

ABSTRACT

INNER CIRCUMFERENCE SEALING STRUCTURE, SEAT STRUCTURE, AND VALVE

An object of the invention of the present application is to provide an inner circumference sealing structure, a seat structure, and a valve, which are capable of reducing operating torque for closing a valve body. An inner circumference sealing structure 16, which is provided on a seat ring 12 of a butterfly valve 10, swells from an inner circumferential surface 12i of the seat ring 12, and allows an outer circumferential surface 14s of a valve body 14 to abut thereagainst, the valve body 14 being to be applied with fluid pressure, is configured by including: a first sealing surface 18(1) that allows the outer circumferential surface 14s of the valve body 14 to abut thereagainst and stop there; an engaging convex portion 20 that restricts rotation of the valve body 14; and an engaging sealing surface 18(3) that allows the outer circumferential surface 14s to abut thereagainst and stop there, in which the inner circumference sealing structure 16 is configured so that the first sealing surface 18(1), the engaging sealing surface 18(3), and the engaging convex portion 20 are arranged in this order in a direction in which the outer circumferential surface 14s of the valve body 14 moves by the rotation of the valve body 14, and is configured so that the engaging sealing surface 18(3) has a larger sealing amount than the first sealing surface 18(1).

[FIG. 1]