

RESERVOIR

FAST | ACCURATE | ACCREDITED

LEAK STANDARD

MATRIX



CM51L-71111V0/1

LEAK RATE EXPONENT

+2 to -10 = Specifies Leak Rate Decade Range

CALIBRATION POINTS

1 = Single Pressure Calibration

= Additional Calibration Points

EXHAUST

A = Into Atmosphere (760 Torr)

V = Into Vacuum (<100 mTorr)

PREFIX

CM51L-71111V0/1

LEAK ELEMENT

5 = Micro Tube Capillary

3 = Micro Tube Permeation

ISOLATION VALVE

0 = None

1 = Manual Valve

2 = Solenoid Valve, 24 VDC

3 = Zero-Volume Valve, Manual

4 = Bakable Valve

5 = Zero-Volume Valve, Pneumatic

6 = Pneumatic Iso Valve, 3-Way

OPTIONS

0 = None

G = Pressure Gauge

X = Special



LEAK RATE UNIT

/1 = Atm.cc/sec

/2 = Std.cc/sec

/3 = sccm

/4 = mbar.L/sec

/5 = Torr/L/sec

/6 = Pa.m3/sec

/7 = Oz/year

/8 = Gr/year

/9 = Mol/sec

/B = Std.cc/hr

/C = CFM

GAS

1 = Helium (He)

2 = Air

3 = Argon (Ar)

4 = Nitrogen (N₂)

5 = Carbon Dioxide (CO₂)

6 = Nitrus Oxide (N₂O)

7 = Helium 3 Isotope (He³)

8 = Carbon Monoxide (CO)

9 = Oxygen

A = R-12 Refrigerant

B = R-22 Refrigerant

C = Hydrogen (H₂)

D = Deuterium (D₂)

E = Sulfur Hexafluoride (SF₆)

F = Neon (Ne)

G = Xenon (Xe)

H = R-134a Refrigerant

J = Methane (CH₄)

K = Krypton (Kr)

L = R-404a Refrigerant

M = R-290 Refrigerant

O = Carbon Monoxide (CO)

P = R-407c Refrigerant

R = R-410 Refrigerant

S = Ammonia (NH₃)

T = Halon 1301

LEAK RATE MANTISSA

X = Any Value Within Range

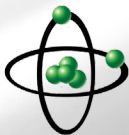
L = Low (1 - 3)

M = Mid (4 - 6)

H = High (7 - 9)

1.0 - 9.0 = Specific Values

(Can specify values out to 1 or 2 decimal places, i.e. 1.2 or 1.25)



RESERVOIR

0 = None

1 = Laco Reservoir (115 cc)

2 = 300 cc DOT

4 = 150 cc DOT

5 = Dual Reservoir

6 = 1000 cc DOT

7 = 500 cc DOT

CONNECTION

0 = NW 16 Flange

1 = NW 25 Flange

2 = NW 40 Flange

3 = 1 1/8" OD Tube

4 = 3/4" OD Tube

5 = 1/4" Male VCR

6 = 1/4" Swagelock

7 = 1/8" FNPT

8 = 1/4" MNPT

9 = 10-32 Male with O-ring

A = 3/8" OD Tube

B = 1/8" MNPT

C = 1/4" FNPT

D = Universal Sniffer Probe Adaptor

E = 2.75" Con-Flat (CF) Flange

J = 1.33" Mini Con-Flat (CF) Flange



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OPEN-STYLE

FAST | ACCURATE | ACCREDITED

LEAK STANDARD

MATRIX

LEAK RATE EXPONENT

+2 to -10 = Specifies Leak Rate Decade Range

CALIBRATION POINTS

1 = Single Pressure Calibration
= Additional Calibration Points

EXHAUST

A = Into Atmosphere (760 Torr)
V = Into Vacuum (<100 mTorr)

INLET PRESSURE

= Pressure Value Applied at Inlet
(Leave blank if no inlet pressure is specified)

FLOW

T = Total Flow
P = Partial Flow
(Use only if gas concentration is not 100%)

PREFIX

CM51M-410SDA0/1/1-3/10T

LEAK ELEMENT

5 = Micro Tube Capillary
3 = Micro Tube Permeation

GAS

- 1 = Helium (He)
- 2 = Air
- 3 = Argon (Ar)
- 4 = Nitrogen (N₂)
- 5 = Carbon Dioxide (CO₂)
- 6 = Nitrus Oxide (N₂O)
- 7 = Helium 3 Isotope (He³)
- 8 = Carbon Monoxide (CO)
- 9 = Oxygen
- A = R-12 Refrigerant
- B = R-22 Refrigerant
- C = Hydrogen (H₂)
- D = Deuterium (D₂)
- E = Sulfur Hexafluoride (SF₆)
- F = Neon (Ne)
- G = Xenon (Xe)
- H = R-134a Refrigerant
- J = Methane (CH₄)
- K = Krypton (Kr)
- L = R-404a Refrigerant
- M = R-290 Refrigerant
- O = Carbon Monoxide (CO)
- P = R-407c Refrigerant
- R = R-410 Refrigerant
- S = Ammonia (NH₃)
- T = Halon 1301

LEAK RATE MANTISSA

X = Any Value Within Range
L = Low (1 - 3)
M = Mid (4 - 6)
H = High (7 - 9)
1.0 - 9.0 = Specific Values
(Can specify values out to 1 or 2 decimal places, i.e. 1.2 or 1.25)

ISOLATION VALVE

0 = None
1 = Manual Valve
2 = Solenoid Valve, 24 VDC
3 = Zero-Volume Valve, Manual
4 = Bakable Valve
5 = Zero-Volume Valve, Pneumatic
6 = Pneumatic Iso Valve, 3-Way

INLET CONNECTION

0 = No Inlet Connection
A = 1/8" FNPT
B = 1/8" MNPT
C = 1/4" FNPT
D = 1/4" MNPT
E = 1/4" Male VCR
F = 1/4" Swagelock
J = NW 16 Flange
K = NW 25 Flange
L = NW 40 Flange
N = 1.33" Mini Con-Flat (CF) Flange
S = Push-in, 1/4"

OPTIONS

0 = None
G = Pressure Gauge
X = Special

OUTLET CONNECTION

0 = NW 16 Flange
1 = NW 25 Flange
2 = NW 40 Flange
5 = VCR4 Male
6 = 1/4" Swagelock
7 = 1/8" FNPT
8 = 1/4" MNPT
9 = 10-32 Male with O-ring
B = 1/8" MNPT
C = 1/4" FNPT
D = Universal Sniffer Probe Adaptor
E = 2.75" Con-Flat (CF) Flange
J = 1.33" Mini Con-Flat (CF) Flange
L = Straight Thread, M8 Bolt Male

GAS CONCENTRATION

= Concentration Percentage
(Use only if gas concentration is not 100%)

PRESSURE UNIT

1 = PSIA - Absolute
2 = PSIG - Relative
3 = Atm - Absolute
4 = Torr - Absolute
5 = mTorr - Absolute
6 = Microns - Absolute
7 = Bar - Absolute
8 = mbar - Absolute
9 = Pascal - Absolute
A = Kpa - Absolute
B = InHg - Absolute
C = InHg - Relative
D = InWater - Relative
E = mmHg - Absolute
M = MPa - Relative
(Leave blank if no inlet pressure is specified)

LEAK RATE UNIT

1 = Atm.cc/sec
2 = Std.cc/sec
3 = sccm
4 = mbar.L/sec
5 = Torr/L/sec
6 = Pa.m3/sec
7 = Oz/year
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9 = Mol/sec
B = Std.cc/hr
C = CFM



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