

# MTS

contracting ltd.



## Services Brochure 2025

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MTS Contracting Ltd is a team of highly skilled technicians with over 45 years of combined experience in special operations and engineering. Our extensive expertise allows us to offer expert guidance and services across all areas of pipeline specialist operations.

We focus on delivering tailored advice to implement the most effective techniques for a variety of special operations scenarios, ensuring optimal solutions for each unique challenge.

MTS Contracting Ltd is proud to collaborate with Radius Subterra and Flow Stop Services, forming strategic partnerships that enable us to offer a comprehensive range of services to the oil and utility industries.

### Services We Offer

- Hydrostatic Pressure Testing
- Pneumatic Pressure Testing
- APT Pressure Testing
- Pipe Installations (PE) and (Steel)
- Under Pressure Drillings
- Stopple's
- Bag offs
- Squeeze off up to 315 7bar Gas
- PRS Supply, Installation, Commissioning
- Maintenance of Gas Control Equipment
- Pipeline Repair and Maintenance
- Emergency Response
- Specialist Connections
- Gas connections



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Hot Tapping is a synonymous term describing the cutting of a hole in an existing pressure main.

A Tapping tee and valve are used to facilitate the cutting of the hole in the main while under pressure, providing a permanent branch connection. This can be performed on all types of pipe and under many flow and pressure conditions without interruption to the system

At MTS Contracting we can supply a full hot tap service on a range of sizes and pressures.

We can supply and fit the tees whether they are bolted, grouted or welded and supply the valves.

Here are some examples of the types of pipes, products and applications Hot Tapping can be used on.

### Pipe Materials

- Cast Iron
- Ductile Iron
- P.V.C. and H.D.P.E.
- Asbestos Cement
- Pre-Stressed Concrete Cylinder
- Non-Cylinder Concrete
- Stainless Steel
- Steel and Copper

### Products

- Water
- Glycol
- Sewer
- Chilled Water
- Re-Use Water
- Steam
- Gasoline / Jet Fuel
- Natural Gas

### Tapping Applications

- New Construction tie-ins
- By-Pass piping installation
- Pipe Inspection
- New pipeline construction
- Sample points for quality control
- Flow Meter installation
- Thermowell insertion
- Custom Engineering

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### Hydrostatic testing

MTS Contracting can carry out hydrostatic testing on a wide range of pipeline assets and equipment for the water and gas industry's including:

- Water bath heaters
- Pipeline testing (IGEM/TD/3/ Edition 5 and MSL )
- Testing pressure vessels
- Equipment revalidation



### Pneumatic testing

MTS Contracting can carry out pneumatic testing on a wide range of pipeline assets and equipment for the gas industry including:

- LP mains
- MP mains
- IP mains
- Testing pressure vessels
- Equipment revalidation

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It is difficult to accurately measure leakage on large pipe volumes during pre-commissioning pressure testing. For polyethylene pipe, a period must elapse to avoid creep (pipe expansion due to pressure) affecting the measured pressure. Small fluctuations in temperature can also mask pressure changes resulting from leakage.

The pressure test software has built in creep compensation algorithms, based on sound knowledge of polyethylene behaviour.

The advanced pressure test system owned and operated by MTS Contracting Ltd measures the temperature change of all the air in the pipe using acoustics.

A loudspeaker and microphone are placed inside the pipe and a pulse echo technique is used to measure the sound speed. The speed of sound varies with temperature, which is used very effectively to determine average temperature changes down to 0.001c.

This data is then used to compensate for pressure readings.



### Benefits:

- Fast accurate testing.
- User friendly laptop-based operation.
- Simple hardware installation.
- Automatic test certificate generation.
- Up to 75% saving on test time.
- Earlier leak discrimination.
- Digital auditable records.
- No waiting for conditioning time.
- Can be used on all UK gas networks and is in MSL/1 and TD3.

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MTS Contracting is the specialist pipeline services company and offers a wide range of services for the installation and testing of polyethylene pipe, including PE80 (MDPE) and PE100 (HDPE).

MTS Contracting's skilled technicians have vast experience of working in the gas industry. As a highly experienced installer of polyethylene pipe, specialities available include Butt Fusion and Electrofusion installation welding, catering for large diameter pipes up to 630mm.

