



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-FORGED_STEEL_BALL_VALVE_CLASS_800_1500			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Forged Steel Ball Valve Class 800/1500 -- 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 608 / API 6D, ASME B16.34, API 607, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 800 / 1500	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 608 / API 6D, ASME B16.34, API 607, API 598		Pressure Class / Rating	ASME Class 800 / 1500
5	Valve Size, Inlet x Outlet	1/2" to 2" (DN15 – DN50)	End Connection	Socket Weld / NPT Threaded / Flanged per API 602	
6	Valve Type / Model	Forged Steel Ball Valve Class 800/1500	Operation Mode	Compact forged floating/trunnion ball valve in Class 800/1500 -- lever operated, API 607 fire-safe, for high-pressure instrument, sampling, and small-bore process isolation	
6A	Service / Application	Oil & Gas, Refineries, Instrument & Sampling, High Pressure Process	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 800 / 1500	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	ASME Class 800 / 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, Refineries, Instrument & Sampling, High Pressure Process	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	Compact forged floating/trunnion ball valve in Class 800/1500 -- lever operated, API 607 fire-safe, for high-pressure instrument, sampling, and small-bore process 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 (Forged Carbon Steel)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	A182 F316 / hard chrome plated / RPTFE / PEEK / Devlon (metal-seated option)		
	Stem / Spindle	As per standard	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 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 Forged Steel Ball Valve Class 800/1500.
2. Design Standard: API 608 / API 6D, ASME B16.34, API 607, API 598.
3. Application / Service: Oil & Gas, Refineries, Instrument & Sampling, High Pressure Process.
4. Size Range: 1/2" to 2" (DN15 – DN50). Pressure Rating: ASME Class 800 / 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: A182 F316, A350 LF2 (low temp), Duplex trims; NACE MR0175 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