

Islip Flow Control Inc. Ball valves are designed and manufactured to meet recognized industry standards in a wide variety of industries including chemical processing, petrochemical, oil and gas, pulp and paper among others. The valves are capable of handling a wide range of liquids, suspended solids and gases and offer the advantages associated with ball valves: quick, quarter turn operation, visual indication of the valve position, straight uninterrupted flow path and compact size and weight. IFC can offer ball valves in compliance with all of the following standards and specifications:

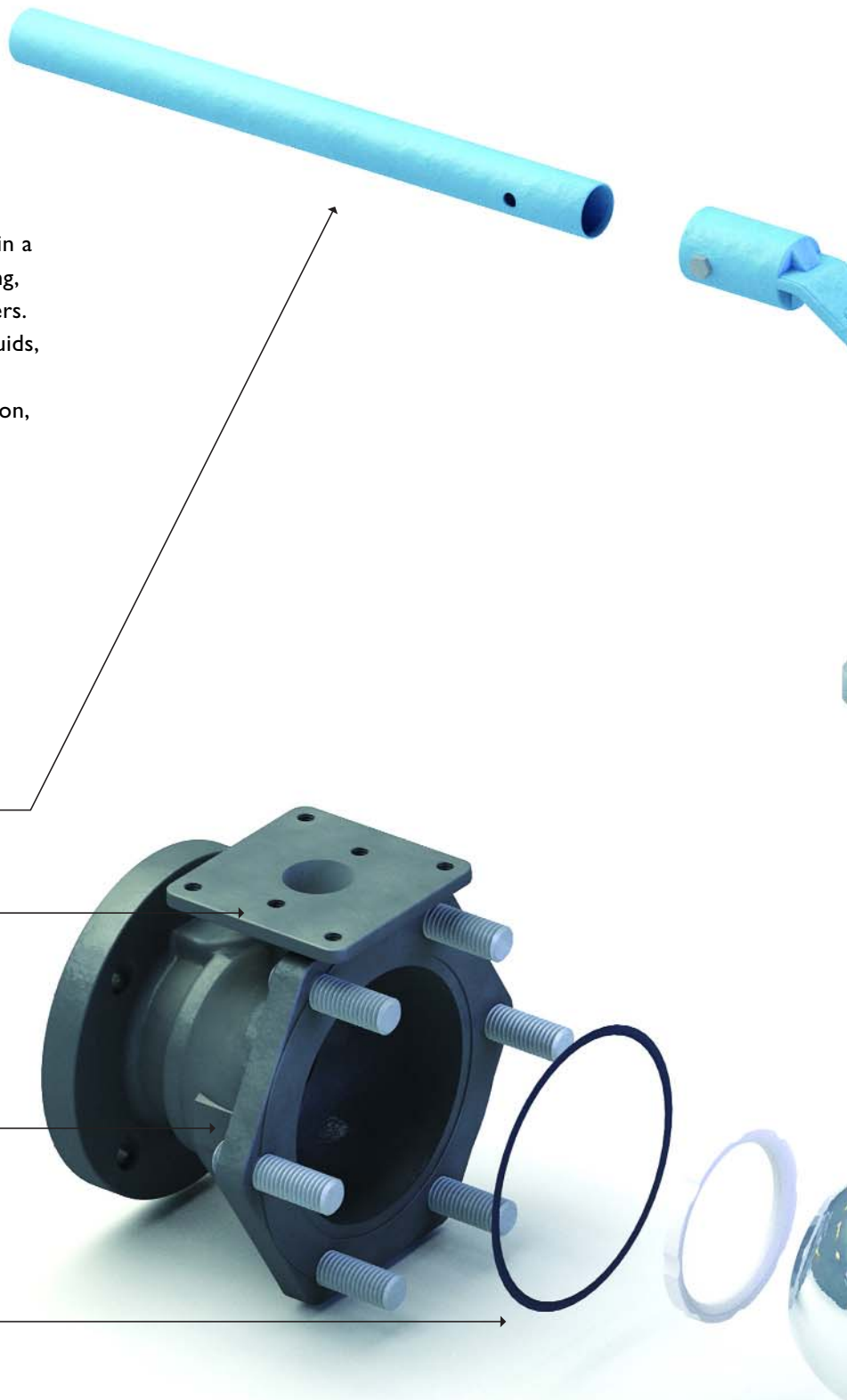
- ASME B16.34
- API 598 and API 607 4th Edition (Fire Safe)
- ASME SECTION VIII, Div. I
- NACE MR0175
- Canadian Registration Number (CRN)

ACTUATION: Valves are supplied with Levers, Oval Handles or Gear Operators.

