



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-BALL_VALVE_2_INCH_CLASS_600_WCB_SS316_TRIM			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Ball Valve 2 Inch Class 600 WCB SS316 Trim -- 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 / API 608, ASME B16.34, API 607, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 600	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 6D / API 608, ASME B16.34, API 607, API 598		Pressure Class / Rating	
5	Valve Size, Inlet x Outlet	2" (DN50)	End Connection	Flanged RF per ASME B16.5	
6	Valve Type / Model	Ball Valve 2 Inch Class 600 WCB SS316 Trim	Operation Mode	2" Class 600 floating ball valve with SS316 trim -- lever or gear operated, API 607 fire-safe isolation for hydrocarbon and process service	
6A	Service / Application	Oil & Gas, Petrochemical, Refineries, Process Isolation	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 600	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 600	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, Petrochemical, Refineries, Process Isolation	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	2" Class 600 floating ball valve with SS316 trim -- lever or gear operated, API 607 fire-safe isolation for hydrocarbon and process 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 A216 WCB (Carbon Steel)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	SS316 / A182 F316, hard chrome option / RPTFE / PEEK / Devlon (fire-safe secondary metal seat)		
	Stem / Spindle	As per standard	ASTM A182 F316, blowout-proof, anti-static		
	Gasket / Packing	As per standard	Graphite + PTFE (fire-safe API 607)		
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H		
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 Ball Valve 2 Inch Class 600 WCB SS316 Trim.
2. Design Standard: API 6D / API 608, ASME B16.34, API 607, API 598.
3. Application / Service: Oil & Gas, Petrochemical, Refineries, Process Isolation.
4. Size Range: 2" (DN50). Pressure Rating: ASME Class 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: Full A351 CF8M body, NACE MR0175 trim, and trunnion design 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