

CAVITY FILLER BALL VALVE- A UNIQUE CONCEPT

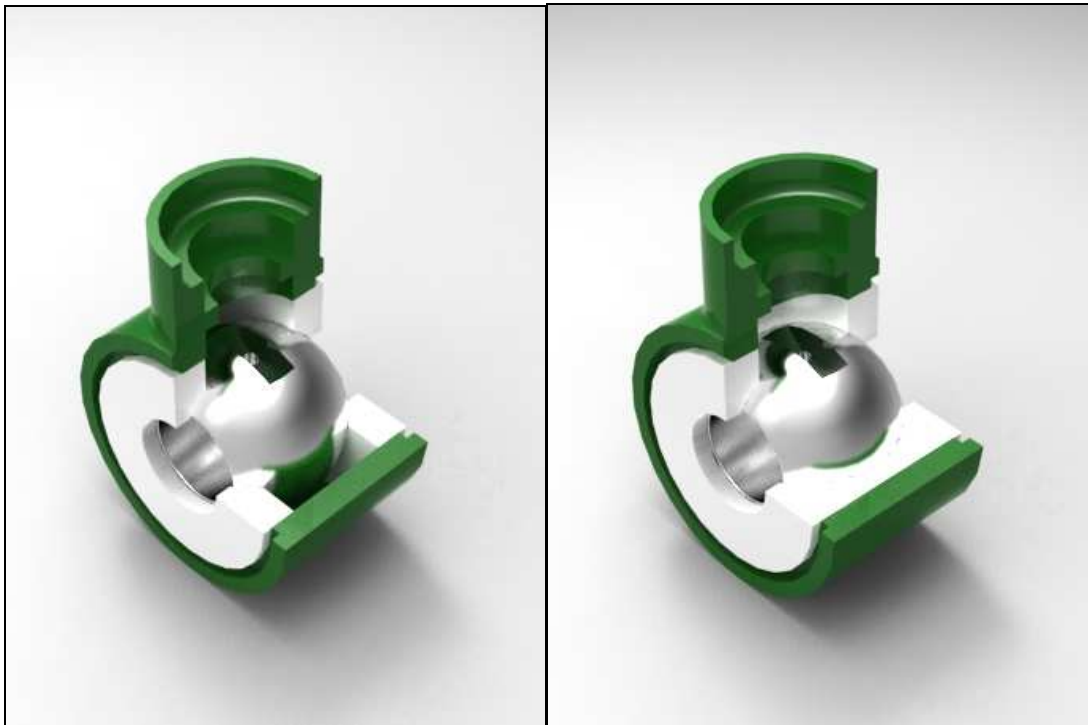


Figure 1 Normal Ball Valve

Figure 2 Cavity Filler Ball Valve

A normal ball valve is shown in Figure 1 above. It consists of a ball supported by two seats. There is an annular space between the cylindrical body bore and the ball as can be seen in Figure 1. When this kind of ball valve is operated, either to open or to close, this space is exposed to the flowing media, albeit for a small period of time. Media gets trapped in the space. In a normal application, this does not have any negative implications. However, in case of food products or any media, which tends to ferment, this entrapped material can lead to contamination.

A Cavity Filler Ball Valve, as the name suggests, can be used where bacterial growth is to be prevented or where cross contamination is to be avoided between different batches. It is clear in the Figure 2 above that the whole annular space between the body and the ball is filled with PTFE. This arrangement ensures that the media does not get an opportunity to enter the annular space thus preventing the lodging of bacteria or other harmful organisms.

In applications like food, pharmaceuticals, paints and dye stuffs, Cavity Filler Ball Valve works exceptionally well and is considered to be a boon to industry.