

Cryogenic Ball Valve: LNG, –196 °C, Extended Bonnet

Cryogenic ball valves are used for isolation on LNG, liquid nitrogen, liquid oxygen and argon lines. An extended bonnet protects the packing from the cold, and unidirectional cavity relief prevents liquid trapped in the body cavity from vaporizing and building up pressure.

Technical specifications

Type	Floating (small sizes), trunnion mounted (large sizes)
Temperature	Down to –196 °C (–321 °F)
Design	Extended bonnet, unidirectional cavity relief, antistatic, fire-safe option
Materials	CF8M, CF3M, F316, F316L
End connections	RF flanged, butt-weld, socket-weld
Testing	Routine tests at ambient temperature; –196 °C helium test to BS 6364 / ISO 28921 as a type test or on request

Key features

- Extended bonnet keeps the packing from freezing
- Relief against cavity overpressure
- Helium leak test at –196 °C on request
- Cleaning suitable for oxygen service