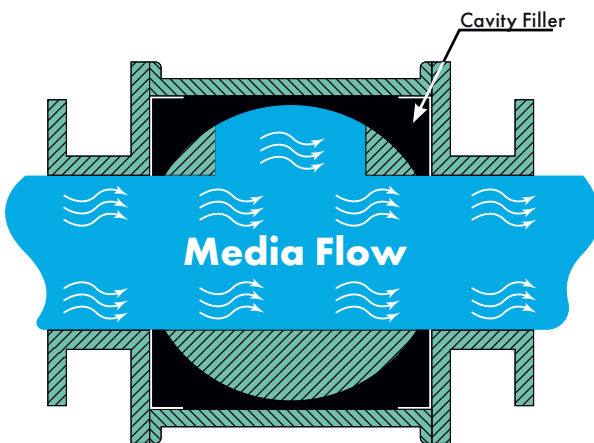


## Flo-Tite's Unique Ball Designs allow for the use of Ball Valves in applications never before possible.



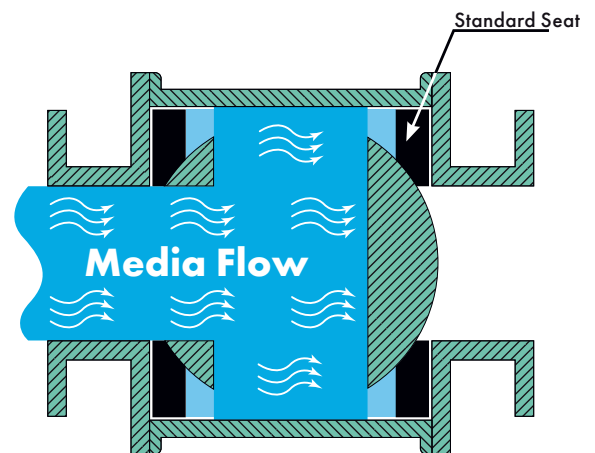
### Open-Port Ball Valve

Flo-Tite's Open-Port Ball Design leaves only the downstream sphere in its completeness. The upstream sphere is exposed and completely open to the valve cavity and the upstream pipeline. This unique ball design also eliminates media from being trapped or captured in the interior of the valve ball when the valve is in the closed position. This design also allows for an easier flushing action when the ball is in its intermediate position.



Valve shown in **Open Position**  
with full body cavity filled

**Open-Port**  
Ideal Design  
For **Green Liquor Service**



Valve shown in **Closed Position**  
with standard seating

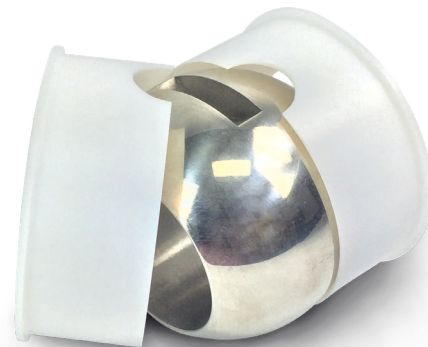
**Cavity Fillers**  
STANDARD PRODUCT NUMBER  
CVF (T) PTFE Cavity Filler  
CVF (F) TFM Cavity Filler  
CVF (S) 50/50 Cavity Filler

### A Safer Valve Design

The Open-Port Ball Designed with no-trapped cavities assures the total elimination of pressure build up due to thermal expansion in standard ball valves.

### Cavity Filler

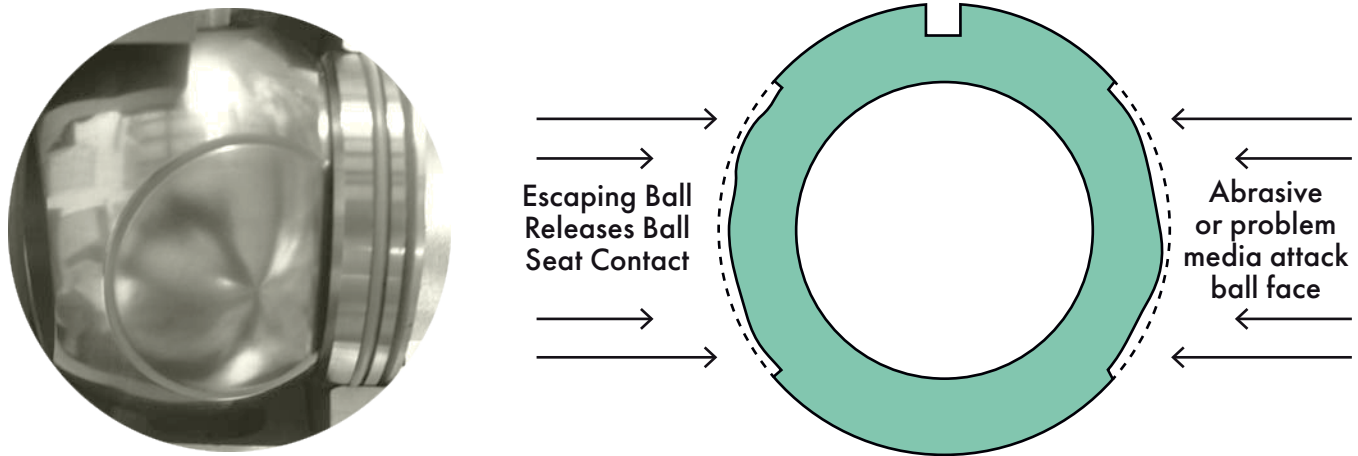
Many Flo-Tite valves can be supplied with full-body cavity fillers. Cavity fillers fill the void normally found behind the ball and the valve body in conventionally designed ball valves. This assures that no media is allowed to become trapped above, below, or around the valve ball or the body cavity. Cavity fillers prevent freezing or seizing, while also reducing the possibility of cross contamination of media.



These unique designs are available in flanged, NPT, and weld end models.

Unique Problem solving ball design eliminates most common problems found in the typical ball valve.

## FLO-TITE'S UNIQUE ESCAPING BALL DESIGN



Our escaping ball valve design is the ideal solution for critical conditions that lead to ball valve failure.

### Avoid these common conditions that led to ball valve failure:

- A) Pitting and Scaring of ball face
- B) Scale build up on ball face
- C) Excessive high torque

The Escaping Ball is designed to eliminate common causes of ball valve failure. Extremely difficult applications, such as corrosive liquors, can pit and scar the ball face or cause a build-up of damaging fluid deposits on the ball face. These issues cause the critical smooth ball surface to become rough and dull, rendering the valve inoperative. Either occurrence may also damage the ball seats, prompting costly valve rebuilding.

Flo-Tite's Escaping Ball Design relieves ball-seat contact during the 90-degree rotation. Full ball seat contact is made at the beginning and at the end of the valves 90-degree stroke. This limited contact results in life expansion with lower operating torques and improved overall performance. The Escaping Ball Design is an exceptional design for metal seated valves when Class VI shut-off is required.

### OPTIONAL

"Chem-TEK" is a special material impregnated directly into all wetted surfaces that prevents the build up of scale commonly found in Green liquor and other severe applications.

### CHROME PLATING

- Chrome plated balls have better corrosion resistance in seawater, sour gas, and oil service.
- The mirror-polish surface reduces torque. The smooth surface improves service life of the soft seats.
- Chrome plated balls work well in **food service**. No contamination sticks to the ball surface.
- Chrome plated balls in throttling services reduce erosion and improves cavitation resistance.
- Erosion resistance is improved in **slurry service**.