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Agilent Technologies

979- NW25 Throttle Valve

FIELD INSTRUCTION SHEET

Manual No. 699909986
Revision A
Date October 2002

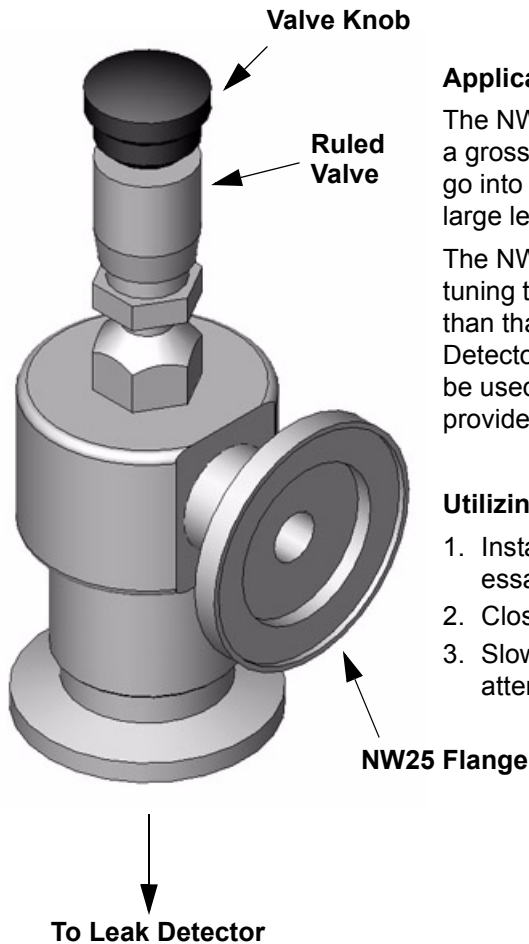
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Field Instruction Sheet

Varian, Inc

LD 979- NW25 Throttle Valve

The Varian NW25 Throttle Valve combines the functions of a Throttle Valve and a Tuning Leak into one effective tool. It provides an uncalibrated source of helium designed to furnish an ample leak rate signal for tuning Varian Leak Detectors. The helium used by the Tuning Leak is the helium which occurs naturally in the air. (Normally present at a concentration of about 5 parts per million. (5ppm)) It can also be attached to a system via the NW25 Flange. The NW25 Throttle Valve admits a small amount of air into the Leak Detector, which is sensitive to the trace of helium. No separate supply of helium is necessary for use with this tool. Helium flow is controlled by a ruled valve at the top of the NW25 Throttle Valve.



Application

The NW25 Throttle Valve may be used in Leak Detector applications in which a grossly leaking part or vacuum chamber will not permit the Leak Detector to go into the Test Mode. It acts as a non-quantitative approach to locating very large leaks in a vacuum system.

The NW25 Throttle Valve is not a calibrated source of helium. Its value in tuning the leak detector lies in the fact that it provides a signal a decade larger than that from a typical calibrated leak, hence it makes tuning the Leak Detector easier. Likewise, it has a ten-segment ruled needle valve which can be used as an aid to gross leak testing or for gross leak calibration. Or even provide an indication of background helium in the testing room air.

Utilizing the NW25 Throttle Valve

1. Install the NW25 Throttle Valve on the Test Port of the Leak Detector. If necessary, attach any appropriate connectors to the NW25 Flange.
2. Close the Ruled Valve by twisting the Valve Knob to the left.
3. Slowly open the Ruled Valve by twisting the Valve Knob to the right. Paying attention to the response from the Leak Detector.

Technical Assistance

The final page of this document lists all the Varian offices from which you can obtain technical assistance. In the United States, contact Varian Customer Service at 1-800-8Varian or on-line at vpl.customer.support@varianinc.com.

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