



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-CRYOGENIC_BALL_VALVE_LNG_LPG_SERVICE			Cryogenic Ball Valve LNG/LPG Service -- 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	ASME Class 150 / 300 / 600		
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	ASME Class 150 / 300 / 600		
5	Valve Size, Inlet x Outlet	1/2" to 24" (DN15 – DN600)	End Connection	Flanged RF per ASME B16.5 / Butt Weld per ASME B16.25		
6	Valve Type / Model	Cryogenic Ball Valve LNG/LPG Service	Operation Mode	Extended-bonnet floating or trunnion ball, lever / gear / actuator operated -- rated -196°C to +80°C for LNG, LPG, ethylene, and air-separation service; cryogenic-tested per BS 6364		
6A	Service / Application	LNG Terminals, LPG Storage, Cryogenic Gas Plants, Air Separation	Fluid State	Liquid / Gas / Steam (as applicable)		
7	DESIGN CONDITIONS					
8	Design Pressure	ASME Class 150 / 300 / 600	Design Temp. Min / Max	-196°C to +80°C (cryogenic) -- per project		
9	Operating Pressure	ASME Class 150 / 300 / 600	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	LNG Terminals, LPG Storage, Cryogenic Gas Plants, Air Separation	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 floating or trunnion ball, lever / gear / actuator operated -- rated -196°C to +80°C for LNG, LPG, ethylene, and air-separation service; cryogenic-tested per BS 6364	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 CF8M / CF3M (SS316/316L) / A350 LF2			
	Bonnet / Cover	As per standard	Extended SS316 cryogenic bonnet (vapour column isolates packing)			
	Trim (Disc / Seat)	As per standard	SS316 / A182 F316, anti-static / RPTFE / PCTFE / Devlon with cryogenic lip seal			
	Stem / Spindle	As per standard	As per standard			
	Gasket / Packing	As per standard	Graphite + PTFE, low-temperature rated			
	Bolting / Nuts	As per standard	ASTM A320 L7 (cryogenic-rated)			
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS					
18	Hydrostatic Shell Test	Hydrostatic 15.3 MPa (2225 psi)	Seat / Pneumatic Test	Hydrostatic 11.2 MPa (1630 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/LPG Service.
2. Design Standard: BS 6364, API 6D, API 607, ISO 17324.
3. Application / Service: LNG Terminals, LPG Storage, Cryogenic Gas Plants, Air Separation.
4. Size Range: 1/2" to 24" (DN15 – DN600). Pressure Rating: ASME Class 150 / 300 / 600.
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: Class 150 / 300 / 600; fire-safe option; cryogenic shell test to -196°C 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			
<p style="text-align: center;">PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad</p> <p>_____</p> <p style="text-align: center;">Signature / Date</p>		<p style="text-align: center;">REVIEWED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	
		<p style="text-align: center;">APPROVED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	