



## In Field Mobile Valve Repair and Testing



Mec-Tric Control Company is pleased to announce the recent addition of our mobile valve repair and testing vehicle. We are aware that some of our longstanding customers request on site repair and testing and have developed a platform to accommodate these requests. Please inquire on how we can offer solutions to your valve repair needs.

Mec-Tric Controls is privileged to have a National Board (NB) accredited Valve Repair and Valve Assembler Shop. This accreditation involves consistent calibration of our testing devices (Air, Steam, Liquid) as well as procedures relating to the verification of safety relief valve set pressure, blowdown (pressure at where valve reseats/closes relative to set pressure) and valve integrity. As a National Board certified valve repair shop, Mec-Tric Controls adheres to all regulations and procedures instituted by ASME Section I and Section VIII in addition to National Board Inspection Code (NBIC) guidelines relating to valve repair.

Mec-Tric Controls maintains two ASME Certificates of Authorization for the use of Code symbol stamps. These authorizations are as an assembler of safety and safety-relief valves for:

- Code Section I, "V" Stamped Power Boiler Safety Valves
- Code Section VIII, "UV" Stamped Pressure Vessel Relief Valves

The National Board Certificate of Authorization for use of the VR repair symbol stamp is also maintained. The scope of this authorization includes:

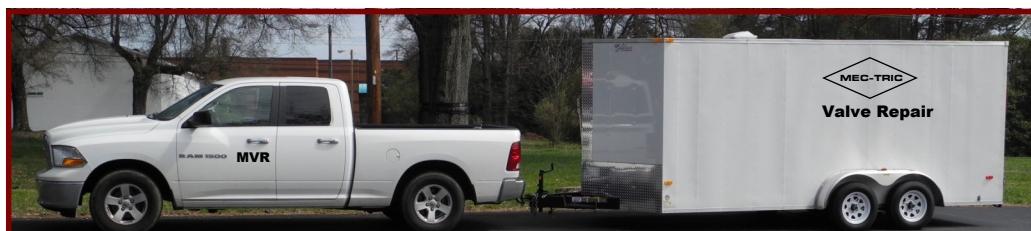
- ASME Code Sections – I and VIII
- Location – Shop and Field Repairs
- Test Media – Air, Gas, Steam (in house), and Liquid.



Fully equipped Test and Repair vehicle



J-Tube testing device shown on right



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## In Field Mobile Valve Repair and Testing

We offer Pretest/Visual Inspection services in addition to Test and Repair/Overhaul services to customers to ensure their safety relief valves are working according to their original design.

Equipment included on Field Vehicle is as follows:

- J-Tube for testing Air, Vapor, Liquid valves to pressures of 350+ Psig.
- Sand Blaster for valve cleaning and rust removal.
- Lathe for Machining seats and valve stems.
- Valve tagging equipment.
- AVK system for valve in place testing and larger valves.
- Air compressor for plants that are completely shut down with limited air supply.
- Tools.
- Capacity to return valves to shop for further rework.
- Nitrogen on board for higher set pressure testing.
- Lapping equipment.
- Grinder / Wire Brush.
- Inlet adapters including sanitary valves.
- Specializing in valve testing above rupture discs.



Test and Set Pressure

### AVK Valve In Place Test System

Mec-Tric Control Company offers a lift assist device that allows for the testing of safety relief valves while still in line, and operational. The AVK is an electro-hydraulic computerized testing unit that when connected to the valve records the pressure at which the valve lifts. The AVK connects to the stem of the safety valve and measures the vertical forces exerted by the spring and load train of the valve. These tests are preformed while your system is under pressure, therefore no loss of production is incurred due to removing safety relief valves. The documentation provided will satisfy ASME & Insurance inspectors.



Valve requirements for the AVK are the following: 50% of set pressure under the valve, must be flanged, must be at least a 21" clearance above the valve, service must be non-liquid, and non-hazardous vapors. The AVK is ideal for testing valves in place which will determine which valves need to be pulled out of service for repair, and which can remain inline through another cycle. The AVK reduces manpower and downtime expenses.



Lathe for machining valve seats



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