

# Microfinish Cryogenic Ball Valves

**Brand:** Microfinish



## Short Description

The Microfinish cryogenic valve line is available in trunnion mounted valve type up to 24 inch (DN 600) and floating ball type up to 10 inch (DN 250). The various configurations are available in reduced bore and full bore designs, and pressure classes from ASME 150 to 2500 (size dependent). The valve must function properly at temperatures as low as -269°C/-450°F and precise tolerances are set for those parts to be subjected to thermal shock and shrinkage. Furthermore, some cryogens such as LOX and LNG are flammable; so the valve must be designed to be fire safe as specified in API 607, API 6FA, and ISO 10497 standards.

## Description

Microfinish cleaning procedures for the cryogenic line is in full compliance with the following international standards and corporate specifications: CGA G-4.1, ASTM A380/A380M; EIGA 33.06; Linde standard LS 141-47 part 1 and 2; Linde standard LS 031-6X7; Praxair standard GS-38 and GS-40; and Reliance standard; and spec No.100080-1-SS-PP-004-Part IV App. B and E. Factory certification: • ISO 9001-2015 Quality management system Valve design and tests: • ANSI B16.34; ISO 17292; API 608; API 6D / ISO 14313 • BS 6364 Specification for valves for cryogenic service • ISO 28921-1 Industrial valves: isolating valves for low temperature applications (optional) • EN 12266-1; API 598 Testing of metallic valves • API 6FA; API 607; ISO 10497 Testing of valves to fire type-testing requirements • ISO 15848-1 measurement, test and qualification procedures for fugitive emissions • API 641 Type Testing of Quarter-turn Valves for Fugitive Emissions Microfinish introduced to the market a distinctive design of trunnion mounted ball valve for cryogenic service. The design is built as per BS6364 and API 6D, DIB-2 configuration. With the valve in its closed position, both upstream

and downstream seats work in tandem to block in-line leak. Cavity pressure build-up, due to thermal expansion, is released safely through the upstream SPE seat design. Microfinish's proven valve design can increase significantly the MTTF and MTBF of trunnion mounted valves in extreme cryogenic temperature conditions, and hence maximizes plant productivity and site safety.