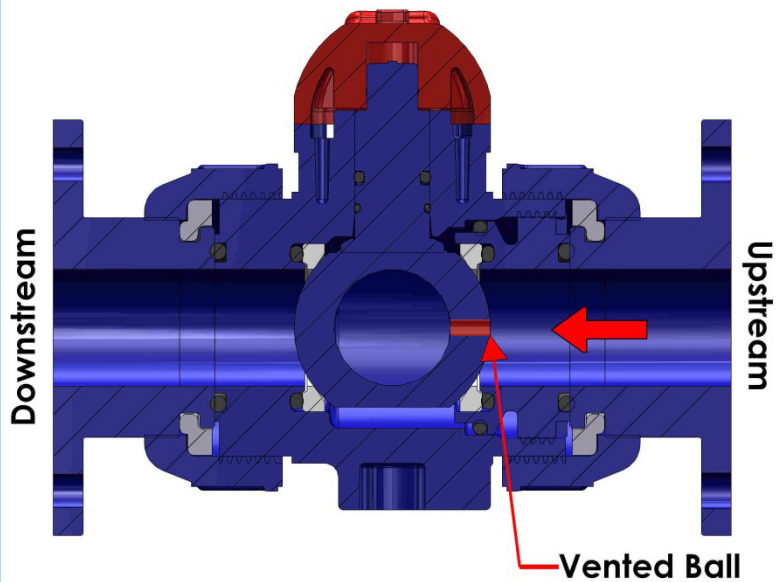


Type-21/21a Ball Valves for use with Sodium Hypochlorite



Specifications

Sizes:	1/2" – 6"
Models:	PVC & CPVC: Socket, Threaded and Flanged (ANSI)
Bodies:	PVC, CPVC
Seats:	PTFE backed with FKM
Seals:	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 1/2" 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. 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 12454-A and CPVC shall conform to ASTM D1784 Cell Classification 23567-A. The ball valves, shall have a pressure rating of 230psi for sizes 1/2" to 3" and 150psi for 4" at 70 degrees F. Type-21 Ball Valves must carry a two-year guarantee, as manufactured by Asahi/America Inc.



Type-14/15 Diaphragm Valves for use with Sodium Hypochlorite



The Type-14/15 Diaphragm Valves can be equipped with a 3-layer PTFE Diaphragm.

When a diaphragm valve is used in Sodium Hypochlorite service, PTFE is typically the diaphragm material of choice. The Type-14/15 PTFE diaphragm consists of 3 un-bonded layers. The primary or wetted layer is PTFE, the middle layer is a PVDF gas barrier, and the top cushion is EPDM. The PVDF gas barrier prevents the migration of gas which permeates the PTFE wetted layer. This added protection provides for longer valve life.

Standard Features

- PVC or CPVC construction valve
- 3-Layer PTFE/PVDF/EPDM Diaphragm
- Flanged configuration eliminates all cemented joints
- Alternately, the true-union 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



3-Layer Diaphragm

PTFE Diaphragm



PVDF Gas Barrier



EPDM Backing Cushion

Sample Specification

All Type-14/15 Diaphragm Valves for use with Sodium Hypochlorite up to 20% concentration shall be of solid thermoplastic construction (PVC or CPVC) for body and bonnet with molded flanged ends or true union ends. The molded flanged or Chem Proline® ends provide for no cemented joints. The valves shall come standard with a position indicator, travel stop (to prevent over-tightening) and bonnet O-ring sealing arrangement. The valve shall be weir type with a square bonnet body sealing design and bayonet connection diaphragm (1/2" ~ 2") or round bonnet body sealing design and threaded stud diaphragm connection (2-1/2" ~ 6"). All PTFE diaphragms shall accept the installation of a PVDF gas barrier between the layers of EPDM and PTFE. The PVDF gas barrier prevents against the migration of gas thru the PTFE membrane and attacking the EPDM backing cushion. All hardware shall be 304SS type and non-wetted. The face-to-face dimensions shall conform to Type G. PVC conforming to ASTM D1784 Cell Classification 12454-A, CPVC conforming to ASTM D1784 Cell Classification 23567-A and PVDF conforming to ASTM D3222 Cell Classification Type II. Valves shall be rated to 150 psi sizes 1/2" thru 4", 100psi size 5", & 700psi size 6" for PTFE diaphragms at 70 degrees F., as manufactured by Asahi/America, Inc.

