



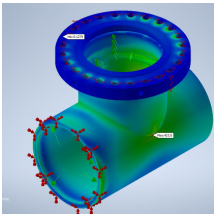
**Managing your asset integrity and risk
with reliable, efficient and safe
engineering solutions**

www.wellube.com

Wellube offers specialist engineering products and services for flow management intervention & integrity, turnkey valve reliability management and onsite precision machining to the global oil and gas, renewables, power, petrochemical and infrastructure industries.

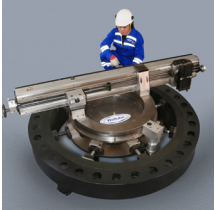
With over 20 years of experience in the industry, Wellube's technical knowledge, commitment to safety and hands-on approach is trusted by clients to provide them the best available solution for their dynamic operational challenges.

WHY CHOOSE WELLUBE AS YOUR ONE-STOP ASSET MAINTENANCE



Designing Capabilities

Our in-house design engineers are experts in custom designing fittings compliant to international codes and standards that best suit your asset maintenance and repair requirements.



Engineering Expertise

Experienced engineering team to analyse and design tailor made solutions for your challenges from end-to-end.



Customised Manufacturing

All products are manufactured to meet client specific requirements as well as to comply with international codes like ASME, API, ASTM and can be further validated by third party organisations like DNV, TUV among others.



Competent and Trained Workforce

With decades of knowledge, proficiency and continuous in-house training, our engineers and technicians are equipped to handle projects efficiently and deliver the highest standards of operational excellence.



Safety and Quality Always

All our products are delivered with stringent quality checks and our services follow complete compliance, thereby providing our customers the highest levels of quality assurance.

Wellube is accredited and certified to globally recognisable standards ISO 9001, 14001 and 45001.





TURNKEY VALVE RELIABILITY MANAGEMENT

Valve reliability plays a crucial role in maintaining the operational efficiency of a plant. Wellube has helped solve complex valve maintenance challenges for clients for over two decades.

With the experience gained in the field, Wellube provides complete turnkey solutions which can be performed both online and offline. Our service packages include on-line valve sealing for ball/gate passing, valve maintenance for overall integrity assessment and Uni-Test for safety and relief valve testing.

Be it planned or reactive maintenance for valve management, Wellube is well placed to provide the best solution for your requirements.

ON-LINE VALVE MAINTAINENCE

Most valve problems arising in production, transportation or processing are from inadequate lubrication and sealing, abrasive contaminants, or severe-duty service.



Maintaining the integrity of the valve assembly is crucial for continuous operation of assets. We understand the importance and hence have applied our knowledge and experience to develop a robust and proven method of flushing and lubricating valves on-line; without having to close the valve.

 **Industries** – Oil and gas, petrochemical, power, construction, infrastructure.

 **Valve types** – All Ball/Gate/Plug valves with grease ports.

 **Pressure range** – No limit.

 **Temperature range** – Upto 200°C.

 **Line medium** – Hydrocarbons, chemicals, water.

This maintenance service, delivered by our expert teams of qualified supervisors and technicians, includes:

- + On-line flushing of valves to remove old lubricant/sealant and hydrocarbon deposits.
- + Subsequent injection of specially formulated lubricants to enhance and protect expensive valves, providing many more years of extended, trouble-free service.

The integrity of the valves is compromised when foreign debris produce tiny scratches on the polished ball surface and wears on the ball and seat during the cycling of the valve. This reduces the valve's ability to provide an adequate seal and begin to cause minor leak paths.

During on-line valve sealing, when the valve is in the closed position sealant is injected into the ball/seat interface to enable an isolation. After injecting both the upstream and downstream seal sets, the effectiveness of the seal can be gauged by opening the vent points on the downstream side or by venting pressure through the valve body bleed vent.

Wellube offers both reactive as well as Planned Preventive Maintenance (PPM) packages, these include online flushing, lubrication and sealing solutions on valves.

Wellube's experience and technical knowledge alongside our on-line valve maintenance method is a complete solution to your valve reliability management and asset integrity needs.

UNI-TEST ON-LINE SAFETY AND RELIEF VALVE TESTING

Our Uni-Test system delivers safe and accurate Pressure Relief Valve (PRV) testing – with no operational disruption. The service ensures that every safety/pressure valve is operating at peak efficiency and meeting relevant safety obligations, which are key factors in maintaining plant productivity, safety, and profitability.

Wellube's Uni-Test has been developed based on over 20 years of experience in valve maintenance, and the system is certified and approved by TÜV and DNV. These tests are performed in-situ, on-line and under normal operating conditions.

The Uni-Test procedure is as follows:

- + Force is applied to the valve spindle to overcome the spring tension of the valve; this is done by using a hydraulic power pack in conjunction with an electronic force transducer linked to a digital recorder that controls and records the force applied.
- + The recorded data, together with the valve seat area and the line pressure enables the set pressure to be calculated.

Based on the results, Uni-Test identifies valves in need of adjustment or full service. The result is a certifiable process that allows correctly performing valves to remain in service for longer periods and identifies valves that do not meet the correct performance criteria so that they can be scheduled for maintenance at the next available opportunity.



The Uni-Test is more accurate than a cold test on a bench, as the tests are executed under normal operating condition of the valve. Moreover, as the valves are tested in-situ, costs associated with a shutdown, removal and the risk of damage during the transportation are all avoided.

Wellube understands the importance of valve reliability assessment for our clients, as it directly affects the safety and productivity of their facility. Hence, as part of our solution, our trained and experienced team provides a detailed analysis of the valves and advises on performance issues in addition to digitally managing the test data.

OUR GLOBAL PRESENCE



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