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 ±6.5%
- Manufacturing Tolerance ±20%
Flow Range: 0.5 to 10.0 scc/m
- Flow Accuracy ±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 ±1.4%
- Manufacturing Tolerance ±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:
1x10⁻⁵ 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 ± 1% of original value. A new NIST/A2LA certification for the measured flow value is issued.
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 manifold ................. No 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