the provision of pumping schemes, with our bespoke control systems being TFL compliant (Transport For London) with standards T003, T004 and T008. In addition, we are fully conversant with TFL S2056 Civil-Engineering-Pump Drainage Systems specification.

We are also the nominated framework supplier to TFL/London Underground Ltd (LUL) for control systems, pumps, valves, off-site service and repair, and all associated equipment.

**CONTROL PANEL**

We manufacture all our standard control panels on-site and put them through rigorous testing to ensure they meet the highest standards. Our panels come ready for installation and you can also buy kiosks to house them indoors or outdoors.

**KTS**

Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.

**GREY RANGE**

The Grey range has been developed using cutting-edge technology, featuring an anti-clogging system, a large oil chamber with a leakage detection sensor, two mechanical seals and a cable gland to protect the power cable.
“We have thoroughly enjoyed working with Crossrail and TFL to provide a range of new panels for the Elizabeth Line. The T-T Controls team pride themselves on meeting deadlines and providing the high-quality products that are required for TFL. We have a dedicated team working on the project to ensure all control systems meet the Crossrail and TFL’s high standards and specifications. Our test team work closely with Crossrail and TFL, making sure all panels work tirelessly controlling the systems in the Underground.”

Jane Delicata, T-T Controls Manager

CASE STUDY:

T-T Controls speed to success with their TFL specification control panel systems

T-T Controls have been a part of making the Crossrail Elizabeth Line operational by supplying a range of TFL (Transport for London) and Crossrail specification control panel systems.

The line will cross 41 stations including Farringdon, Canary Wharf and Tottenham Court Road. T-T Controls have provided four new standard control panels to Bank station in preparation for the enhancements of the station in preparation for Crossrail, the panels have been wired to suit the customised requirements of TFL. This work is part of the upgrade works that are taking place to make sure these stations are suitable for the new line. The panels supplied will operate the drainage pumps and provide level control, operational monitoring and status indication to the remote data centre.

At Tottenham Court Road station, T-T Pumps have completed an install of complete packages of both TFL specification control panels and pump sets, as part of the work that is being complete to construct new entrances to ensure this station is suitable for the additional Elizabeth line which will stop at this station. All the standard control panels have been manufactured on-site at our Crewe headquarters.

It will take a number of weeks for T-T Controls to install and test seven new control panels which will be installed at Farringdon station, again to cater for the new line. Following this, an additional four panels will be installed in time for the new Elizabeth line to be operational.

Crossrail is intended for the general public to use imminently T-T Pumps are working to meet tight deadlines to ensure Crossrail stays on time and budget.
Tottenham Court Station has undertaken a major £500m transformation to accommodate the expected rise in the number of passengers that pass through the station each day when the new Elizabeth Line, bringing improved accessibility, access to new line platforms to reduce congestion and additional escalators.

This multi-million pound upgrade has been awarded one of the most prestigious prizes at the British Construction Industry Awards 2017 as major civil engineering project of the year.

As commissioned by TFL, the project included the addition of a new public space and tunnels and shafts reaching 29m underground. Due to the vast scale of the project and the required specification, a bespoke pumping scheme was to be designed that could aid the comprehensive requirements.

T-T was selected to supply and install control systems, pumps and valves, to the commission work required. A range of pumps were selected from our range, including the DGN, MAN, APN, Grey and UNIQA pumps, chosen due to their robust design and efficient features. Both the valves and the pipework were selected and approved as specified. Control panels were designed to the requirements of the project and to TFL specifications. Factory acceptance testing took place to ensure all products were suitable for this application which is vital to be in optimal working condition on a day-to-day basis. TFL need products that can rely on to work tirelessly without failure, and T-T pride themselves on being able to offer these solutions.

