

ONE-WAY LIMITING EXPANDABLE ARTIFICIAL BIOLOGICAL HEART VALVE

Abstract

The present invention discloses a one-way limiting expandable artificial heart valve which comprises a valve seat (1), a valve leaflet stent (2) and three valve leaflets (3) attached to the valve leaflet stent (2), wherein the valve seat (1) comprises a one-way limiting expandable annular metal seat (4), the annular metal seat (4) is composed of three sections of seat body units (5) which are connected with each other in an up-down staggered overlapping manner, the head end of each section of seat body unit (5) is sequentially provided with a first rivet (8), a limiting protrusion (7) and a first long circular groove (6), the tail end of each section of seat body unit (5) is sequentially provided with a second long circular groove (9) matched with the first rivet (8) at the head end of the adjacent seat body unit (5), a second limiting hole (11) and a first limiting hole (10) matched with the limiting protrusion (7) respectively, and a second rivet (12) matched with the first long circular groove (6), and the artificial heart valve has a normal use original state and a one-way limiting expansion state.

FIG. 4