



**GEKO Fluid Control GmbH**

**GEKO**  
CONTROL-VALVES

**Cryogenic Ball Valves  
Floating And Trunnion Mounted Design**



**Control&On-off Valve Manufacture  
Since 1956**



## Cryogenic ball valves floating and trunnion mounted: CRY

Floating and trunnion mounted ball valves, with extended bonnet materials and seals specifically engineered and tested to suit cryogenic applications

### FIRE SAFE TO API 607, BS 6755

1. Body gasket SS 316 and graphite (standard).
2. Ball seats on body edge.
3. Stem shoulder seats on body.



#### DESIGN FEATURES:

- Meets ASME B16.5, ASME B16.34, API 608, API 598.
- Face-to-face dimensions meet ASME B16.10 long pattern.
- Memory Seal seats compensate automatically for wear and fluctuations of pressure and temperature.
- Long cycle life.
- Low torques.
- Blowout-proof stem.
- Stem bearing reduces side thrust.
- Multiple solid PTFE or chevron type stem seal (adjustable).
- Live-loaded thrust washer prevents galling and provide secondary stem seal.
- Fully enclosed spiral wound graphite filled stainless body gasket.
- Air vent on all balls.

## FEATURES

### Blowout-Proof One-Piece Stem

GEKO's CRY line of cryogenic valves utilize a one-piece stem that engages the ball and is secured in the valve cavity with a large, threaded stem collar that is set-screwed for safety.



A retaining ring threads to the bottom of the stem, which resists from blowing out.



Once the retaining ring is threaded to the bottom of the stem, it is set-screwed in place to prevent rotation.



### Stem Seal Design

The valve's stem sealing capability is further enhanced by a welded bonnet design and V-ring packing that can be adjusted by a simple turn of the stem nut. The rings of the PTFE V-ring or graphoil packing, which sit on a shoulder machined on the stem. This allows the packing and stem to move as a unit during thermal cycles. In addition, the packing is live-loaded, retained by self compensating Belleville spring washers, and a packing adjustment nut. These features, coupled with close tolerance machining and finish of the packing bore, provide long stem seal life with reduced maintenance.

### Fire Tested and Certified to API 607

The design includes a fire lip in the innermost diameter of the endplate.



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APIQ1-6D



ATECX 94/9/EC



ISO 9001



97/23/EC/PED



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