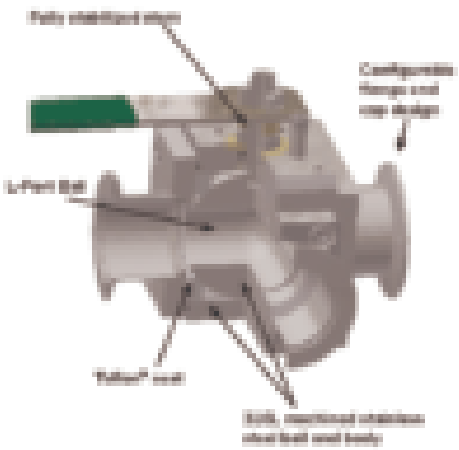
3-WAY HIGH VACUUM BALL VALVE

Description

ANCORP's 3-way ball valve is designed to divert flow from a single source to either of two outlet ports. The 3-way ball valve consists of a body, stem, L-port ball, and three end caps. Components are machined from corrosive resistant 316L stainless steel. Fluoroelastomers are used to seal the stem and end caps from atmosphere while PTFE Teflon® seats cold flow around the ball to isolate one outlet port while diverting flow through the other. Flow through the valve is diverted manually or pneumatically by 1/4 turn, quick actuation. During actuation, the PTFE Teflon® seats wipe across the ball. This feature reduces particulate build-up, making this valve robust in particle-rich effluent streams.

Applications

The corrosion resistant design of ANCORP's 3-way vacuum ball valves makes them ideal for diverting flow or isolating pumping lines, reactors, traps, and scrubbers on vacuum coating tools used for MOCVD, PVD, and other thin-film coating processes.



3-Way Difference

ANCORP's 3-way ball valve maximizes design efficiencies in high vacuum systems and coating tools when compared to multi-valve systems with equivalent functionality:

- Reduced bill of material
- Reduced footprint
- Reduced overall weight
- Reduced design complexity
- Fewer actuated components
- Fewer leak paths
- Less total area to heat
- Reduced maintenance costs from MRO parts

PATENTED EXTENDED LIFE (XL) DESIGN

- 10X longer cycle life
- Reduced wetted components
- Fully stabilized stem