

2 Way Ball Valve



Engineering
GREAT Solutions

**1/2" to 8" Carbon or
Stainless Steel Body**

Ball Valve

The IMI NH 3 piece 2 way ball valve is used in nuclear power plants. The robust design has proven itself as a workhorse isolation valve in some of the most demanding applications within nuclear reactors. The design provides long-lasting reliable service, faster maintenance and reduced downtime, which is ideal in such a demanding environment.

Key features

The Ball Valve was designed to be used in severe service applications found in nuclear power plants. The valves are capable of operating in the high radiation environments and provide reliable operation and sealing capabilities.

The valves are available as follows:

- > Size ½" to 8"
- > ANSI rating 150 to 1500
- > Stainless Steel and Carbon Steel bodies

- > Weld ends, threaded ends or flanged ends available
- > Peek, UHMWPE or Delrin seats
- > Blow-out proof stem, live loaded
- > ASME qualified
- > N and NPT Stamp Holder
- > Manual, pneumatic or electric actuation
- > All valves are 100% leak tested



Manual, pneumatic or electrically operated

Benefits

- > **Ball**
 - The ball is highly polished to provide tight shutoff. The floating ball design preloads the valve seat and the line pressure provides the force needed to create a bubble tight shut off at all pressures.
- > **Seat Materials**
 - The materials used are suitable for use in nuclear power plant applications and are resistant to radiation.
 - These materials provide a lower valve torque requiring smaller actuators and a better seal than a metal seated valve.
- > **3 piece design**
 - This design allows maintenance to be performed on the valve without removing it completely from the line.
 - The seats are easily removed from the valve body once the body nuts, body studs and connectors are removed, which reduces maintenance time.
 - Seats can be replaced without removing the ball and stem which further reduces the maintenance time.
- > **Leakage Testing**
 - All valves are tested at the factory to the valve rating limits: this ensures that each valve will meet the shut off rating before shipping.

Optional extras

- > Flanged ends
- > Electric actuators
- > Pneumatic actuators
- > Locking devices allowing valve to be locked in the open or closed position
- > Interlocking system to ensure correct sequencing of any number or combination of valves
- > Solenoids
- > Limit switches
- > Extension spindles
- > Manual overrides on pneumatic or electric actuators
- > Regulators, filters



Global operating experience

Product breakdown

Item	Description
1	Body
2	Body connector
3	Ball
4	Stem
5	Seat
6	Gland nut lock washer
7	Thrust bearing
8	Stem seal
9	Follower
10	Belleville washer
11	Gland nut
12	Body stud
13	Body nut
14	Tab washer
15	Handle
16	Handle sleeve
17	Internal tooth lock washer
18	Handle nut
19	Cavity filler insert

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