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## Fundamentals Of Vacuum Technology

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revised and compiled by Dr. Walter Umrath with contributions from Dr. Hermann Adam □, Alfred Bolz, Hermann Boy, Heinz Dohmen, Karl Gogol, Dr. Wolfgang Jorisch, Walter Mönning, Dr. Hans-Jürgen Mundinger, Hans-Dieter Otten, Willi Scheer, Helmut Seiger,

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## Fundamentals of Vacuum Technology

Vacuum technology is usually associated with three types of flow: viscous or continuum flow; molecular flow; and a transitional range between these two known as Knudsen flow.

Viscous (or continuum) flow is found in the rough vacuum range and is determined by the close interaction of molecules. There are three subdivisions of viscous flow: □turbulent flow□ (if vortex motion appears in the

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streaming process); [Poiseuille flow] where layers slew over each other (which is frequently the ...

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In other words, vacuum technology uses the surrounding atmosphere to create force and pull on a workpiece. The vacuum itself exerts no force; the air outside of the container exerts the force. Venturi vacuum pumps use compressed air to draw the gasses along with any debris, dirt or dust out of the chamber.

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## Fundamentals of Vacuum | Hydraulics & Pneumatics

### Fundamentals of Vacuum Technology

- Physical fundamentals of vacuum technology - What is vacuum? - Designations, units - Vacuum ranges, flow types -... Vacuum pumps - Function, design and operation
- Vacuum pumping stations
- Vacuum systems
- Vacuum measurement - Total pressure measurement ...

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appeared in 1987. LEYBOLD has in  
the meantime introduced a number of  
new developments in the field. These  
include the dry-running ALL×ex



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technology of vacuum the basic concepts of a gas composed of atoms and molecules are presented. These gas particles are contained in a partially empty volume forming the vacuum. The fundamentals of vacuum, molecular density, pressure, velocity distribution, mean free path, particle velocity,

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## INTRODUCTION TO THE PRINCIPLES OF VACUUM PHYSICS Fundamentals of Vacuum Technology.

Preface. This edition of the Fundamentals of Vacuum technology goes into great detail on many topics. Among these are residual gas analyses at low pressures, measurement of low pressures, pressure monitoring, open- and closed-loop pressure control, and leaks and

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their detection.

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many chemistry applications. In  
physics applications, it is the objective  
to perform experiments ...

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