



HELIUM CALIBRATED LEAK STANDARDS

FSLC Sniffer-Detector Calibrators

The FSLC Model CALIBRATORS FOR SNIFFER-TYPE HELIUM LEAK DETECTORS (also available for SF₆ and other gases)

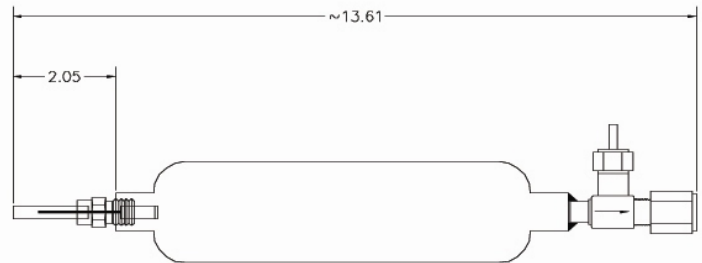
The FSLC Leak Standards have been developed specifically to calibrate sniffer leak detectors. The FSLC model is manufactured with a capillary leak element, which makes it susceptible to clogging in dirty environments and for very small leak rates. However, this model provides good service in most environments in the usual range for "Sniffing" of 10⁻⁴ to 10⁻⁶ atm-cc/sec, and also can be used in special configurations for leak rates as large as 0.1 atm-cc/sec (10⁻¹ atm-cc/sec).



Primarily developed originally for calibrating Helium sniffer-type leak detectors, this model is used also to make Calibrators of Sulfur Hexafluoride (SF₆), Neon, Carbon Dioxide, Hydrogen and other gases.

Choosing the FSLC Calibrator

- UNBREAKABLE – stainless steel capillary leak element.
- FIXED LEAK RATE – for simple operation.
- SPECIFY AN EXACT LEAK RATE – your test point.
- WIDE LEAK-RATE CHOICE – the full range that is used for sniffing.
- LOW TEMPERATURE COEFFICIENT – flow rate does not change with temperature.
- EASY PROBE POSITIONING – for repeatable results.
- SUITABLE FOR SF₆ and OTHER GASES – contact the factory with your requirements.
- MEETS ISO REQUIREMENTS - NIST-traceable, A2LA-accredited Calibration Certification.



FSLC Calibrator
Model FSLC-X-HE-300DOT-WFV

Where:

X= Leak Rate Range

HE designates this as a Helium Leak

300DOT designates 300cc DOT approved Reservoir

WFV= Non Bakeable Fill Valve



VTI's Calibration Laboratory is Accredited by the American Association for Laboratory Accreditation.

ACCREDITED
Calibration Laboratory
Certificate No. 1707.01

As the major manufacturer of Calibrated Leaks for all gases, all leak rates, and all makes of leak detectors, VTI supplies them worldwide to users, distributors, and other manufacturers. These Accu-Flow™ Leak Standards are recognized internationally for their superior quality construction and calibration.



HELIUM CALIBRATED LEAK STANDARDS

FSLC Sniffer-Detector Calibrators

ORDERING INFORMATION

The FSLC Calibrators can be ordered for a single specified leak rate within a wide range of values. When ordering or requesting a quotation, please provide the Part Number and also specify the Leak Rate requested using the full description of both the rate and the leak-rate units that you are requesting (for example: 2.0×10^{-4} atm-cc/sec). Also, please specify the manufacturing variance (“tolerance”) that you can allow on that Leak Rate as +/- 40%. or +/- 15%. The usual manufacturing variance is +/- 40% of the requested rate. (For the example rate above, the allowable range as manufactured would be from 1.2 to 2.8×10^{-4} .) A “Special Range” variance is available of +/- 15%. (For the example, this would allow the leak rate, as delivered, to be from 1.7 to 2.3×10^{-4} .) For this special manufacturing variance, an “-SR” is added to the end of the Part Number and there is an addition of \$200 to the price of the Leak.

Please contact us for assistance if you have any technical or ordering questions or want a customized Leak or manufacturing variance. Other leak-rates units, such as Torr-liters/sec, can be specified and calibration data will be reported in the units requested. Calibrated Leak Standards of many gasses other than Helium (such as SF₆, Ne, H₂, CO₂) can also be provided in the FSLC model. Please ask us about availability.

“Special Orders” are everyday products for us ! Just let us know what you need !

PART NUMBER BUILD-UP

The FSLC Part Numbers are constructed as follows:

FSLC-X-HE-1/4T-YYYYYY-WFV

where X = the code for the Leak Rate Range and YYYYYY = the code for the size of Reservoir.

The X and YYYYYY codes are listed in the box.

As noted above, an “-SR” is added to the end of the Part Number to identify the special manufacturing variance of +/- 15% on the Leak Rate (instead of the usual +/- 40% variance).

<u>ORDER CODES</u>	
<u>X Code</u>	<u>For Leak Rates from:</u>
3	1.0 TO 9.9×10^{-3} atm-cc/sec
4	1.0 TO 9.9×10^{-4} atm-cc/sec
5	1.0 TO 9.9×10^{-5} atm-cc/sec
6	1.0 TO 9.9×10^{-6} atm-cc/sec
<u>Y Code</u>	<u>For Reservoir size:</u>
150DOT	150cc
300DOT	300cc
500DOT	500cc
1000DOT	1000cc

The FSLC model is identified as a Fixed-rate Calibrated Leak with a crimped stainless steel capillary leak element and is specifically designed for calibrating Sniffer-type leak detectors. The “HE” in the part number identifies this as a Helium Calibrated Leak and the “WFV” designates the particular Teflon-packed stainless steel Fill Valve used on this product. For FSLC models with other gasses, please contact VTI for part number information.

COMMON PART NUMBERS FOR FSLC MODEL LEAKS

<u>Common Part Numbers</u>	<u>For a specified Value in this Range:</u>	<u>Reservoir Size</u>
FSLC-3-HE-1/4T-1000DOT-WFV-1500PSI	1.0 TO 9.9×10^{-3} atm-cc/sec	1000cc
FSLC-4-HE-1/4T-1000DOT-WFV	1.0 TO 9.9×10^{-4} atm-cc/sec	1000cc
FSLC-4-HE-1/4T-500DOT-WFV	1.0 TO 3.0×10^{-4} atm-cc/sec	500cc
FSLC-5-HE-1/4T-500DOT-WFV	1.0 TO 9.9×10^{-5} atm-cc/sec	500cc
FSLC-5-HE-1/4T-300DOT-WFV	1.0 TO 9.9×10^{-5} atm-cc/sec	300cc
FSLC-5-HE-1/4T-150DOT-WFV	1.0 TO 3.0×10^{-5} atm-cc/sec	150cc
FSLC-6-HE-1/4T-150DOT-WFV	1.0 TO 9.9×10^{-6} atm-cc/sec	150cc
FSLC-6-HE-1/4T-300DOT-WFV	1.0 TO 9.9×10^{-6} atm-cc/sec	300cc

Larger leak rates and other reservoir sizes are available – just ask us !

VACUUM TECHNOLOGY INCORPORATED Oak Ridge, Tennessee USA

Toll-Free: 800-704-4774

Fax: 865-481-3788

sales@vacuumtechnology.com

www.vacuumtechnology.com

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