

## ABSTRACT

An aortic adapter assembly is provided, including a T-shaped flow connector, including:  
an inserted conduit portion, having a blood-contacting surface which is smooth; an extruded  
neck portion, wherein the inserted conduit portion is joined with the extruded neck portion;  
5 and a truss, disposed in the inserted conduit portion; wherein the T-shaped flow connector  
has a polymeric elastomer reinforced by the truss having a Nitinol material; wherein the  
inserted conduit portion has an inner wall which is gradually thinning at two conduit ends of  
the inserted conduit portion, with a proper distance of a tip of the conduit end to the outmost  
boundary of the truss, and the conduit end possesses a compliance-matching effect to an  
10 implant site artery; wherein a proximal end of the extruded neck portion is configured to be  
joined with an inlet adapter of a blood pump. The aortic adapter assembly is accompanied  
with a quick-connector type coupler and a deployment method to accomplish an insertion  
type flow communication between a ventricular assist device and the human circulation.

(Fig. 1)