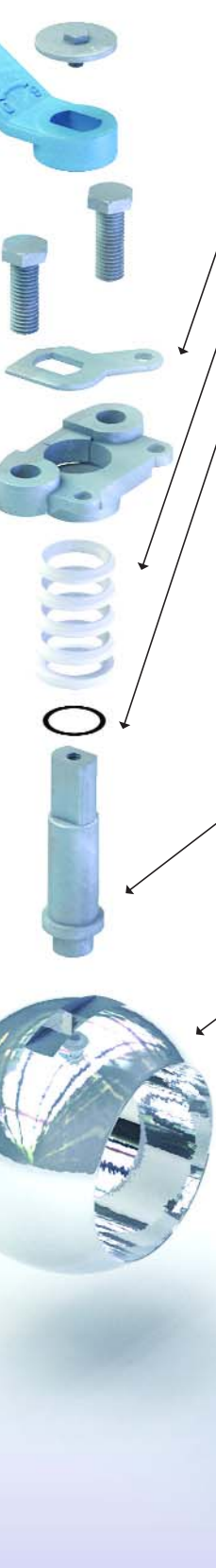
INTEGRAL MOUNTING PADS: are in accordance with ISO 5211 mounting dimensions for global conformity.

VALVE BODY: Materials of construction include Brass, Steel (WCB, LCB, LCC) and stainless steel (CF8M). Wall thickness and design meet the requirements of ASME B16.34 (see page 30) while certain models conform to the requirements of NACE MR-01-75. Body and end piece castings are marked with heat codes providing traceability to the Material Test Reports performed at the foundry.

BODY SEAL: Graphite or Teflon seals are used on all body connections to ensure positive sealing. Body joints are designed to withstand imposed pipe loads and meet strength requirements as outlined in the ASME Section VIII, Div. I design code.



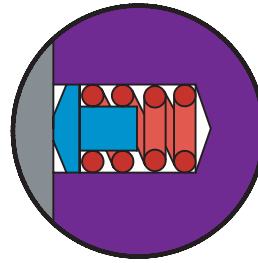
IFC FLOATING BALL VALVE DESIGN FEATURES



LOCKING DEVICES: are available on various models to prevent accidental or unwanted operation of the valve.

STEM PACKING: Available in PTFE, RTFE or Graphoil to meet customers operating conditions.

STEM SEALS: are available in PTFE, RTFE and Graphoil to provide a primary seal, reduce torque and prevent galling.

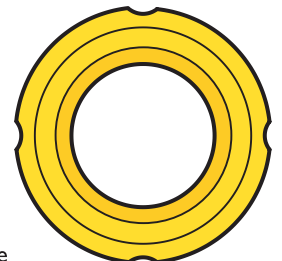


ANTI-STATIC DEVICE

POSITIVE STEM RETENTION: All Islip Flow Control Inc. Ball valves are equipped with a back-seated blow-out proof stem. As a safety measure the stem cannot be removed without disassembly of the valve. Where antistatic operation is required the valves are supplied with a stainless steel spring and plug arrangement between the stem, ball and valve body that permits electrical continuity between all valve components.

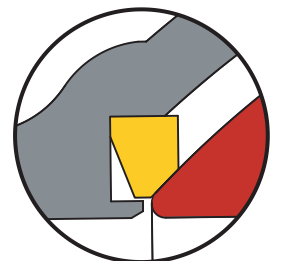
FLOATING BALL: IFC balls are precision machined and mirror finished for bubble-tight shut off. Ball edges have machined curvatures to reduce seat wear and provide a high cycle life. Certain models are equipped with a relief hole in the stem slot to prevent build-up of cavity pressure while the valve is in the closed position.

VALVE SEALING: IFC floating ball valves are designed to seal bidirectionally against resilient or polymeric seats. Valve seats are available in a wide choice of materials from RTFE and Polycarbon to materials suitable for high pressure operation such as Peek. When equipped with valve relief slots downstream sealing is assured while minimizing operating torque. During operation the ball is forced to the downstream side under pressure to effect and maintain a seal resulting in bubble-tight shut-off.



PRESSURE RELIEF SEAT

Certain valve models are certified and tested to meet API 607 / latest edition and ISO 10497 fire safe requirements. The secondary metal seats provide fire safety by retaining the softening downstream seat in the event of a fire while forming a metal-to-metal seal with the ball.



FIRE-TEST LIP