

Calibrated Leak/Flow Standards

Calibrate or Verify Calibration of Leak and Flow Instruments

- Traceable to NIST
- Manufactured in an A2LA accredited lab
- Integrated into test instruments
- Mount into master calibration parts
- Plug into test line
- Controlled flow applications
- Manufactured to a specified leak/flow rate at a specified pressure
- Shipment with 3 working days



**A2LA Accredited
Calibration Lab to
ISO 17025**

(Certificate Number 1667.01)

Accuracy & Manufacturing Tolerances

Flow Range: 0.49 scc/m or less

- Flow Accuracy $\pm 6.5\%$
- Manufacturing Tolerance $\pm 20\%$

Flow Range: 0.5 to 10.0 scc/m

- Flow Accuracy $\pm 1.4\%$ or ± 0.1 scc/m (whichever is greater)
- Manufacturing Tolerance ± 0.1 scc/m

Flow Range: 10.0 scc/m or greater

- Flow Accuracy $\pm 1.4\%$
- Manufacturing Tolerance $\pm 1.0\%$

For a full description of CTS Leak & Flow Rate Accuracies please view our accreditation document on our website at:

www.cincinnati-test.com/a2la_documentation.html

Flow Range

Flow standards manufactured to ISO 17025 are available with Leak or Flow range:
 1×10^{-5} atm-cc/sec to 50,000 sccm

Pressure Range

Standard holders available within range: -14.7 to 500 psig
Welded holders available within range: 500 to 3000 psig

Integral Assembly

The manufactured flow standard is sealed into one of various assemblies:

- General application (1/8" NPT end fittings)
- Legacy units for Sentinel C20/B-21/I-21/M24 instruments
- New units for Sentinel I28/C28/C20WE/BB instruments
- Compatible replacement units for USON, Ateq, Furness
- Custom mounting configurations

All assemblies include an inlet filter. Most assemblies also include an exhaust filter. The specific assembly is defined as part of the orifice catalog number.

Re-certification

Current flow rate is measured and compared to previous calibration and/or original specified values. If the current flow value is outside the allowable tolerance range, a new orifice is supplied with a flow value $\pm 1\%$ of original value. A new NIST/A2LA certification for the measured flow value is issued.

Request a Quote On-Line

www.cincinnati-test.com

a TASI Group company



Calibrated Leak/Flow Standards

Order and Price Information

520 - LR - Press - Mounting Calibrated Leak/Flow Assembly\$475.00

Leak Rate stated in flow units (i.e. 10 sccm)

Within 0.5 to 50,000 sccm range (may be limited by specified pressure) No adder
 Within 0.1 to 0.5 sccm range (may be limited by specified pressure) \$520.00
 Within 0 to 0.1 sccm range (may be limited by specified pressure) Call CTS

Pressure stated in pressure units (i.e. 100 psi)

Within -14.7 to 300 psig range No adder
 Within 300 to 500 psig range \$520.00
 Over 500 psig Call CTS

Mounting assembly with process connections

- 1** - Inline assembly (1/8" FNPT connections on each end)..... No adder
- G** - General assembly (1/8" FNPT connections on one end only)No adder
- 21** - Straight Thread assembly for Sentinel B-21/I-21 instrument manifold No adder
- 24** - Straight Thread assembly for Sentinel I28/C28/C20WE/BB/M24 instrument manifold No adder
- C20** - CPC quick connect assembly for Sentinel C-20-S instrument manifoldNo adder
- C20FC** - Miniature assembly for Sentinel C-20-F/C (Fast-fill or Cyclone) instrument manifold No adder
- 1/8MNPT** - Compact assembly with 1/8" MNPT connection on one end No adder
- A** - External quick connect for BB and Replacement for ATEQ leak standards No adder
- U** - Replacement unit for USON leak standards No adder
- UM1/4T** - Replacement unit for USON leak standards No adder
- 3** - Customer supplied assembly Call CTS

520-10 sccm-100 psig-C20 Flow standard supplied in CPC mounting assembly for Sentinel C-20-S instrument with a leak rate of 10 sccm at 100 psi

Additional calibration points specified by stating desired pressure value \$90.00/pressure value

Re-certification of CTS flow standards in standard assemblies \$275.00

Re-certification of other flow standards, special assemblies or orifices in parts Call CTS