CASE STUDY:

Tottenham Court Road Station Upgrade

“\textit{It’s always exciting working with TFL, it’s always reassuring to know that T-T can provide products to pass their stringent competences and when we design something new for TFL it always feels like an accomplishment at the end. Working on Tottenham Court Road gave us scope to show our vast capabilities.}”

John Plant, Technical Support Manager at T-T

\textbf{UNIQA}

\textit{Used for heavy duty applications, usually in industrial sewage and wastewater treatment plants. They transfer solids which are usually contained in the wastewater in order to clean the water.}
**Trencher™**

**SUBMERSIBLE DRAINAGE PUMP**
The Trencher range of submersible 2” drainage pumps are compact, light and powerful and are suitable for ground water and water containing sand and silt.

**KTA**
A submersible slurry pump with a 4-pole motor for an increased lifetime and easy maintenance. High chrome impeller combined with agitator for pumping heavy slurry, with it’s slim design and top discharge enabling installation in tight spaces.

**KTH**
A submersible drainage pump made of cast iron for long-lasting durability. This range has a high maximum submersion depth due to a double mechanical seal. Suitable for civil engineering and construction works.

**SUBMERSIBLE PUMP**
A versatile, portable, submersible, residue pump for clean water. This pump features the ability to pump down to 1mm, therefore ideal for removing water from flat surfaces such as floors on site and flat-roofs.

**Liberator™**

**SUBMERSIBLE CONTRACTOR PUMP**
Range of 2” submersible drainage pumps that are compact, light and powerful and are suitable for ground water and water containing sand and silt.

**Puddlepal™**

**SUBMERSIBLE PUMP**
A versatile, portable, submersible, residue pump for clean water. This pump features the ability to pump down to 1mm, therefore ideal for removing water from flat surfaces such as floors on site and flat-roofs.

**SEAT WEDGE GATE VALVE**
F4 resilient seat wedge gate valve used for pipeline application. Suitable for potable water duties and buried service.
RELATED PRODUCTS

**PACKAGE PUMPING STATION**
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

**PLUTO**
Used for removing excess water collected from cavity drainage systems.

**PLASTIC COMBINATION AIR VALVE**
Management of air in potable, irrigation and treated water.

**KNIFE GATE VALVE**
Bi-directional, full-bore knife gate valve, having a non-rising spindle and serviceable inline.

**KIOSKS**
Ensures that control equipment is safe and protected from the elements and harsh conditions.

**FLOAT SWITCHES**
Used as level control, or high and low level warning indication.

**PLASTIC COMBINATION AIR VALVE**
Management of air in potable, irrigation and treated water.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**VSD**
VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.

**FLOAT SWITCHES**
Used as level control, or high and low level warning indication.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**BALL BRAKE**
To prevent reverse flow, suitable for water and wastewater applications up to 60 °C.

**SWING CHECK VALVE**
Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.
SECTION 15: URBAN BUILDINGS
Due to the ever decreasing space there is available, it isn’t uncommon that high rise buildings are being constructed in many locations. T-T manufacture and supply a range of equipment to ensure your water and waste management is handled, these ranges include above and below ground pumping stations, potable water boosting systems and air release valves.

**ABOVE-GROUND PUMPING STATION**
These fully assembled lifting stations are manufactured in single/dual grinder pump options and come with vortex, channel or grinder pumps. A compact complete unit supplied with pumps, valves and control panel, which is easily installed and maintained.

**BOOSTER SETS WITH CONTROL PANEL**
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

**Looppak**
Loopak is a macerator pump made up of a twin section box. It is designed to automatically grind and discharge: sewage, toilet paper, greasy water, acid and water (up to 100°C), originating from either a bathroom or a kitchen.
XL and XXL Package Pumping Stations

The XL and XXL range provide an efficient and economical way of installing a sewage/drainage pumping station, plus provide large retention volumes integral to a single chamber design.

L SERIES

In-line circulation pumps for hot or cold water, suitable for installation in civil and industrial heating applications.

