

Stefan Higgins

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SUMMARY

Industrial valve technician with five years of hands on experience repairing, rebuilding, inspecting, measuring, calibrating, and testing valve assemblies in rail and industrial service environments. Work includes safety relief, ball, gate, butterfly, bottom outlet, flow control, and related valve equipment, plus pneumatic, hydraulic, and electric actuators. Skilled at disassembly, cleaning, defect identification, component replacement, reassembly, pressure testing, leak testing, gauge checks, and complete repair documentation. Applies drawings, schematics, **scopes of work**, documented procedures, Quality Control requirements, and **ASME National Board standards** during customer specification repairs. Comfortable using hand tools, power tools, cutting torches, **precision testing equipment**, tape measures, shop math, and Microsoft Office. Performs safely in confined spaces, at elevated heights, and at **customer job sites** while coaching newer technicians on dependable repair and testing practices.

EXPERIENCE

Valve Technician II January 2024 - Present
Appalachian Valve and Rail Service Chattanooga, TN

Supports rail and industrial customers through controlled valve **rebuilding**, actuator service, precision testing, and traceable quality documentation. Coaches newer technicians, supports customer site assignments, and applies documented procedures, drawings, scopes of work, and ASME National Board requirements.

- Rebuilt safety relief, ball, gate, butterfly, and **bottom outlet valves** through final pressure testing.
- Measured cleaned components for wear, dents, sealing damage, loose attachments, and replacement decisions.
- Serviced pneumatic, hydraulic, and **electric actuators**, confirming travel and interface condition before reassembly.
- Recorded leak, pressure, gauge, calibration, and material results within traceable quality records.
- Applied drawings, repair procedures, **Quality Control** checkpoints, and **ASME National Board standards** during repairs.
- Coached newer technicians on safe tools, **inspection** sequence, documentation, and repeatable test setup.

Industrial Valve Technician May 2022 - December 2023
Southeastern Process Repair Dalton, GA

Repaired mixed industrial valve fleets through teardown, cleaning, measurement, component selection, rebuilding, testing, and record completion. Used shop tools, drawings, scopes of work, Microsoft Office, and safe work practices around heavy and pressurized equipment.

- Repaired safety, flow control, ball, gate, and **butterfly valves** according to individual repair scopes.
- Cleaned reusable parts, measured critical features, and selected approved replacements after component inspection.
- Used hand tools, **power tools**, and **cutting torches** around heavy and pressurized equipment safely.
- Read **basic drawings** and scopes of work before confirming configurations, requirements, and test criteria.
- Conducted pressure and leak tests, escalating abnormal readings for added inspection before release.
- Entered repair details, **test results**, **material usage**, and maintenance history into Microsoft Office records.

Valve Repair Technician October 2021 - April 2022
Blue Ridge Mechanical Services Cleveland, TN

Built foundational **industrial valve repair** experience through supervised teardown, cleaning, inspection, assembly, testing, and documentation. Supported senior technicians with accurate measurements, organized components, fixture preparation, safe site work, and repeatable shop practices.

- Supported supervised teardown, cleaning, **inspection**, assembly, and testing of valve configurations.
- Marked visible defects and organized components so senior technicians could make efficient **repair** decisions.
- Replaced seals, hardware, and approved components using documented procedures and **basic drawings**.
- Used tape measures and **shop math** with whole numbers, fractions, and decimals for repairs.
- Prepared fixtures, **gauges**, and assemblies while recording readings and calibration related documentation.
- Completed confined space and elevated work assignments under site safety controls.

PROJECTS

Customer Valve Test Records 📅 2024

Partnered with technicians during repair closeout, checking test readings, calibration details, material usage, and work performed before customer records were completed.

Actuator Service Workflow 📅 2023

Worked alongside senior technicians to organize pneumatic, hydraulic, and electric actuator checks, helping create a steadier repair sequence for shop teams.

LEADERSHIP & AWARDS

- Recognized by shop leadership for coaching newer technicians on safe repair and testing practices.
- Trusted with customer site assignments requiring careful documentation, equipment testing, and disciplined safety practices.
- Selected to support repeatable inspection and test setup methods across valve repair work.

EDUCATION

Industrial Maintenance Technology Diploma

2021

Chattanooga State Community College GPA: 3.5

Chattanooga, TN

Coursework: Industrial valve repair, mechanical systems, precision measurement, safety practices

CERTIFICATIONS

- Industrial Maintenance Technology Diploma 📅 2021
- Confined Space and Elevated Work Training 📅 2021

TECHNICAL SKILLS

- **Valve Types:** Safety relief valves, ball valves, gate valves
- **Additional Valve Types:** Butterfly valves, bottom outlet valves, XS flow valves
- **Actuator Systems:** Pneumatic actuators, hydraulic actuators, electric actuators
- **Testing Equipment:** Pressure testers, leak testers, precision gauges
- **Measurement Tools:** Tape measures, calipers, dimensional gauges
- **Shop Tools:** Hand tools, power tools, cutting torches
- **Technical Documents:** Schematics, basic drawings, scopes of work
- **Quality Systems:** Quality Control, repair procedures, inspection checkpoints
- **Standards:** ASME National Board standards, customer specifications, test criteria
- **Documentation Tools:** Microsoft Office, repair records, calibration records

SKILLS

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|--------------------|-------------------------|------------------|--------------------|
| • Valve repair | • Component inspection | • ASME standards | • Power tools |
| • Pressure testing | • Precision measurement | • Schematics | • Microsoft Office |
| • Leak testing | • Valve rebuilding | • Scope of work | • Job site safety |
| • Actuator service | • Quality Control | • Shop math | |

PROFESSIONAL AFFILIATIONS

- Industrial maintenance community, Chattanooga area
- Rail and industrial valve service network

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST