



COMPANY PROFILE

FLOVAL Mechanical Equipment Maintenance & Control - FLOVAL LLC

A MEMBER OF
UNIVERSAL GROUP HOLDING LLC



Universal Group Holding LLC, with its commitment to quality in its quest for constant excellence in all its ventures, has earned a remarkable position in the UAE market. Universal Group operating over the past five decades with strategic intent, inherent ability to identify opportunities added with its adaptability to changing market environment, has entrenched itself as a leader in the region's progressive market. Our vision is to be the region's leading sustainable group by delivering winning solutions and outstanding services.

Group of Companies

- ❖ Universal Trading Company LLC - Abu Dhabi & Al Ain
- ❖ Universal Electrical Equipment Est. - Dubai
- ❖ Universal Service Centre
- ❖ Universal Establishment For Trading Agencies
- ❖ Universal Rent A Car Establishment (Europcar Abu Dhabi)
- ❖ Universal General Transport Establishment
- ❖ Universal Travel & Tourism
- ❖ Universal Auto Garage
- ❖ Universal Technical L.L.C
- ❖ Universal Voltas LLC
- ❖ Universal Used Car - F.Z.E.
- ❖ Floval Mechanical Eqt. Maintenance
& Control - Floval LLC



Head Office - Abu Dhabi

MBH Building, Sultan Bin Zayed
The First Street / Muroor Rd
Opp: Madinat Zayed Shopping Centre
next to Skyline Office Supplies, Abu Dhabi
Tel. : +971 2 6335331, Fax : +971 2 6211957
Email : info@ugc.ae, Website : www.ugc.ae



CEO MESSAGE

MESSAGE FROM CEO

Since its inception, Universal Group Holding LLC has recognized the importance of maintaining high standards of quality of its products and services, to ensure complete customer satisfaction.

These standards have been steadfastly maintained for over four decades and have enabled the Universal Group Holding LLC to command respect in a highly competitive market.

Regular contacts and cordial business relations with customers have enabled the Universal Group Holding LLC to strike a perfect association. This has always played a key role in cooperation with and support from all our customers. Apart from product quality, we understand the importance of providing a personal touch on the customer service front.

In order to retain and enhance the efficiency and quality of services, we always update our policies to keep pace with fast changing technologies in a pragmatic manner to achieve the desired results.

Mohamed Shabeeb Al Dhaheri

INTRODUCTION

FLOVAL is an ADNOC Approved & ISO certified independent technical service company that has formed with the wide experience gained being a part of Universal Technical LLC (UTL) over past 45 years. It will still continue as a service arm of UTL.

Company has expert knowledge and experience in providing Inspection & Testing of Valves, Valve Refurbishment, Maintenance & Repair, Valve Automation, Fabrication Services and Site Services. It is located in M-37, near ICAD in Mussafah, Abu Dhabi.

Our services include specialized services to various industries, including oil & gas, power generation, water & irrigation, sewage treatment plants, Petrochemical, Industrial, constructions, and technical service solutions for all the sectors.

MISSION :

Be an ideal model of Service Industry with quality services with accurate reports at industry's best practices.

VISION :

Our vision is to be reliable source for Asset Management Support for ADNOC, its subsidiaries, EPC contractors & their clients and providing online status report at any point of time in all possible dimension at their wish.

CERTIFICATION & ACCREDITATIONS

FLOVAL is certified for Integrated Management System; namely ISO 9001:2015, ISO 14001: 2015 & ISO 45001 : 2018.

Our strength are our factory trained qualified engineers and technicians, innovative equipment, capability to complete solutions, well known practices & certifications and dedicated management.



OUR SERVICES

FLOVAL boasts a dedicated team of skilled engineers and technicians who specialize in comprehensive valve maintenance, repair, refurbishment, system integration, installation, commissioning, and related services. Each team member is highly trained and certified, ensuring that every service is executed with exceptional care and expertise.

We offer complete valve actuation solutions, including commissioning and preventive maintenance support.

