

# VACUUM TECHNOLOGY Hositrاد



## All Metal Leak Valves

The demountable all metal leak valve is manufactured from 300 series stainless steel to UHV standards, suitable

for controlled admission of gases over a wide pressure range.

Fine control is achieved via the graduated thimble and lever. The lever, used as a reducing mechanism, gives

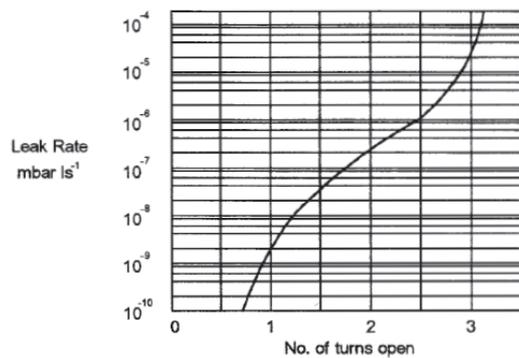
controlled leak rates ranging to 10<sup>-11</sup> mbar l/s-1. Simple rugged design has produced a reliable valve which can

be fitted to vacuum systems with absolute confidence.

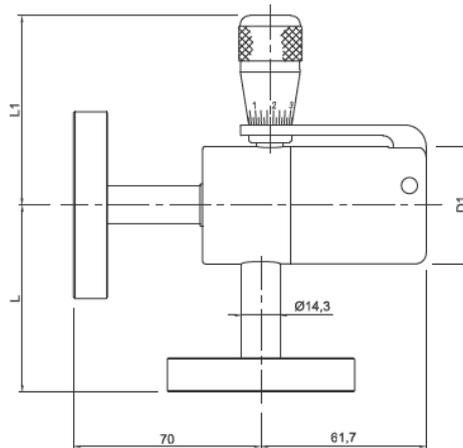
The all metal leak valve by virtue of its design withstands bake-out temperatures associated with UHV systems

without detriment to performance.

Custom version including welded capillary inlets are available.



All Metal Leak Valve, Leak rate vs Opening



## Specifications VML

Pressure range: 1000 to below 10<sup>-11</sup> mbar

Leak rate range: see graph

Operating temperature: -20 °C to + 200 °C

Bake-out temperature: 250 °C Closed 450 °C Open

Operating Media: Any gas compatible with 304 SST and OFHC copper

Vacuum seal: Stainless Steel Diaphragm

Construction materials: 304 SST, OFHC copper (Vacuum) Hardened tool steel (lever)

Operation: Micrometer style screw for precise, repeatable operation

Terminations: CF35 or CF 16 Conflat flanges as standard, other flanges to order.