



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-TITANIUM_GR2_BALL_VALVE_CLASS_150			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Titanium Grade 2 Ball Valve Class 150 -- Technical Datasheet					
R	REFERENCES & RELATED DOCUMENTS				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	ASME B16.34, BS 5351, API 607, API 598			
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	ASME B16.34, BS 5351, API 607, API 598		Pressure Class / Rating	Class 150
5	Valve Size, Inlet x Outlet	1/2" to 8" (DN15 – DN200)		End Connection	Flanged RF per ASME B16.5
6	Valve Type / Model	Titanium Grade 2 Ball Valve Class 150		Operation Mode	Lightweight Titanium Grade 2 floating ball -- immune to wet chlorine, hypochlorite, and chloride-rich seawater that attack stainless and nickel alloys; ideal for bleaching and oxidizer service
6A	Service / Application	Wet Chlorine, Hypochlorite, Strong Oxidizers, Chloride Seawater		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	Class 150		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	Class 150		Operating Temp.	Ambient to +200°C (standard) -- project-specific on request
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	N/A -- Product Datasheet
11	Fluid Handled / Service	Wet Chlorine, Hypochlorite, Strong Oxidizers, Chloride Seawater		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	Lightweight Titanium Grade 2 floating ball -- immune to wet chlorine, hypochlorite, and chloride-rich seawater that attack stainless and nickel alloys; ideal for bleaching and oxidizer 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		Titanium Grade 2 (UNS R50400) -- ASTM B367 C-2 (cast) / B348 Gr.2 (wrought)	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Titanium Gr.2 (R50400) / PTFE / RPTFE / PEEK	
	Stem / Spindle	As per standard		Titanium Gr.2 / Gr.5, blowout-proof	
	Gasket / Packing	As per standard		PTFE	
	Bolting / Nuts	As per standard		Titanium / B8M	
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 Titanium Grade 2 Ball Valve Class 150.
2. Design Standard: ASME B16.34, BS 5351, API 607, API 598.
3. Application / Service: Wet Chlorine, Hypochlorite, Strong Oxidizers, Chloride Seawater.
4. Size Range: 1/2" to 8" (DN15 – DN200). 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: Titanium Gr.5 (6Al-4V) high-strength stem and Gr.7 (Pd-stabilized) bodies 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>