Our service includes, but not limited to, the following:

- ❖ Valve Repair & Refurbishment
- ❖ Valve Automation Services
- ❖ Valve Testing & Inspection
- ❖ System Integration Packages (MOVs, ESDs, etc.,)
- ❖ Machining and Welding Services
- ❖ Actuator Overhauling and Repair
- ❖ Passive Fire Protection Services for Valves & MOVs
- ❖ Valve Interlocking Services
- ❖ Installation & Commissioning
- ❖ On-site Services
- ❖ Annual Maintenance Contracts
- ❖ On-call Services



OUR SERVICES

VALVE REFURBISHMENT FACILITY



Valves are essential in industries like oil and gas, petrochemical, and power generation, regulating fluid and gas flow for safe and efficient operations. Over time, valves may degrade, impacting performance and reliability. This is where valve overhaul becomes vital.

Valve overhaul is crucial for maintaining industrial system reliability. By overhauling the valves with professional methods by experts, it can extend valve lifespan, prevent failures, and ensure efficient operations. Regular maintenance is key to long-term success in any facility.

VALVE REPAIR AND MAINTENANCE

With the key objective to ensure valves perform optimally and have extended lifespans across a range of applications, FLOVAL is well-equipped to provide exceptional valve maintenance services. We affluence state-of-the-art equipment and cutting-edge technology to deliver the highest quality valve services.



SYSTEM INTEGRATION



At FLOVAL, we specialize in providing comprehensive system integration services for Motor Operated Valves (MOVs) and Emergency Shut Down Valves (ESDVs). Our expertise lies in designing and implementing tailored solutions that enhance the automation and safety of industrial processes. By integrating MOVs and ESDVs into centralized control systems, we enable seamless monitoring and precise operation, ensuring optimal flow management and rapid emergency response.

Our commitment to quality and innovation ensures that our clients can rely on us for effective and safe valve management, empowering them to meet their operational goals with confidence. With a focus on delivering exceptional service and support, we help our clients navigate the complexities of system integration in today's dynamic industrial landscape.

ACTUATORS & GEAR BOXES

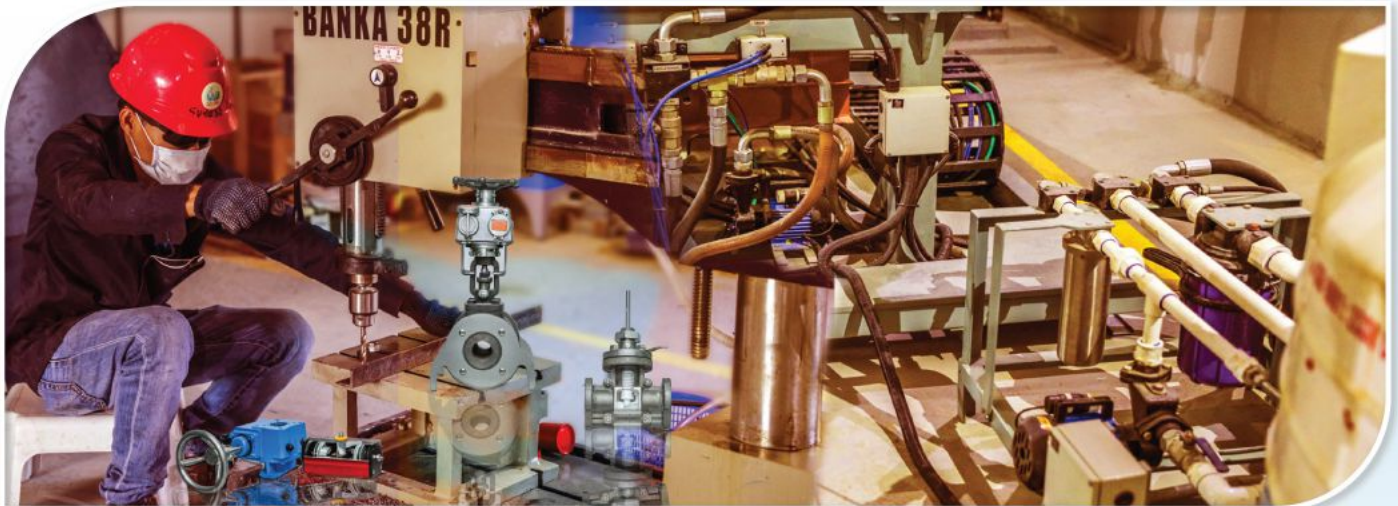
Repairing a costly valve actuator typically offers significant savings compared to replacing the entire unit. At FLOVAL, we prioritize fast turnaround times for repairs to minimize downtime. Our process includes thorough cleaning, inspection, and testing to pinpoint the root causes of any malfunctions. We replace defective components and identify unreliable parts, notifying clients if extensive repairs are necessary.