### Pipe laying:

- **Butt Fusion Welding** - Up to 630mm
- **Electrofusion Welding** - Up to 630mm

### Branch Saddles

- Radius MiniMuss
- Frialen HFTT and Saddles



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### Butt Fusion Welding

MTS Contracting operate a wide range of Butt Fusion Machines (up to 500mm) including McElroy Tracstar (All Terrain) and Fusion Automatic BFMs. MTS-Contracting's expertise in handling the pipe and successful jointing using Butt Fusion methods provides complete peace of mind.

- ◆ Proven welding technique for polyethylene piping
- ◆ Long established method, spanning over 30 years of use
- ◆ Downloadable jointing data provides evidence that jointing has been correct and successful
- ◆ Cost-effective method of laying long stretches of pipe



### Electrofusion Welding

Also available is the installation of large diameter electrofusion couplers and branch saddles.

MTS-Contracting's technicians are highly skilled and have a proven track record of installing large diameter couplers up to 1000mm.

- ◆ Ideal for hard to access locations.
- ◆ Downloadable jointing data provides evidence that jointing has been correct and successful
- ◆ Cost-effective method of laying shorter and more complex sections of pipe

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### Metallic mains

#### Stopple

- High pressures up to 100bar
- Sizes up to 48" pipe
- Folding stopple can be used to reduce offtake size

#### Bag off

- 3" to 12" for low pressures
- 14" to 24" for pressures up to 500mbar
- 14" to 36" for pressures up to 75mbar
- 36" to 48"

#### Iris stop

- 4" to 48" for pressures up to 350mbar
- Not widely used anymore



### PE mains

#### Squeeze off

- Sizes from 16mm to 500mm
- Pressures up to 7bar

#### Bag off

- Sizes from 350mm to 630mm
- Pressures up to 500mbar

#### Water Bag off

- Single leg 3" and 4" up to 6bar

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### District Heating

MTS can carry out the installation and testing on a range of Pre-Insulated pipe used for district heating and boosted cold water systems. This can be from basic single flow and return to complex systems connecting multiple buildings to a single plant room.



### Heat Exchangers and Air Sourced Heat Pumps

With the use of the Pre-Insulated pipe systems used in district heating we use this to connect gas heat exchangers to their boiler houses to reduce water temperature loss over the distance which in turn helps with efficacy.

This coupled with our main laying services we can also install the fuel gas inlet to feed the boiler house meaning one team onsite carrying out both jobs speeding up the process.

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#### IP – MP – LP Distribution Networks or Private Networks

MTS-Contracting's range of services include; Supply, Installation, Commissioning and Maintenance of Pressure Reducing Stations

#### Services Include:

- ◆ Supply, Install, Commission and Maintain
- ◆ Inspection, Function, Diagnostic and Major overhaul
- ◆ Vent and Breather line installation
- ◆ Maintenance contract and call out

#### Pressure Regimes:

- ◆ Intermediate Pressure
- ◆ Medium Pressure
- ◆ Low Pressure



#### Installations:

- ◆ Above & Belowground
- ◆ Single Stream / Twin Stream / Multi Stream
- ◆ Active, Active/Slam and Monitor/Active systems
- ◆ Donkin, RMG, Honewell, Elster and Fiorentini

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### New installation

Using the 'Hi-Flow' System consists of a Drilling Saddle, Flanged Riser Tube and the LR67 Drilling Machine. The system allows under pressure installation of fire hydrants onto existing mains, avoiding shutdown and subsequent recharging. It is also an ideal method of installing Flushing Points adjacent to 'normally kept shut' boundary valves.

### The Benefits

- ◆ Under pressure installation with no shut down
- ◆ Excellent flow rate characteristics
- ◆ Robust pipe clamp gives a rigid base for mounting accessories
- ◆ Supports the pipe material in the area of the drilled hole
- ◆ Simple and quick to install
- ◆ Substantial cost savings
- ◆ Suits CI, DI, PVC and certain AC pipes up to DN300



### Application / Specification

- ◆ Designed for all potable water and wastewater applications up to a working pressure of 16 bar
- ◆ All materials and coatings are WRAS approved

### The Identified Use

Under pressure installation of a fire hydrant

- ◆ Under pressure installation of an 'OXO' type flushing point either side of a boundary valve. (In the case of both the above applications, it makes future changing of the hydrant achievable without the need to shut down)
- ◆ Taking samples from the top of the pipe wall (67mm coupon).
- ◆ Forming a by-pass for the installation of a PRV or water meter under pressure access into the main, for example leak detection (Hydra phone) insertion point CCTV insertion point, Probe insertion point, Flow meter, Chlorination point, Temperature monitor point, Chemical analysis point, Correlator point



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