

VALVE SOLUTIONS

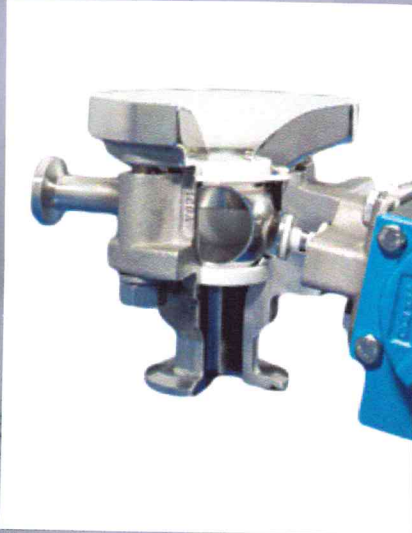
COSMETICS

PBM PROVIDES THE VALVE PRODUCTS AND SERVICES REQUIRED TO MINIMIZE CONTAMINATION, COMPLY WITH SANITARY REGULATIONS, FACILITATE CLEAN-IN-PLACE, SOLVE CLOGGING PROBLEMS, PROCESS FLAMMABLE ADDITIVES, REDUCE DOWNTIME, AND PRODUCE HIGH QUALITY COSMETICS, FRAGRANCES, NUTRITIONALS, AND OTHER PERSONAL CARE PRODUCTS.

FLUSH TANK BALL VALVE KEEPS MEDIA FLOWING SMOOTHLY

During mixing and processing, dead space between the bottom of a tank and the shutoff point of a valve can cause media to build up. This can clog the valve or cause contamination of the process. These problems can be costly and sometimes dangerous, especially when dealing with alcohol-based or other highly flammable additives.

PBM's Flush Tank and Angle Stem Flush Tank ball valves can be provided with a pad that is designed to weld flush to the inside surface of the tank. This enables the ball to be positioned in a way that virtually eliminates dead space.



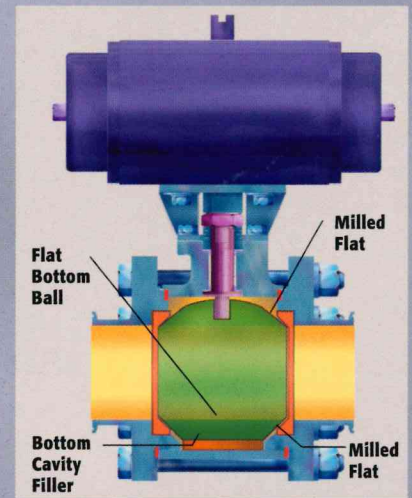
The Angle Stem Flush Tank ball valve is ideal for applications involving jacketed or insulated tanks because it allows the actuator to clear the tank and provides easy valve access. This valve also meets or exceeds API-607, Edition 4, Fire-Test design standards, making it ideal for use with highly volatile media.

2-WAY BALL VALVE IMPROVES PIGGING, CLEANING AND DRAINING

Pigging of process lines is critical in many applications. If lines are not thoroughly pigged, cleaned, rinsed, and drained after each batch, subsequent batches of products could easily be contaminated.

To aid cleaning and draining, PBM's 2-way ball valves can be provided with a flat bottom ball design, a special bottom cavity filler, and two milled flats on the downstream side of the ball in the open position.

After the process lines and the valve are pigged for maximum yield, cleaning and rinsing agents can be run through the valve to



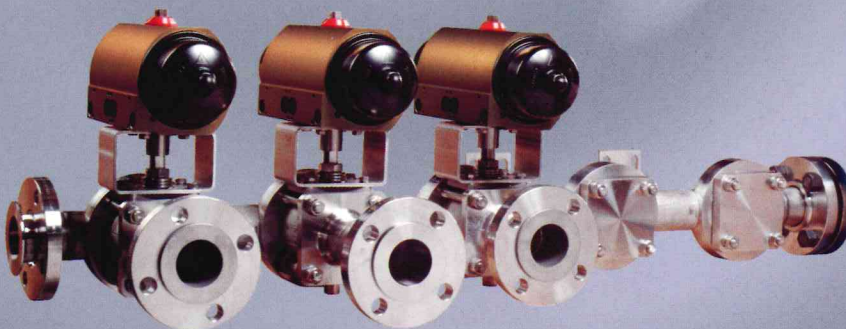
remove any remaining product. Once the valve is cleaned and rinsed, the valve and body cavity self-drain past the two milled flats. The special bottom cavity filler minimizes the amount of media that can puddle instead of draining out of the bottom of the valve.



SPACE-SAVING FABFLEX® ASSEMBLIES SOLVE MULTIPLE PROBLEMS

During batch processing, the ability to vary the additives used per batch and prevent contamination is crucial to both production time and product integrity.

PBM's Fabflex valve and manifold assembly provides an efficient way to satisfy multiple requirements at a single point in the process line. The header assembly



can be supplied in lengths of up to 18' and can accommodate multiple valve configurations with its unique space-saving design. Specially designed cylindrical radius end fitting pads reduce dead

space and prevent product contamination. Available in a variety of materials, including 316L Stainless Steel, the Fabflex assembly is ideal for sanitary applications.

