

Valve Repair & Shutdown Services



MCE Group

– Improving reliability since 1990

MCE Group commenced trading in 1990 offering mechanical, electrical and instrumentation services to the power generation and process industries. Over the years, MCE has streamlined its activities, in order to concentrate its core business on the provision of valve repair and supply. MCE provides factory-authorized valve modifications and repairs to customers throughout the UK.

MCE is a distributor of ValvTechnologies' severe service products. ValvTechnologies is a leading global supplier of metal-seated severe service valves, has a proven performance record of providing field tested zero-leakage solutions.

Industries

MCE's customer base is diverse, because we are flexible to support the differing requirements of specific industries.

Whilst we hold term contracts with major power plant operators and process industry leaders, we are active in any industry which utilizes fluid flow.

Serving customers wherever there is process flow including:

- ✓ Power
- ✓ Fossil fuel
- ✓ Nuclear generation
- ✓ Petroleum
- ✓ Chemical
- ✓ Semi-conductor
- ✓ Water
- ✓ Aluminium
- ✓ Transport/mining
- ✓ Aerospace
- ✓ Pulp and paper
- ✓ Manufacturing plants
- ✓ Industrial processing



Nuclear generation



Petroleum



Power



Chemical



Pulp & paper



Mining



Industrial Processing



Our Services

Valve Management Services

Based in Stockton-on-Tees, in the North East of England, we aim to be the first choice for all valve repair and refurbishment needs both locally, and throughout the UK. Delivering this aim requires our people to focus on the customer, our health and safety environment, innovative problem solving and class leading quality and delivery.

Offering 24/7 emergency breakdown assistance, our specialist engineering division undertakes service and overhaul around control, relief, and isolation valves. This can include working in-situ at the "coal face" with a full or partial site support package, or off site at our comprehensive and spacious workshop, which offers 8,000 square feet of dedicated workshop facilities including dismantling and assembly areas, test bays, instrument calibration, machine shop, lapping, shot blasting, painting and drying facility, electrical workshop, training facilities, and a bespoke, in-house designed Valve Management Database (VMD).

With craneage enabling us to take valves up to 72" and 5 tonnes in weight, we have the capability to service most valves and actuators, using OEM parts. Through the recent expansion of our diagnostic services, we can now offer relief valve testing (V-Cal) supported by fully trained technicians.



Diagnostic Services – V-Cal In-line Testing

MCE technicians can carry out hot and cold safety relief valve testing (V-Cal) in situ. This reduces downtime to the plant and can be conducted more frequently, hence increasing confidence in the valve settings. The MCE equipment includes the use of a 100kN load cell capable of completely closing the relief valve under operating conditions.

Diagnostic Services – ValvPerformance Testing®

Leaking valves are costing power plants £M's in lost energy and maintenance downtime. Fugitive emissions are also a major factor in certain industries. ValvPerformance Testing® is a non-intrusive acoustic inspection process which ascertains leakage levels in valves whilst in operation. MCE technicians conduct the on site survey which can cover from 75 to 100 valves per day. The results are then analysed by specialists at ValvTechnologies' head office and a technical report issued outlining the impact of the leaking valves on plant unit efficiency in terms of fuel savings (costs and fugitive emissions). This allows customers to take restorative action. Payback of 0.01 years is not unusual.

Products

VALVTECHNOLOGIES

ValvTechnologies manufactures highly reliable metal seated valves for severe service applications. Founded in 1987 and headquartered in Houston, Texas, it is the leading manufacturer of zero leakage, high-performance isolation valve solutions for customers in energy, chemical processing, mining and minerals, pulp and paper, and other specialized industries.

ValvTechnologies, with broad experience in providing reliable custom engineered valves to meet the demands of almost any specific process condition, prides itself on exceeding industry standards by offering market-leading warranties to maintain customers' safe and reliable operations.



We are proud to be the longest serving approved Fisher repair centre in the UK. This relationship allows us access to all Fisher spare parts and replacement valves, instruments and associated equipment with many parts available same day (we only use OEM parts). Our valve technicians have been fully trained by Emerson Process Management on Fisher Control Valve functions and maintenance.



In addition to our valve and spare part stock, MCE can source any valve or OEM spare part through our network of sales partners. We also use a selection of approved, audited subcontract organizations if aftermarket parts are required.



Our Facility

Our 19,000ft² workshop gives us the capacity to support the largest of outages. With 24/7/365 operations and emergency call out.

The facility also includes:

- ✓ Machine shop
- ✓ Shot blast and paint booths
- ✓ Hydrostatic test bays
- ✓ Instrument calibration and test rooms
- ✓ Control valve and relief valve test bays
- ✓ Dedicated technician training rooms
- ✓ Bar coded valve tracking

MCE's upgraded factory using Service Best Practice (SBP) techniques ensures we continually improve our process flow, efficiency and customer service.

A major part of MCE's activity is conducting valve overhauls on customer sites, often during planned outages. Working alongside other contractors or the customer's own maintenance teams, this can be carried out in situ or within one of our mobile site modules.

For larger outages MCE can mobilise one of our 20 or 40ft self-contained workshops, with associated welfare facilities with minimal notice.

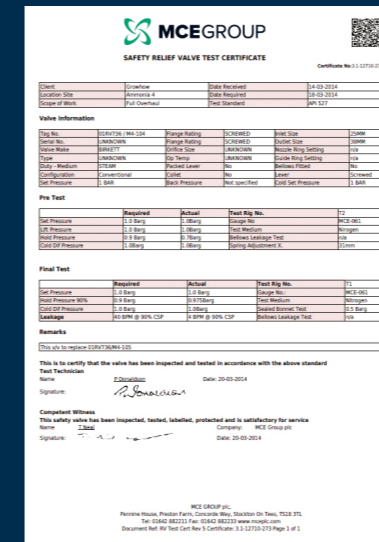
Alternatively our mobile workshop can drive to site and conduct service / testing of valves in groups, thus minimising downtime and transport time. These workshops are fully equipped with state of the art testing equipment and management software.

This mobility has been utilized throughout the UK, Ireland, mainland Europe and even Africa, meaning location is not an issue.



Valve Management Database™ (VMD)

All valves repaired and tested are uploaded onto our VMD™. This is a bespoke web based system which logs the maintenance and testing history of each valve. As valves progress through our workshop, their status is updated in real time. As a customer, you can gain access via a unique secure log-in, on request. This will allow access to only your valves.



As a customer of MCE you will receive a unique secure log-in which allows access to your valves.

The database can then be used to:

- ✓ Track the status of all valves in our workshop in real time
- ✓ Search maintenance history to assist with future planning
- ✓ Download and print current and historic test reports
- ✓ Conduct database searches by component, spare part, date, serial number etc.
- ✓ Support the maintenance record requirements of Pressure Systems Safety Regulations 2000
- ✓ Using a unique QR code on the test certificate, access the VMD™ via a smart phone or tablet

Accreditations

MCE has earned PED 2014/68/ EU accreditation for assembly, refurbishment and testing of high performance, zero leakage metal seated ball valves.

In addition, MCE holds the following certifications:

- ✓ UVDB Achilles Verify Category B2
- ✓ ISO 9001 : 2015
- ✓ ISO 14001 : 2015
- ✓ ISO 45001 : 2018
- ✓ ABB & ZURICH (for safety relief valve overhaul and testing)



Monitor, Consider, Execute.

Health and safety is THE most important aspect to conducting operations. No compromise. MCE Group regards the promotion of health, safety and welfare measures as an essential objective for management and employees at all levels.



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