A double-orifice air valve with integral engineered surge anticipation and alleviation mechanism. Designed to overcome potentially damaging effects of hydraulic surges associated with water boosting systems in high-rise buildings, vacuum prevention on pump failure and column separation.
# RELATED PRODUCTS

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<th>Description</th>
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<td>Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.</td>
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<td><strong>PRESSURE VESSELS</strong></td>
<td>Designed to maintain a predefined liquid pressure.</td>
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<td><strong>CONTROL PANEL</strong></td>
<td>Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.</td>
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<tr>
<td><strong>SEER MONITORING</strong></td>
<td>24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.</td>
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<tr>
<td><strong>VSD</strong></td>
<td>VASCO is a purpose built range of variable speed drives, designed to control/protect pumping systems.</td>
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<td><strong>FLOAT SWITCHES</strong></td>
<td>Used as level control, or high and low level warning indication.</td>
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<td><strong>GATE VALVE</strong></td>
<td>Used for pipeline application. Suitable for potable water duties and buried service.</td>
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<td><strong>AIR VALVE</strong></td>
<td>Single large orifice air valve suitable for potable and filtered water applications.</td>
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<td><strong>SWING CHECK VALVE</strong></td>
<td>Used to prevent reverse flow, it is suitable for potable water, wastewater and sewage.</td>
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<td><strong>PRESSURE REDUCING VALVE</strong></td>
<td>Used to maintain a preset downstream pressure regardless of upstream pressure fluctuations.</td>
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SECTION 16: BOREHOLE
A borehole is a slim vertical hole which runs deep into the ground until there is a water supply. Borehole pumps are placed into this excavation to extract the water for a number of applications including irrigation, water supply and wells. T-T offer a range of borehole pumps that can be supported by their suitable valves and control equipment providing a complete package.

### 4HS
A range of 4” electric multistage submersible borehole pumps specifically designed to operate at high electrical frequencies, resulting in expansive duty coverage from each model. Larger models available from 6”, 8”, 10” and 12”

### FS RANGE
The FS series uses axial sliding floating impellers which avoid the interruption of the pump operation due to particulate and sand. This range draws from wells of minimum diameter of 104mm tanks or natural basins.

### BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.
A range of variable speed drives, designed to control and protect pumping systems based on changing the motor frequency and pump speed.

RESILIENT SEAT WEDGE GATE VALVE
This range of resilient seat wedge gate valves are used for pipeline isolation and are suitable for potable water duties and buried service.

SINGLE ORIFICE AIR VALVE
Aquabrace single orifice air valve is used to prevent pressure build-up, vacuum in the pipe system and to control bleed of gas to maintain stability.

CONTROL PANEL AND KIOSK
T-T Controls can manufacture and supply a range of motor control panels to suit your application. Your control panel can be housed in our range of kiosks and enclosures.
CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

PRESSURE REDUCING VALVE
To maintain preset downstream pressure regardless of upstream pressure fluctuations.

S181 RANGE
8” submersible pump, ideal for water distribution from a minimum diameter of 210 mm.

NR RANGE
6” submersible pump, ideal for boreholes with a minimum diameter of 156 mm.

S151 RANGE
High-resistance 6” submersible pump, ideal for boreholes with a minimum diameter of 158 mm.

RC900
Multistage pump ideal for the transfer and pressurisation of clean water.

RELATED PRODUCTS

Libra
CONNECTION

Seer
MONITORING

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

BALL BRAKE
To prevent reverse flow, suitable for water and wastewater applications up to 60 °C.
SECTION 17:
SINGLE DWELLINGS AND BASEMENTS
T-T offer a range of products for clean water supply and alternatively the disposal drainage and effluents. Our range of clean water boosting sets to maintain water supply and pressure to give reliability on demand. Our extensive range of package pumping stations and compact lifting stations automatically allow safe disposal of waste liquids and drainage water from the house or basement. T-T also provide a full after sales service including 24/7 monitoring.

**PACKAGE PUMPING STATIONS**

Designed and manufactured by T-T and approved by the BBA, the Planet range provides an efficient and economical way of installing a sewage/drainage pumping station.

**ABOVE-GROUND PUMPING STATION**

These fully assembled lifting stations are manufactured in single/dual pump options and come with vortex, channel or grinder pumps. A compact complete unit supplied with pumps, valves and control panel, which is easily installed and maintained.

