



# 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 24AFAFSS5839J1ZQ • IEC AFAFSS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

Doc. No.	SV-DATA-2026-TRUNNION_MOUNTED_BALL_VALVE_CLASS_150_2500			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>Trunnion Mounted Ball Valve Class 150-2500 -- Technical Datasheet</b>					
<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	API 6D, ASME B16.34, API 607, NACE MR0175			
<b>1</b>	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 150 to Class 2500	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 6D, ASME B16.34, API 607, NACE MR0175	Pressure Class / Rating	ASME Class 150 to Class 2500	
5	Valve Size, Inlet x Outlet	2" to 56" (DN50 – DN1400)	End Connection	Flanged RF / RTJ per ASME B16.5 / Butt Weld per ASME B16.25	
6	Valve Type / Model	Trunnion Mounted Ball Valve Class 150-2500	Operation Mode	Trunnion-mounted ball with Double Block & Bleed and self-relieving seats -- gear or actuator operated across the full Class 150–2500 pressure range; API 607 fire-safe	
6A	Service / Application	Oil & Gas Pipelines, Gas Distribution, Petrochemical, Refineries	Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	ASME Class 150 to Class 2500	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 150 to Class 2500	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	Oil & Gas Pipelines, Gas Distribution, Petrochemical, Refineries	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)	
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Trunnion-mounted ball with Double Block & Bleed and self-relieving seats -- gear or actuator operated across the full Class 150–2500 pressure range; API 607 fire-safe	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	
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)		
	Body	As per project specification	ASTM A105N / A350 LF2 / A216 WCB / A182 F316 (forged or cast)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	ASTM A182 F6a (13Cr) / SS316 / SS316L, hard chrome plated / Self-relieving DPE seats, RPTFE / Devlon V / PEEK / metal-seated		
	Stem / Spindle	As per standard	ASTM A182 F6a / SS316, blowout-proof, anti-static		
	Gasket / Packing	As per standard	Viton AED / Graphoil (fire-safe API 607)		
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H (B7M / B8M for sour service)		
	Trunnion Bearings	As per standard	SS316 / PEEK with PTFE thrust washers		
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 63.8 MPa (9255 psi)	Seat / Pneumatic Test	Hydrostatic 46.8 MPa (6790 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)	
<b>22</b>	<b>PAINTING, PRESERVATION &amp; PACKING</b>				
23	Painting / Coating Specification	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request			

<b>24</b>	<b>Packing Requirement</b>	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request
<b>26</b>	<b>NOTES</b>	
<ol style="list-style-type: none"> <li>1. This datasheet covers standard specifications for Trunnion Mounted Ball Valve Class 150-2500.</li> <li>2. Design Standard: API 6D, ASME B16.34, API 607, NACE MR0175.</li> <li>3. Application / Service: Oil &amp; Gas Pipelines, Gas Distribution, Petrochemical, Refineries.</li> <li>4. Size Range: 2" to 56" (DN50 – DN1400). Pressure Rating: ASME Class 150 to Class 2500.</li> <li>5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.</li> <li>6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</li> <li>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.</li> <li>8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.</li> <li>9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</li> <li>10. Alternative / upgraded materials: Full Class 150 / 300 / 600 / 900 / 1500 / 2500 range; Duplex, Inconel, and sour-service trims on request.</li> <li>11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</li> <li>12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</li> <li>13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</li> <li>14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</li> </ol>		

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		
	<b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad  _____ Signature / Date	<b>REVIEWED BY</b>  _____ Name / Signature / Date	<b>APPROVED BY</b>  _____ Name / Signature / Date