Our team conducts visual inspections to detect broken or burned components and performs dynamic testing to uncover all issues affecting performance, ensuring repairs are both complete and precise. From full removal and installation to bolting, torquing, weld repairs, heat treatment, lapping, and grinding of valve seats, you can trust our commitment to quality in valve control and actuator repairs. With our expertise, actuator and gearbox repairs at FLOVAL can be completed without disrupting production.



PARTS

At FLOVAL, we understand the importance of maintaining optimal performance for your valves and actuators. That is why we offer a wide selection of genuine spare parts for all brands identified during our servicing. Our knowledgeable team can quickly source and provide the necessary components, ensuring your equipment runs smoothly and efficiently. With our commitment to quality and reliability, you can trust that our spare parts will meet the highest standards, helping to extend the life of your valves and actuators.



VALVE REFURBISHMENT FACILITY



- ❖ Overhauling and Functional Testing of Valves
- ❖ Machining and Fabrication of Valve Parts
- ❖ Quality Assurance / Quality Control (QA/QC) Test as per ISO standards.
- ❖ Accessories & Spares management for Valve Automation
- ❖ Inspection, Documentation, Reinstallation & Commissioning

FABRICATION FACILITY

Our workshop is fully equipped with all required machineries such as Overhead Crane, Lathe Machine, Milling Machine, Drilling Machine, Welding Machine, Cutting Machines, etc., to serve any type of service and fabrication requirements.



ESDS & MOVS PACKAGES

- ❖ End user specification review
- ❖ Application Engineering
- ❖ Actuation Control System Design
- ❖ Project Management
- ❖ Document Control
- ❖ Valve/Actuator Inspection and Test
- ❖ Installation and Commissioning

SERVICE AND RETRO-FIT

Our Dedicated team is trained and qualified to serve our customer with custom engineered solutions and complete project management from contract award to assembly, test and inspection to installation and commissioning and finally to service and preventive maintenance support.

- ❖ Installation and commission of actuated valves
- ❖ Service of upgrading/modifying actuators
- ❖ The installation and commissioning of network / bus systems
- ❖ Survey and services related to fireproofing for valves
- ❖ Installation supervision for sewage treatment equipment for STPs
- ❖ survey, Installation and Commissioning of steam traps
- ❖ Installation supervision of surge Vessels including Surge analysis



HIPPS

HIPPS is an advanced type of safety instrumented system (SIS) which can prevent the plant from over pressurization thus it protects the other systems. HIPPS acts as a barrier between a high pressure and low pressure section of an installation by shutting off the source of the high pressure before exceeding the designed pressure limit. It is independent and operates on a higher Safety Integrity Level (SIL 3).



RENEWABLE ENERGY FOR REMOTE VALVE ACTUATION

FLOVAL capabilities supply a complete system of designing, assembling, and supplying independent power supply along with actuated valves for remote locations or any area where no proper power sources are available. It is a complete system with Solar panels, Battery packs, and converters with proper control units, and suitable for both safe areas and hazardous areas, especially for electro-hydraulic actuators or electric fail-safe applications.

VALVE INTERLOCKING SYSTEM & SOLUTION

FLOVAL is a authorized service partner for ALCATRAZ valves interlocking system. It also capable of sizing, designing the best sequence control, installing, servicing, training, and maintenance of valve interlocks.



PASSIVE FIRE PROTECTION

Our experienced engineers and technicians are fully equipped for passive fire protection solutions including site survey, design, and supply of required protection solutions and their installation. It includes Rigid Stainless Steel Panel Assembly boxes, Flexible mattress-type blankets, etc.



