

Metrology

001. Why ValSource for Calibrations?

ValSource calibration and validations teams work together — solving overlaps in process and eliminating scheduling challenges between the project and a third party.

ValSource is also ISO 9001 Certified for Calibration and Calibration Related Consulting Services for Pharmaceutical, Biotechnology, Medical Device, and Other Tech Companies. ISO 9001 Certification ensures our defined process and procedures are high quality, effective and consistently meet client expectations.



002

Pipettes

- Calibrations ranging from 1 μ L to 10,000 μ L using ISO 8655 specifications
- Single Channel, Multichannel, Repeaters, Electronic

003

Temperature Measure Capabilities

Temperature Range: -200°C to 420°C

We can calibrate any device that has an accuracy as tight as $\pm 0.25^\circ\text{C}$ while maintaining our 4:1 TAR which includes but is not limited to:

- Incubators
- Refrigerators
- Freezers
- Autoclaves
- Ovens
- Cryo Temp/LN2
- Refrigerated Centrifuges
- Walk-in Refrigerators/Freezers
- Temperature Transmitters
- Room Temperature Devices
- Water Baths
- Heat Blocks

ValSource is now ISO 9001 certified.



VALSOURCE Metrology

Our expert teams perform instrument calibrations, investigate OOTs, develop entire calibration programs (including personnel training), and improve processes through onsite consulting. Calibrations occur at the same time IQ checks or instrument receipt verifications take place, with instant certificate access through our proprietary PIMSHQ software.

004

Speed

RPM Range: 5 to 200,000 RPM

We can calibrate any device within this range of our standard. Accuracy is $\pm 0.01\%$ of reading. For most speed related devices, our TAR would be approximately 100:1

- Centrifuges
- Shaker
- Mixers
- Pumps

006

Pressure

Automated Processes

- -1 psi to 1000psi
($\pm 0.02\%$ FS)
- ± 30 "H₂O
- Analog Pressure Gauges
- Digital Pressure Gauges
- Pressure Transmitters
- Level Transmitters
- Differential Pressure
- Magnehelic Gauges
- Pressure Switches

008

Temperature Source Capabilities

Temperature Range: -40°C to 375°C

We can calibrate any device that has an accuracy of $\pm 0.25^{\circ}\text{C}$ while maintaining our 4:1 TAR which includes but not limited to:

- RTD (Resistance Temperature Devices)
- Large Scale Autoclaves

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Mass

Mass Range: 10kg to 1mg

- Scales
- Balances
- Min Weigh Testing (USP41)

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Staffing and Consulting

Staffing Capabilities

- Turnkey program start ups and management
- CMMS data migration, implementation, and coordination
- CMMS program development, scheduling and execution
- Laboratory start ups and commissioning
- Creating and monitoring uncertainty budgets
- Long term and short term staffing needs
- All technicians are trained by our SME prior to release to our customers
- All industry standards and procedures are reviewed to meet current industry requirements and technologies

009

Gases

- O₂
- CO₂
- H₂O₂