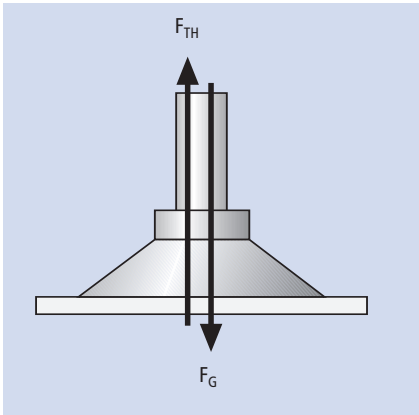


Explanation of the technical data (does not apply to grippers with special functions)

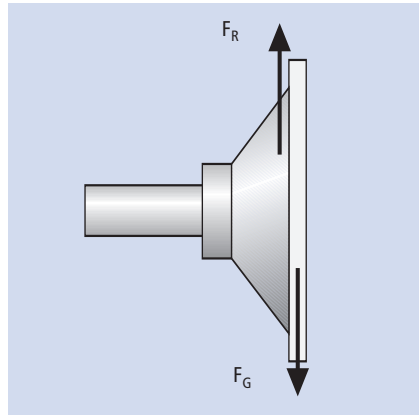
Various calculations must be made for the various components during the planning of a vacuum system. The following sections explain the most important technical data of the suction pads in order to simplify system design. These explanations do not apply to the special suction pads in Section 3.

Theoretical suction force



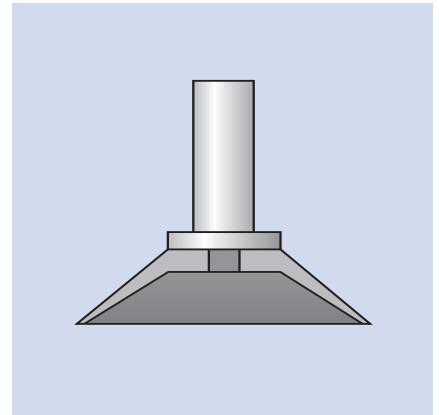
The theoretical value in N at a vacuum of -0.6 bar (at sea level). Depending on the operating conditions, this value may have to be reduced in order to take the necessary safety factor, the losses due to friction or a lower vacuum value (due, for example, to a porous workpiece).

Lateral force



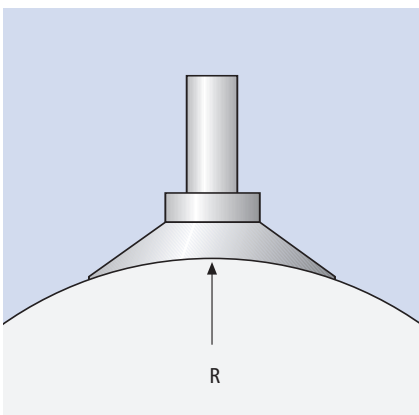
The measured value in N at a vacuum of -0.6 bar on a dry or oily, flat and smooth workpiece surface. These values do not include a safety factor.

Internal volume



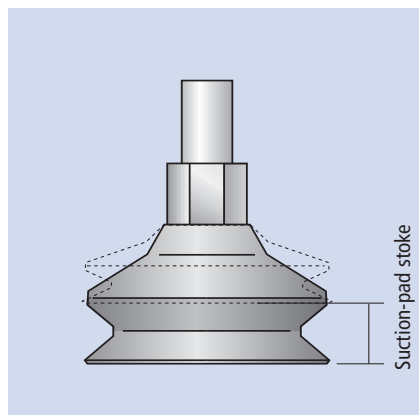
This is used to calculate the total volume of the gripper system and also affects the calculation of the evacuation time.

Minimum radius of curvature of the workpiece



This specifies the minimum radius at which the workpiece can be gripped securely by the suction pad.

Suction pad stroke



This is the lifting effect which occurs during evacuation of the suction pad.