OUR FACILITIES

POSITIVE MATERIAL IDENTIFICATION (PMI)



PMI analyze the composition of all pure and alloy metals. We are equipped with S1 TITAN XRF explosion proof Analyzer which is advanced model that has capability of data accusation system through computer. This is necessary to verify the material of valve or actuator against what is stated in datasheet. This will enable us to select the correct material requirement for neighboring or mating equipment such as piping, flanges and gaskets which will be used on specific material requirement on special designs.

ULTRASONIC FLAW DETECTION TEST

Ultrasonic flaw detection is a powerful NDT technology. Our equipment can use in a range of 3.36 mm to 13,405 mm (0.132 in. to 527 in.) @ 5,900 m/s (0.2320 in./ μ) with velocity of 635 m/s to 15240 m/s (0.0250 in./ μ s to 0.6000 in./ μ s). This is explosion proof device with wide temperature range and a perfect solution for remote inspection areas and can be used for online inspection without interfering the process.



ULTRASONIC INSPECTION SYSTEM

The "Ultra probe 9000" is a digital ultrasonic inspection, information, storage and retrieval system that is versatile and easy to use. Ultra probe will help to move through inspections quickly (for Cavitations, Gears/Gearboxes, Lack of Lubricants), also used for online leak detection at Seals & Gaskets, Valves, Steam Traps, etc.

VALVE HYDROTEST

We are equipped with Hydro Test Bench suitable for valves from 1" to 24" in different pressure classes as per standards applicable to all types of valves including control valves. Our machine is specially equipped with digital data conversion with printed test results such as pressure vs time graph and bubble counter to measure accurate air leakage during the test.



FUGITIVE EMISSION TEST (FET)

FLOVAL has ADIXEN ASM340 Leak Detector, a helium leak detector that has a minimum helium sensitivity of $5 \cdot 10^{-13}$ Pa m³/s. With this equipment we can certify and perform FET to check the compliance of valve with international standards for acceptance. It enables our clients to ensure the safety on flammable and hazardous medium as well as quality of the valves using for special applications.



TORQUE MEASUREMENT

We have "Tool Valve Cyclic Testing System" that enable to measure the torque range from 300 Nm up 47,000Nm. The equipment used to check the torque required to turn the valves. With this equipment, you can counter check the value given the manufacturer of the valves for by better actuator selection.



INFRARED TEMPERATURE GUN.

FLOVAL is equipped with technically advanced Infrared Temperature Gun. It enables to measure the temperature in a range of -30°C to 900°C (-22°F to 1652°F) and distance to spot ratio of 60:1 with dual laser sighting for fast and accurate targeting. It is capable to show the present, MAX, MIN, DIF, AVG temperature information. The main advantage of this equipment for our client is to measure the temperature on specific area where IR beam is pointed from 3m distance without interfering the process or operation. It is applicable to measure the temperature of motor during operations and electrical terminals where ever required.



CORDEX INFRARED IMAGER

This Imager is used to take the thermal images for measuring the temperature of the targeted equipment, without disturbing its operation. Our intrinsically safe ATEX certified equipment has High speed, articulating lens which can Shoot high quality images over, under and around obstacles. It can create automated test reports which can be transferred to a computer.



PAINTING TEST

Our facility is equipped to measure the painting thickness to ensure the quality of the painting to comply with international standards suitable for onshore and offshore applications or any relevant painting specification. The Elcometer 456 provides accurate readings between 0-1500µm thickness in the Ferrous and Non-Ferrous metals which is capable to generate automated printed results through computer. This will ensure our client environmental protection for their equipment/s.





فلوفال لصيانة المعدات الميكانيكية والتحكم - فلوفال ذ م م
FLOVAL Mechanical Equipment Maintenance & Control - FLOVAL LLC

Tel. : +971-2-550 9 660
Fax : +971-2-550 8 660
M-37, Mussafa Industrial Area
PO Box 4399, Abu Dhabi - UAE



www.floval.ae - info@floval.ae