**Loopak**

Loopak is a macerator pump made up of a twin section box. It is designed to automatically grind and discharge: sewage, toilet paper, greasy water, acid and water (up to 100°C), originating from either a bathroom or a kitchen.

**ROBUST SUMP PUMP**

The Goliath is a robust sump pump made of stainless steel plate and fibre-reinforced plastic, resistant to corrosion. It also features a vortex impeller giving 30mm solids handling.

**PLUTO**

This package pumping station is the most effective means for collecting and removing excess water collected from cavity drainage systems. The fully automatic unit is designed and built for reliability and long life and employs a high performance pump range.

A high quality polyethylene tank intended for collecting water exclusively from domestic drains. Neatly constructed and with a small footprint, the Utility Box is very versatile and easy to install product.
RAINCYCLE®
The RainCycle has been specifically designed to utilise rainwater which would normally go to waste.

CONTROL PANEL AND KIOSK
T-T Controls can manufacture and supply a range of motor control panels to suit your application. Your control panel can be housed in our range of kiosks and enclosures.
SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

VSD
A purpose built range of variable speed drives, designed to control/protect pumping systems.

ANTI-FLOOD VALVE
Stops waste liquids back flowing from the sewage network into your property.

BRASS SWING CHECK VALVE
Used to prevent reverse flow, it is suitable for many domestic applications up to 100°C.

CELLARBOX
The Cellarbox is a polyethylene container, which is pre-assembled ready for connection.

BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets.

BOOSTER SET
Clean water booster set comprising of self-priming stainless steel pump and tank.

T-T WELL
T-T Well is a cost-effective well pump for the transfer of clear water.

CONTROL PANEL
Single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

SEER MONITORING
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

FLOAT SWITCHES
Used as level control, or high and low level warning indication.

CELLARBOX
The Cellarbox is a polyethylene container, which is pre-assembled ready for connection.

BOOSTER SETS
A comprehensive range of fixed and variable speed multiple clean water booster sets.

VSD
A purpose built range of variable speed drives, designed to control/protect pumping systems.

ANTI-FLOOD VALVE
Stops waste liquids back flowing from the sewage network into your property.
SECTION 18:
CONSTRUCTION AND HIRE INDUSTRY
SUBMERSIBLE CONTRACTOR PUMP

Range of 2” submersible drainage pumps that are compact, light and powerful and are suitable for ground water and water containing sand and silt.

KTS/KTA
Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.
We understand the benefits of maintaining a dry working condition improves access and productivity on construction sites. T-T manufacture and supply a complete range of products to keep your site workable at all times.

**SUBMERSIBLE DRAINAGE PUMP**
The Trencher range of submersible 2” drainage pumps are compact, light and powerful and are suitable for ground water and water containing sand and silt.

**EP RANGE**
Great for fuel oil transfer for rapid refuelling on site. The pump also features a bi-directional motor for reversible operation and volume control.

**POLYCARBONATE CONTROL PANEL**
Polycarbonate panel with a glazed door. We manufacture all our standard control panels on site. T-T Controls are specialists in designing, manufacturing and installing custom made control systems for single or multi motor applications for both standard and ATEX zoned.

**SCR RANGE**
The SCR range is a powerful and light in construction featuring aluminium for the outer casing and cast iron for the impeller and wear plate. The pumps are suitable for de-watering, washdown, irrigation and many more applications.

**BALL VALVE**
Sinking ball check valve used to prevent reverse flow. Suitable for water and wastewater applications up to 60°C.
RELATED PRODUCTS

**PACKAGE PUMPING STATION**
Provides an efficient way of installing a sewage/drainage pumping station. BBA certified.

**PLUTO**
Used for collecting and removing excess water collected from cavity drainage systems.

**TROJAN**
Single/dual Grinder pump options and comes with vortex, channel or grinder pumps.

**KIOSKS**
Ensures that control equipment is safe and protected from the elements and harsh conditions.

**FLOAT SWITCHES**
Used as level control, or high and low level warning indication.

**VSD**
VASCO is a range of variable speed drives, designed to control/protect pumping systems.

**SEER MONITORING**
24/7 monitoring of the pumping equipment, reporting back any alarms and changes in the system.

**ANTI-FLOOD VALVE**
Stops waste liquids back flowing from the sewage network into your property.
Our hire range also includes a range of engine driven pumps, standard centrifugal pumps, semi-trash pumps, trash pumps and diaphragm pumps. These pumps combine high performance with an impressively lightweight design. They are easy to transport and thus ideal for emergency situations, or in areas that cannot accommodate a full-size pumping station.

