

The invention relates to vacuum technique and may be used in electron-beam and ion-beam tubes. A vacuum free-flow valve comprises a body with cylindrical hollow and an opening with O-ring vacuum seal, a disk being a gate, two through sleeves, which ends are inserted in arched recesses of the disk and fixed on a body wall, an axes, an electromagnetic ring system, mounted in radial slots of the body wall, multiphase winding formed at least by two phase windings, a spring-loaded supporting ring with guide holes. On the disk a ring made of conductive soft magnetic material is fixed; disk is capable of movement and rotation about axes. According to the invention condensers are connected between windings terminals. The invention provides reduction of residual field in ferromagnetic details of the valve and in the same time reduction of overvoltage appearing in winding at the time of swishing off.