

SPECIFICATIONS

Materials

Body: Electropolished 304 stainless steel

Flanges

Inlet: 1.33 CF, rotatable,
clearance bolt holes

Outlet: 2.75 CF, nonrotatable,
clearance bolt holes

Poppet: Sapphire

Poppet seat: Copper

Actuation: Manual, adjustable set point

Maximum temperature

Sustained: $\leq 250^{\circ}\text{C}$

Intermittent: $\leq 450^{\circ}\text{C}$

Vacuum range: $\geq 1 \times 10^{-11}$ Torr - UHV

Minimum leak rate

Normal: 1×10^{-10} Torr l./sec.

Non-condensable gas: 1×10^{-8} Torr l./sec.

Inlet gas pressure: 500 psig maximum

Poppet seat life

Unbaked: 250 to 300 closures

$\leq 250^{\circ}\text{C}$: 80 to 100 closures

$\leq 450^{\circ}\text{C}$: 20 to 30 closures

*All dimensions are in inches (mm) & weights
are in pounds (kg), unless otherwise noted.*

Leak Valves

Leak valves are used for controlling gas introduction into high- and ultra-high vacuum systems. They utilize an optically flat sapphire poppet and a metal seal seat, allowing bakeout temperatures to 450°C . These valves are manually actuated by a cantilever arm with precision adjustment threads. The adjustment knobs can be set to allow controlled leak rates as small as 1×10^{-10} Torr l./sec. Replacement sapphire and gasket assemblies are available. Call for pricing.

MODEL NUMBER

LL-275-133

