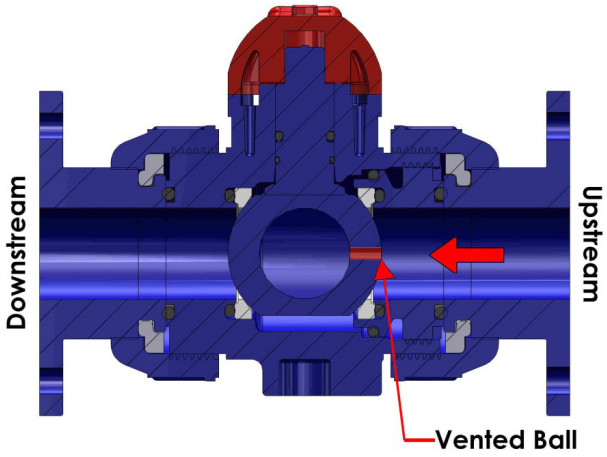
Type-21/21a Ball Valves for use with Sodium Hypochlorite



Specifications

Sizes: 1/2" – 4"
Models: PVC & CPVC: Socket, Threaded
Bodies: and Flanged (ANSI)
Seats: PVC, CPVC
Seals: PTFE backed with FKM
FKM

Sizes 1/2" - 4" PVC/FKM Models
NSF-61 Certified

The Type-21/21a ball valve can be factory equipped with a 1/8" vent hole for sodium hypochlorite applications.

When a ball valve is closed, fluid gets trapped in the cavity of the ball. If the valve is not frequently operated, this trapped fluid begins to age and break down. As sodium hypochlorite breaks down, it begins to off-gas. This can create pressure in the cavity of the ball, which can lead to valve failure and can be a safety hazard. By adding the vent hole, the fluid that would have been trapped is now maintained by the upstream process fluid when the valve is in the closed position. This modification provides for longer valve life and safer operation.

Standard Features

- PVC or CPVC construction valve
- FKM O-ring seals
- Flanged configuration eliminates all cemented joints
- Alternately, the valve can be equipped with Chem Proline® end connectors for use in Asahi/America's piping material of choice for sodium hypochlorite service – Consult sales or engineering to learn more about Chem Proline® piping systems
- Supported up to a 20% concentration of sodium hypochlorite

Sample Specification

All Type-21/21a ball valves for use with sodium hypochlorite up to 20% concentration, sizes ½" to 4", shall be either PVC or CPVC construction and of true union design with two-way blocking capability. All O-rings shall be FKM with PTFE seats. PTFE Seats shall have elastomeric backing cushions of FKM. The stem shall feature double O-ring seals and be of blowout-proof design. The addition of a 1/8" vent hole drilled and deburred by the manufacturer is required. The valve shall be installed with the vent hole on the upstream side of the system to keep the liquid in the cavity of the ball fluid. A flow directional arrow is affixed to the valve body to indicate flow. The valve handle shall double as the carrier removal and/or tightening tool. ISO-5211 mounting pad shall be integrally molded to valve body for actuation mounting. PVC shall conform to ASTM D1784 Cell Classification 12454A and CPVC shall conform to ASTM D1784 Cell Classification 23567A. The ball valves shall have a pressure rating of 230psi for sizes ½" to 3" and 150psi for 4" at 70º F. Type-21 ball valves must carry a two year guarantee, as manufactured by Asahi/America, Inc.