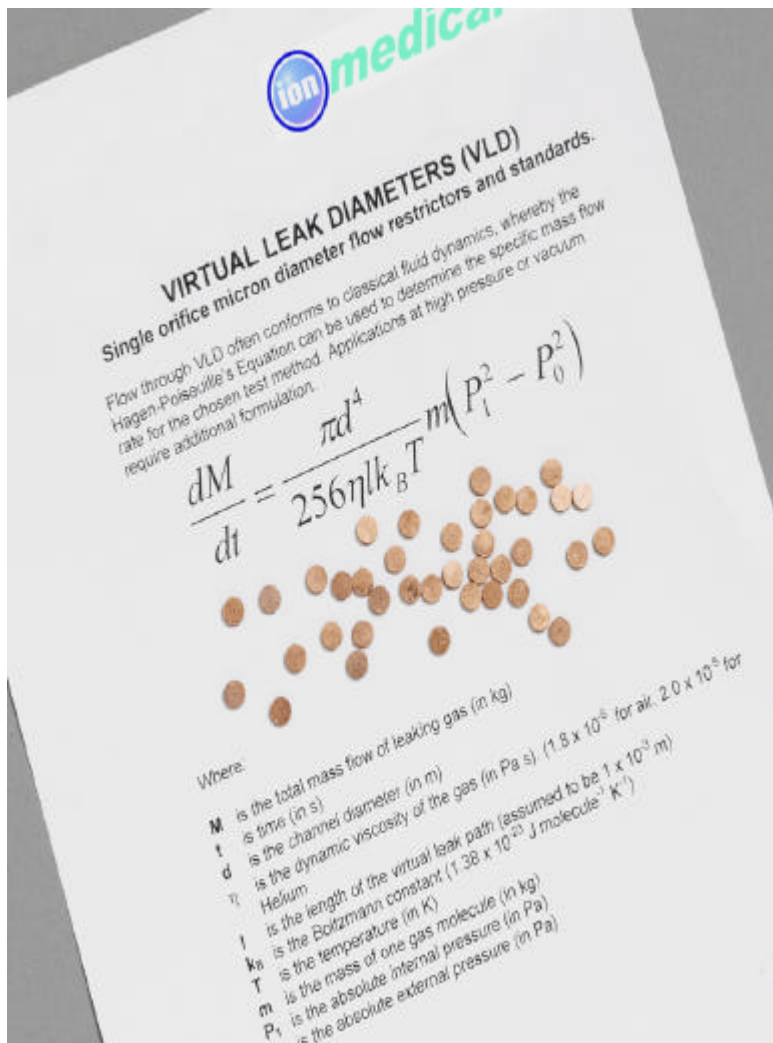


VLD

Single channel flow and calibration standards



Typical applications:

Calibration: Leak & Flow testing instruments (Quality standards) including FORD ES YU5A-9000-AC

Flow nozzles: Printing etc.

Flow & Pressure regulation: Industry, laboratories.

Seal integrity testing:

Packaging, Medical, Food, Electronics. Pharmaceutical.

IP (Ingress Protection) EN 60529/IEC 529.

Porosity: Analysis of materials & performance.

Replaces: Sinters, restrictors, needle valves, and nozzle jets.

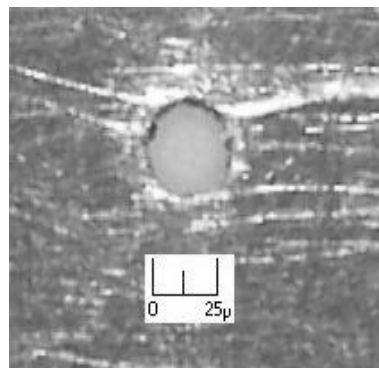
Overview:

The global acceptance of ISO 9000 and Six Sigma quality standards has raised a demand for predictable and traceable measurement, calculated from gas laws and physics. Leak/Flow acceptance standards are increasingly specified as maximum VLD's.

Calculation logic:

As VLDs are defined by a single orifice diameter this can be used to approximate flow rates.

High pressure and high vacuum applications fall outside this standard and require additional formulation, contact us for your calculation.



VLD

Single channel flow and calibration standards

VLDs offer the technically correct solution to the control or calibration of a gas or liquid flow. Ion medicare are specialist in fabricating small holes, calibrating and certifying, ready for use directly in a component or as fitting shown below.

Holes are 1micrometer and larger. Flow rates start at 0.01ml/min with maximum pressure 60bar. Holes are calculated and VLDs fabricated to specific customer applications. Tell us your testing specification and we will advise the VLD.

Once calibrated, the flow at any set controlled condition can be accurately predicted. Flow is accurate to within a fraction of 1%. Removable internal filtration protects the VLD.

Applications include, Critical flow & pressure setting & control, particle separation, injection mixing, ink jet nozzles etc.

VLD disc



With Quick-fit male



Assembly & Filter



With Quick-fit male & female



TECHNICAL SPECIFICATION

VLD:

Diameter:- 6mm

Thickness:- 1 to 1.7mm.

VLD sizes:- 1 to 1000micron.

FLOW RATE:-

0.01 to 1000ml/min, others on request.

MAXIMUM PRESSURE

DIFFERENTIAL:-

60 bar.

FILTRATION:

(removable) 2.5 & 10micron particulate depending on VLD.

VACUUM & PRESSURE APPLICATIONS.

VLD MATERIAL:

Cu alloy.

HOUSING MATERIAL:

Stainless Steel.

THREAD SIZES:

1/8BSP male & Female.

'O' RING MATERIAL:

Viton

ISO9002 certified.



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