

Abstract

Provided is a composite valve device that enables one valve device to fulfill functions corresponding to a plurality of valve devices that distribute a fluid and mix fluids. The composite valve device includes: a fixed-side valve body having: a plurality of flow ports being independent of each other; and branching/mixing flow ports, which are formed such that at least two branching/mixing flow ports correspond to each of the flow ports, the branching/mixing flow ports each allowing a fluid flowing through each of the flow ports to be branched or mixed and flow; and a movable valve body movably arranged in close contact with the fixed-side valve body, the movable valve body having a plurality of variable communication paths, each allowing communication of each of the flow ports and the at least two branching/mixing flow ports corresponding to the flow port while the fluid is branched or mixed at a variable branching/mixture ratio. The composite valve device is configured to function simultaneously as a plurality of valve devices.