

TWO-WAY GATE VALVE

ABSTRACT

The present invention includes: an upper housing 100 having openings that are respectively defined in a front surface and a rear surface thereof and in which first and second moving paths 110 and 120 are defined; a first blade 200 installed in the upper housing 100 to move upward from a lower side, thereby opening/closing the first moving path 110; a first shaft 300 coupled to a lower portion of the first blade 200; a lower housing 400 disposed below the upper housing 100, in which a rotation guide groove 410 for guiding rotation of a L-motion block 500 at a fixed position while the first blade 200 moves in a close direction C is defined in each of both inner surfaces of the lower housing (400); the L-motion block 500 installed in the lower housing 400 and coupled to a lower portion of the first shaft 300, in which the L-motion block 500 includes a first roller 510 inserted into the rotation guide groove 410 on each of both upper portions thereof and a coupling part 520 connected to a moving unit 600 on a lower portion thereof; the moving unit 600 including a rotatable link 610 at a central portion thereof, in which the link 610 has one side connected to the coupling part 520 and the other side connected to a driving unit 700 to rotate the L-motion block 500; a first driving unit 700 connected to the link 610 to vertically move the L-motion block 500; a second blade 800 installed in the upper housing 100 to move downward from an upper side, thereby opening/closing the first and second moving paths 110 and 120 at the same time, in which, while the first and second moving paths 110 and 120 are opened/closed, sealing plates 820 respectively disposed on both sides thereof are spread in outward directions to respectively seal the first and second moving paths 110 and 120; a second shaft 900 coupled to an upper portion of the second blade 800; and a second driving unit 1000 disposed above the upper housing 100 and coupled to the second shaft 900 to vertically move the second blade 900.

Fig. 1