AVCO
Alloy Valves and Control

BALL VALVES 1500 SERIES

SPECIFICATION SHEET

THREE PIECE CRYOGENIC BALL VALVE

Construction

The main valve body is constructed of ASTM A351-CF8M (Stainless Steel 316) in three cast sections bolted together with encapsulated body bolts. The cryogenic bonnet is constructed of stainless steel 316 which is bolted to the main valve body and sealed with a gasket. The ball & stem are stainless steel 316. Other materials of construction (alloys) are available upon request for all components.

Design

- The valve body has three cast sections (body and two end caps).
- The three cast sections are bolted together and conform to ASME B16.34.
- The bonnet is an engineered single piece bolted to the valve body.
- Valves are available up to class 600 per ASME B16.34 or 2000 WOG
- The end to end dimensions conform to ASME B16.10 for flanged versions and to AVCO standards for all other styles.
- Butt weld ends conform to ASME B16.25.
- Flange ends conform to ASME B16.5.
- Threaded ends conform to ASME B1.20.1, B16.11 & B16.34 (BSP also available).
- Socket weld ends conform to ASME B16.11 & B16.34
- The ball is full port.
- The seats are encapsulated for greater durability.
- The valve is available for fire safe installations.
- The valve is designed for minimal pressure drop across the valve.
- The valve body has an integral mounting pad conforming to ISO 5211.
- The stem is bottom entry and has blow-out prevention.
- The stem has packing/sealing at two locations.
- The bonnet gasket is Flexitallic stainless steel 316 spiral wound with Flexicarb filler.
- The body gasket material is available in several materials to cover different media types.
- The seat material is available in several materials to cover different media types
- The stem assembly enables online adjustment of the packing.
- The packing material is 25% Carbon filled Teflon (CTFE) as standard.
- The valves are tested to API 598 and ASME B16.34.
- Valve sizes available are 1/4” thru 4”.

Operation

The following operators can be utilized on the valve:

- Chain wheel operator.
- Electric motor actuator.
- Hydraulic actuator.
- Manual (Lever handles etc.)
- Pneumatic actuator.
- Worm Gear operator.

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