



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-API_6D_TRUNNION_BALL_VALVE_CLASS_1500			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
API 6D Trunnion Mounted Ball Valve Class 1500 -- 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.	API 6D, ASME B16.34, API 607, NACE MR0175			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 1500	
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 1500	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50 – DN600)	End Connection	Flanged RTJ per ASME B16.5 / Butt Weld per ASME B16.25	
6	Valve Type / Model	API 6D Trunnion Mounted Ball Valve Class 1500	Operation Mode	Trunnion-mounted full-bore ball, gear / pneumatic / electric / hydraulic actuated -- self-relieving DPE seats, API 607 fire-safe, piggable bore for high-pressure pipeline isolation	
6A	Service / Application	Oil & Gas Pipelines, Wellhead, Petrochemical, Refineries	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 1500	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 1500	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, Wellhead, 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)	
13	VALVE OPERATION REQUIREMENT				
14	Type of Valve Operator	Trunnion-mounted full-bore ball, gear / pneumatic / electric / hydraulic actuated -- self-relieving DPE seats, API 607 fire-safe, piggable bore for high-pressure pipeline isolation	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 A105N / A350 LF2 (Forged Carbon Steel) / A216 WCB		
	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		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 38.2 MPa (5550 psi)	Seat / Pneumatic Test	Hydrostatic 27.9 MPa (4075 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 API 6D Trunnion Mounted Ball Valve Class 1500.
2. Design Standard: API 6D, ASME B16.34, API 607, NACE MR0175.
3. Application / Service: Oil & Gas Pipelines, Wellhead, Petrochemical, Refineries.
4. Size Range: 2" to 24" (DN50 – DN600). Pressure Rating: ASME Class 1500.
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: SS316L, A182 F316, Duplex 2205 trims; NACE MR0175 sour service; SIL 2 / PED 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	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date