**Trencher™**

**SUBMERSIBLE DRAINAGE PUMP**
The Trencher range of submersible 2” drainage pumps are compact, light and powerful and are suitable for ground water and water containing sand and silt.

**Liberator™**

**SUBMERSIBLE CONTRACTOR PUMP**
Range of 2” submersible drainage pumps that are compact, light and powerful and are suitable for ground water and water containing sand and silt.

**Liberator™**

**SUBMERSIBLE SOLID HANDLING CONTRACTOR PUMP**
An extension to our popular Liberator range and provides high resistance to liquids containing sand and gravel. It has a light compact design making it ideal for emergency de-watering.
T-T have demonstrated sheer commitment to the development of products for the hire industry. We have produced some of the most economical, innovative and durable contractor pumps in the marketplace.

**Puddlepal™**

**SUBMERSIBLE PUMP**

A versatile, portable, submersible, residue pump for clean water. This pump features the ability to pump down to 1mm, therefore ideal for removing water from flat surfaces such as floors on site and flat-roofs.

**Puddlepal™ Junior**

**FLAT SUCTION PUMP**

Puddlepal Junior is a portable pump for emergency drainage, cellars, washhouses, pools, manholes and application where water must be pumped out ‘completely’.

**PALPACK**

The Palpack combines the PuddlePal, PumpPal and LevelPal to provide a de-watering pump pack that offers peace of mind operation. The three products comprise of a submersible de-watering pump, control unit and level detector designed for de-watering of flat-surface applications such as basements and flat-roofs.

**Floodbuddy**

**SUBMERSIBLE EMERGENCY DEWATERING SET**

Used for emergency de-watering and is a plug and play product that can be used anywhere that flooding may occur. It contains a stainless steel pump with built-in level switch, integrated check valve and mounting bracket among other beneficial components.

**PUDDLEMATE**

A mobile diaphragm pump with 1” suction and discharge hoses of 3.5 metres. It is a portable plug and play product and is resistant to abrasive waste such as small stones, sludge and leaves.

**CONVERSION KITS**

T-T’s conversions kits are a unique inter-changeable design, which allows the Liberator to be converted to a PuddlePal and vice-versa.
**SCR RANGE**
The SCR range is a powerful and light in construction featuring aluminium for the outer casing and cast iron for the impeller and wear plate. The pumps are suitable for de-watering, washdown, irrigation and many more applications.

**SST RANGE**
A range of engine driven self-priming pumps which are light in construction featuring aluminium for the outer casing and cast iron for the impeller and wear plate. The pumps are suitable for de-watering, washdown, irrigation and many more applications.

**SWT RANGE - TRASH**
SWT is a range of powerful engine driven self-priming pumps which are light in construction featuring aluminium for the outer casing and cast iron for the impeller and wear plate. The pumps are suitable for de-watering, washdown, irrigation and many more applications.
DIAPHRAGM PUMPS
Heavy duty engine driven diaphragm pump range for construction work, pumping water containing sand, stone and muddy water and many more applications.

EP BRONZE RANGE
Self-priming transfer pumps featuring a bronze pump body and impeller for transfer of water and liquids with bronze compatibility with a bi-directional motor, suitable for water transfer, fuel oil transfer and many more applications.

FOR MORE INFORMATION ON OUR HIRE RANGE CALL:
+44 (0) 1630 647200
Or visit us online and save 5% on your order at ttpumps.com
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8am – 5pm Friday

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