

## Fundamentals Of Vacuum Technology

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Fundamentals of Vacuum Technology 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 Munding, 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 sub-divisions of viscous flow: “ turbulent flow ” (if vortex motion appears in the 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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