The Series BV2FH Two-Piece Stainless Steel Flange Ball Valve is designed to meet ANSI B16.34 flange standards and features ANSI 150# flanged ends for easy installation. The valve features a stem design providing additional protection against blow outs and RTFE seats and seals for extended life. An ISO 5211 mounting pad accepts direct mounting of pneumatic and electric actuators. All sizes allow for maximum flow rates with minimal pressure drops. The Series BV2FH body, ends, and ball have increased performance from the 316 SS construction.

OPERATIONS

Manual Operations-To open or close the valve, turn the handle 90° (1/4 turn). Valve in OPEN position: the handle is parallel (in line) with the valve pipeline. Valve in CLOSED position: the handle is perpendicular (crossed) with the valve or pipeline.

Automated Operation-Valves with actuators should be checked for stem alignment. Most applications are direct mount to the actuator, greatly reducing any sideload or increased torque. Make sure that all insert adapters are properly placed on the valve stem and fully engaged in the actuator.

INSTALLATION

General Information for On-Site Installation-The valve may be fitted in any position in the pipeline. For automated operation, W.E. Anderson recommends that the valve and actuator be installed vertically in case of valve leakage, although this is not necessary for proper operation of the valve. Prior to installation, inspect valve and pipe ends to make sure they are free from debris. Materials trapped inside the valve can cause damage to the seats and result in leakage. The flow may be in either direction of the valve. It is recommended to use expanded PTFE or rubber gasket on a flat-faced flange. Flange bolts should be used and evenly torqued using a torque wrench.

SPECIFICATIONS

Service: Compatible liquids and gases.
Line Size: 1/2 to 4”.
End Connection: 150# flange.
Pressure Limit: 275 psi (16 bar).
Wetted Materials:
Body and ends: CF8M;
Ball: 316 SS;
Seat: RTFE.
Temperature Limit:
450°F (232°C); 366°F (186°C) steam maximum.
Other Materials:
Belleville washer, lock washer, handle washer, handle nut, handle, and packing nut: 304 SS;
Thrust washer: 50% TFE and 50% SS powder;
O-ring: FKM;
Stem: ASTM;
Body seal: RTFE.

MAINTENANCE

This valve is designed for applications requiring ease of cleaning and maintenance.

To disassemble:
First, make sure the valve is isolated from both process media and pressure. Rotate the valve several times to relieve any pressure contained in the ball cavity. Then loosen the four bolts and separate the two pieces.

To re-assemble:
Tighten all bolts in a “star” pattern to ensure even compression. See Bolt Torques table for proper assembly bolt torque. Rotate the valve handle several times to check for free travel.

WARRANTY

The Series BV2FH warranties from defects in materials and workmanship are covered for (1) year from the date of purchase. In the unlikely event the valve should fail, the unit can be returned to the factory for warranty repair if the warranty period has not expired. Be sure to include a brief description of the problem plus any relevant application notes. Contact our customer service department for an RGA number and to set up the return.