

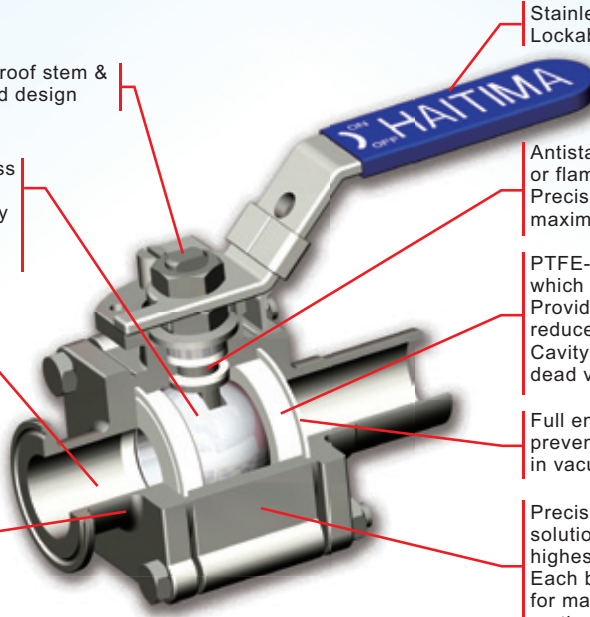


# HIGH PURITY BALL VALVE



## APPLICATIONS:

**Pharmaceutical, Bio-Tech, Semiconductor, Vacuum, Drinking Water.**



Blow-out proof stem & Live-loaded design

Precision Engineered solid 316L stainless steel ball with ID dimensions equal to tube ID, ensuring maximum flow capacity with minimum pressure drop across the valve.

Mechanical and Electropolished surface finishes as per ASME BPE Table SF-3 to suit specific customer requirements.

Clamp or Butt Weld ends to ASME BPE with sulphur controlled between 0.005 and 0.017%. Mechanical and Electropolished Interna surface available as per customer requirement.

Stainless Steel handle with Vinyl sleeve. Lockable in both open and closed position.

Antistatic Device available for volatile or flammable application. Precision fit bottom entry 316L stem for maximum operating safety.

PTFE-TFM seats - hygienic non slotted design which eliminates entrapment areas. Provides tight shutoff and low pressures, reduces wear and valve torque. Cavity filled seats available for reducing dead volume between the ball and the body.

Full encapsulated PTFE/TFM seal which prevent leakage to atmosphere or in vacuum service to internal media.

Precision cast stainless steel construction, solution annealed/normalised ensuring highest quality and added strength. Each body is etched with a heat number for material traceability. Purge ports available on the integral bosses for CIP or SIP applications.

## Body and Trim Materials

The valve body and ends are castings made from Stainless Steel conforming to ASTM A351 CF3M which improves the resistance to intergranular corrosion caused by welding. Welded end castings have low sulphur content of 0.005-0.017% and ferrite < 3%. The ball and stem are from Stainless Steel conforming to AISI 316L. These materials are offered for Biochemical, pharmaceutical, chemical and food machine equipment.

## Stem & Ball

All valves have blowout proof stems. And a highly polished solid ball ensures tight shutoff and long service life. The ball orifice matches the tube internal diameter to reduce product deposits being trapped in the line and minimize pressure drop. Its post leading edges are rounded to eliminate excessive wear of the seats.

## Seats

A flexible seat design provides tight shutoff at high and low pressures, reduces wear and valve torque. The seats are designed for low torque giving bubble tight shutoff and have no equalizing pressure slots or chamfers on the perimeter. Other seat designs available are Cavity Filler seats for reducing dead volume in the valve cavity.

## End Connections

All ends are one-piece castings and are machined on all wetted parts to high grade finish. The standard ends are tube end, hygienic clamp or extended tube end.

