

ASEPTIC CONNECT AND DISCONNECT COUPLER**ABSTRACT**

A coupler for aseptically coupling and controlling fluid communication between at least two components. The coupler includes a first connector housing with an inner concave surface. A first connector extends from the top of the first connector housing and is adapted to connect to a first component. A first connector conduit extends through the first connector and into the first connector housing so as to define a fluid passageway to an inner opening on the inner surface of the first connector housing. A rotary valve is located within an inner cavity of the first connector housing and includes at least two rotary valve segments. The rotary valve segments are configured to rotate within the cavity. At least one of the rotary valve segments includes a fluid conduit extending through the at least one rotary valve segment.

Fig. 1