



SUPREME ENTERPRISE

Industrial Valves

4th Floor, Survey No. 235/A and 247/A, E/401, Nr. Bhattha School, Gyaspur, Ahmedabad, Gujarat 382405, India | Branch: Mehta House, Relief Road, Ahmedabad 380001
GST 24AFAFS5839J1ZQ • IEC AFAFS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

Doc. No.	SV-DATA-2026-CRYOGENIC BALL VALVE LNG CLASS 150	Cryogenic Ball Valve LNG Class 150 -- Technical Datasheet	Page	1 OF 1
Rev.	A		Date	13-Jun-2026

R	REFERENCES & RELATED DOCUMENTS			
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet
R2	Project Standard / Spec.	BS 6364, API 6D, API 607, ISO 17324		
1	GENERAL			
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required
4	Design Standard	BS 6364, API 6D, API 607, ISO 17324	Pressure Class / Rating	Class 150
5	Valve Size, Inlet x Outlet	1/2" to 12" (DN15–DN300)	End Connection	Flanged RF, ASME B16.5 / Butt Weld ASME B16.25
6	Valve Type / Model	Cryogenic Ball Valve LNG Class 150	Operation Mode	Extended bonnet/stem, lever or gear operated, fire-safe design option per API 607 -- rated -196°C to +80°C for LNG/LPG service
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation	Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS			
8	Design Pressure	Class 150	Design Temp. Min / Max	-196°C to +80°C (cryogenic) -- per project
9	Operating Pressure	Class 150	Operating Temp.	-196°C to +45°C -- project-specific
10	Set / Relief Pressure	N/A -- Product Datasheet	Back Pressure	N/A -- Product Datasheet
11	Fluid Handled / Service	Oil & Gas, Petrochemical, Water Treatment, Power Generation	Corrosion Allowance	As per project specification
12	Required Capacity / Flow Rate	As per valve size and pressure class	Location / Installation	Indoor / Outdoor / Offshore / Marine (as applicable)
13	VALVE OPERATION REQUIREMENT			
14	Type of Valve Operator	Extended bonnet/stem, lever or gear operated, fire-safe design option per API 607 -- rated -196°C to +80°C for LNG/LPG service	Actuator Specification	ISO 5211 pad (actuated) -- Electric / Pneumatic / Hydraulic on request
15	Fail-Safe Position	As per project / application requirements	Accessories Required	Limit switches, positioners, solenoid valves, manual override -- on request
16	VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)			
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)	
	Body	As per project specification	ASTM A351 LCC (Cast Low-Temp Carbon Steel) / A351 CF8M	
	Bonnet / Cover	As per standard	Extended SS316 cryogenic bonnet to isolate stem packing from cryogenic fluid	
	Trim (Disc / Seat)	As per standard	SS316 / A182 F316 / RPTFE / PCTFE with lip seal for cryogenic sealing	
	Stem / Spindle	As per standard	As per standard	
	Gasket / Packing	As per standard	Graphite + PTFE, low-temperature rated	
	Bolting / Nuts	As per standard	A320 L7 (cryogenic-rated)	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS			
18	Hydrostatic Shell Test	Hydrostatic 3.1 MPa (450 psi)	Seat / Pneumatic Test	Hydrostatic 2.2 MPa (320 psi)
19	NDT Requirements	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request		
20	Required Certificates / MTC	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request		
21	Witness / Inspection Agency	Client / TPI representative (if specified)	Third Party Inspection	TUV / SGS / BV / Lloyds Register (client cost)
22	PAINTING, PRESERVATION & PACKING			
23	Painting / Coating Specification	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request		
24	Packing Requirement	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request		

26	NOTES			
	1. This datasheet covers standard specifications for Cryogenic Ball Valve LNG Class 150.			

2. Design Standard: BS 6364, API 6D, API 607, ISO 17324.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 1/2" to 12" (DN15–DN300). Pressure Rating: Class 150.
5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.
6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.
7. Testing performed per ISO 5208 / API 598: shell test at 1.5x rated pressure, seat test at 1.1x rated pressure -- bubble-tight zero leakage.
8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.
9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.
10. Alternative / upgraded materials: A352 LCB / LCC and SS304 trims available on request.
11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.
12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.
13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.
14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.

RH REVISION HISTORY			
Rev.	Date	Description of Change	Prepared / Reviewed / Approved
A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department
AP DOCUMENT APPROVAL			
	PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad _____ Signature / Date	REVIEWED BY _____ Name / Signature / Date	APPROVED BY _____ Name / Signature / Date