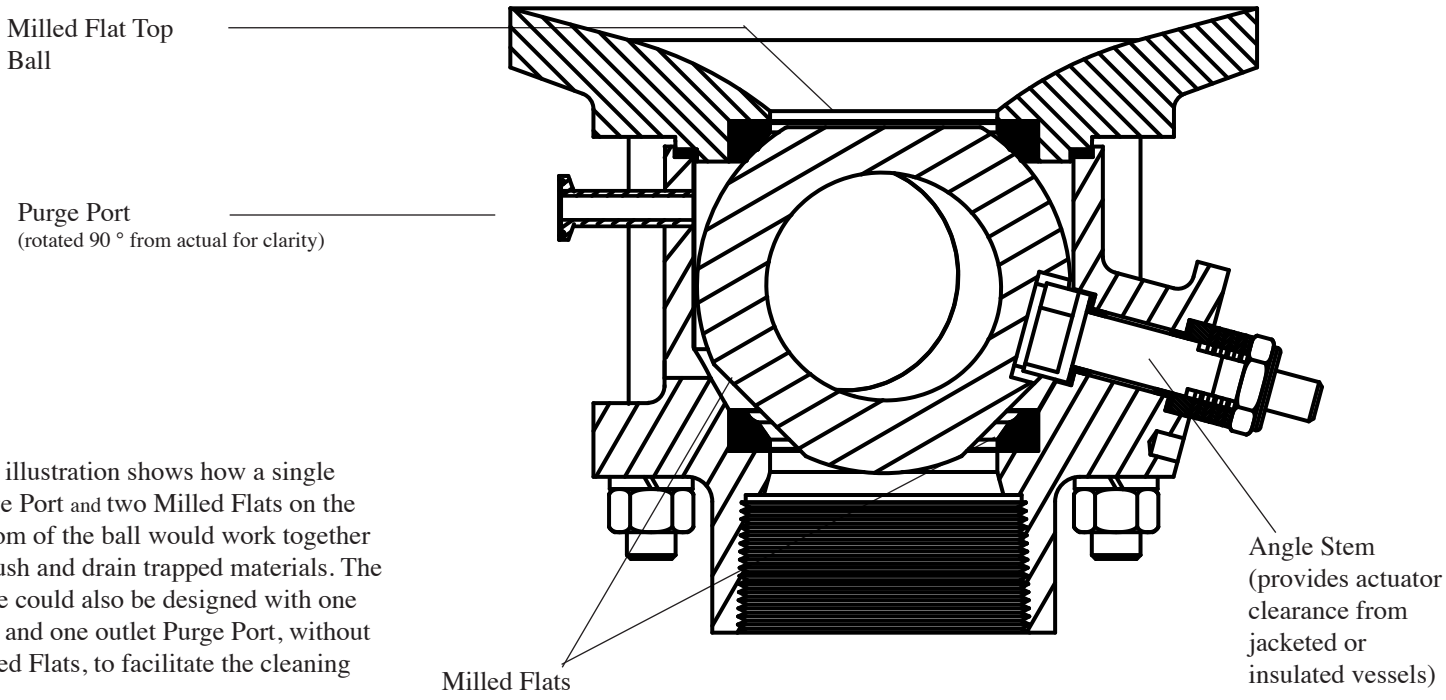
Creative Solutions . . .

Flat Top Ball Valve Eliminates Damage From Crusty Materials



This illustration shows how a single Purge Port and two Milled Flats on the bottom of the ball would work together to flush and drain trapped materials. The valve could also be designed with one inlet and one outlet Purge Port, without Milled Flats, to facilitate the cleaning

Problem

Adhesives, paints, resins, and other viscous materials have a sticky, gummy quality when heated, but become crusty when cool.

When these materials settle on top of a round-faced ball in a standard flush tank ball valve, they form a rounded crust. When the valve is opened, the round-faced ball pushes the crust against the valve seats.

After repeated openings and closings, the hardened crust scores the ball, and the crust-like particles become embedded in the seats. These conditions will cause the valve to leak.

The leaking valve then needs to be serviced, wasting considerable production time and money.

Solution

PBM solved this problem by developing a Flush Tank valve with a milled flat on the top of the ball.

As material from the tank settles, a flat crust is formed on the milled flat top surface of the ball. Then, when the valve is opened, the flat surface moves away from the seats without pushing the crust into the seats. As the crust breaks apart, the flat top creates a space for the crust to be cleaned away easily. Additional features such as Purge Ports and Milled Flats can be added to help flush and drain the body cavity of any trapped media that could seize or score the ball.

Benefits

- Milled Flat Top Flush Tank Valve eliminates leakage caused by ball scoring and seat damage from hardened adhesives, paints, and resins.
- Improved performance reduces downtime and maintenance costs.

Another creative solution by PBM . . .

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Fax, mail, telephone, or e-mail this request to:

Name: Jay Giffen

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