

8. Cryogenic Ball Valves

8.1 Brief Description

Perar's experience in valve manufacturing: Top Entry, Split Body and Fully Welded, ranges from Manual, Motor Operated, Emergency Shut Down, Blow Down, Riser, Metal seated, Cryogenic, Sub-sea in both horizontal & vertical line. Materials supplied are in accordance with ASTM standard: Carbon Steel, Stainless Steel and Special alloys such as Super Duplex, 6Mo, Inconel, Incoloy, Titanium are nowadays common practice at Perar's works.

Perar has specialised in Low Temperature and Cryogenic service to the extreme temperature of minus 196 Deg C, in accordance to the most stringent specifications.

Perar Ball Valves in cryogenic service are supplied with extended bonnet with a sufficient gas column length (vapour space) to keep the stem seals exposed only to vapour to ensure functional integrity and not the cold liquid. Suitable seals are selected considering the customer's process indication. PTFE lip seal spring energised or KEL-F material are commonly used.

A large number of valves of different design, size and pressure have been tested at Perar's facilities at various temperatures with Helium/Nitrogen mixture. Certification and procedures are available, duly stamped by different Third Party Authorities.

Body Material F316, F44, F XM-19, or others, KEL-F, PTFE/Elgiloy, PTFE/AISI 302 or other seats and seal materials.

8.2 Technical Details:



Sizes:

From 1/2" up to 60"

Classes:

ANSI 150-300-600-900-1500-2500

API 2000-3000-5000-10000-15000

Materials:

Low Temperature Carbon Steel,
Stainless Steel

6" / 900# Top Entry Ball Valves