

Novaspect

Mechanical Services

Repair Services

At your site or in our facility, we can evaluate and repair the following equipment regardless of manufacturer:

- Control valves, regulators, and control instruments
- Gate, globe, ball, butterfly, plug, and check valves
- Electric, pneumatic, and hydraulic actuators
- Pressure relief valves
- Centrifugal, positive displacement, and progressive cavity pumps
- Process screens, sorters, and cleaners



Our rigorous training and real-world experience means you get experienced, knowledgeable certified technicians who are dedicated to serving your needs. We are standing by 24 hours a day, 365 days a year.

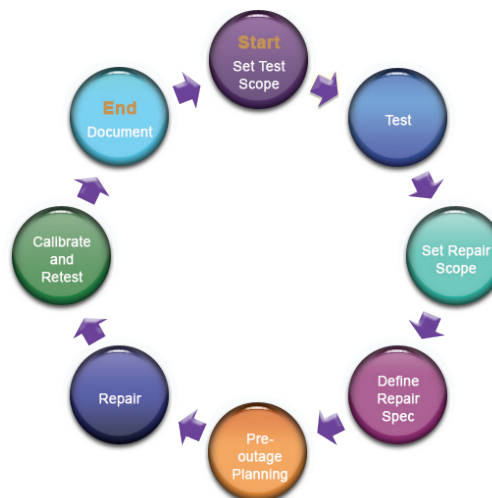
Novaspect has service centers located in Oak Forest, IL, Greenville, WI, Wausau, WI, and Eden Prairie, MN.

Turnaround / Outage Management

Outages generally offer a limited time to test, evaluate, repair, replace, and calibrate equipment that is critical to unit performance. Our trained and certified personnel will perform all necessary repairs whether the problem exists with valve, actuator, controller, or accessory. We use OEM parts from certified vendors and follow the highest industry standards for calibration and configuration.

The Novaspect Outage Management Process

- Set the test & evaluation scope
- Test & evaluate utilizing state of the art equipment & software
 - Emerson FlowScanner™ and AMS ValveLink™
 - AVK electronic pressure relief valve test device
 - Physical Acoustics 5131 digital leak detector
 - Rosemount 708 wireless acoustic sensor
 - CSI 9420 wireless vibration transmitter
 - TLV TrapMan® and thermographic imaging
- Set repair scope
- Define repair specification
- Pre-outage planning
- Repair
- Test and calibrate per customer specification
- Document and review



Mobile Repair Centers

Novaspect mobile service trailers provide a portable maintenance facility at your site.

- Diagnose, calibrate, remove, repair, test and replace valves, actuators and instruments onsite
- Equipped with lathes, mills, welders, workbenches, and parts to provide machining capabilities
- Inline welding and machining
- Self contained electrical and compressed air generation
- Onsite outage inventory programs

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Valve Services

Utilizing state-of-the-art diagnostic, measurement, weld repair, and machining equipment, Novaspect Mechanical Services provides comprehensive valve repair regardless of valve type, pressure class, or manufacturer.

- Fisher I&VS certified control valve diagnostic evaluation, repair, and calibration
- Experience including gate, globe, check, ball, butterfly, plug, knife gate, boot, diaphragm, shutter, and others
- Packing extraction and repack available without bonnet removal via pressurized water extraction
- Valve stem & packing bore weld repair via certified, automated processes
- Significant experience machining and manufacturing high pressure bonnet seals
- Pre-outage predictive diagnostic services including FlowScanning, valve signature, and leak detection testing



Actuator Services

Local repair and exchange program for pneumatic, electric, and hydraulic actuation.

- Seal, o-ring, and bearing upgrades available for most cylinders
- Complete motor operator repair including control electronics, limit/torque switches, gear drives, and motors
- Complete hydraulic operator repair including controls, servo valves, cylinders, accumulators, and motors
- Local fabrication of brackets, mounting plates, trunnions, yokes, and drive nuts

Pressure Relief Valve Services

National Board certified repair of safety and relief valves regardless of manufacture, media, or pressure class. Certified services are available on-site or at one of our local repair facilities.

- Repair record greater than 90% compared to replacement with new product
- Secure on-line record of survey, testing, and repair available through our ETS website
- Mobile repair trailers, on-site rebuilding, and AVK testing equipment



Pump Services

Pump repair services including centrifugal, positive displacement, progressive cavity, gear, multi-stage, end suction, back pullout, and others.

- Packing, mechanical seal, flush housing, and coupling upgrades available for most manufacturers
- Weld repair of body, impeller, lobe, auger, gear, etc... via certified, audited processes
- Ambient and heat treated ceramic coatings available to extend MTBF and operational efficiencies
- On-site water usage, MTBF, and RCFA consulting

Leak Seal Services

Leak seal of air, water, steam, or process media from valve bonnets/packing, flanges, couplings, taps, or pipe can be completed without process interruption.

- Significant experience in multiple industries and hundreds of process applications
- Large inventory of sealants, injector valves, injector rings, and enclosures
- Supported by local, full service welding, machining, fabrication, and repair facilities