



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-DOUBLE_BLOCK_BLEED_DBB_BALL_VALVE			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
API 6D Double Block and Bleed (DBB) Ball Valve (Class 150-2500, SS316) -- 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, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	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, API 598		Pressure Class / Rating	Class 150 to Class 2500
5	Valve Size, Inlet x Outlet	1/2" to 12" (DN15 – DN300)		End Connection	Flanged RF/RTJ per ASME B16.5 or NPT Threaded
6	Valve Type / Model	API 6D Double Block and Bleed (DBB) Ball Valve (Class 150-2500, SS316)		Operation Mode	Two independent balls with central needle bleed replace traditional multi-valve hookups -- absolute dual isolation with safe venting cavity, API 607 fire-safe
6A	Service / Application	Oil & Gas, Instrumentation Hookups, Metering Skids, Pipeline Isolation		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	Class 150 to Class 2500		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	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, Instrumentation Hookups, Metering Skids, Pipeline 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	Two independent balls with central needle bleed replace traditional multi-valve hookups -- absolute dual isolation with safe venting cavity, 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
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 / A182 F316 (SS316)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	ASTM A182 F316 / Duplex Steel (Hard Chrome Plated) / Devlon / PTFE / Carbon-Filled PEEK		
	Stem / Spindle	As per standard	Stainless Steel 316 (ASTM A276)		
	Gasket / Packing	As per standard	Secondary Graphite (API 607)		
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H		
	Stem	As per standard	Blowout-proof, anti-static, A182 F316		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Double Block & Bleed shell test per API 6D / API 598		Seat / Pneumatic Test	Independent upstream & downstream bubble-tight seat test per API 6D
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 Double Block and Bleed (DBB) Ball Valve (Class 150-2500, SS316).
2. Design Standard: API 6D, ASME B16.34, API 607, API 598.
3. Application / Service: Oil & Gas, Instrumentation Hookups, Metering Skids, Pipeline Isolation.
4. Size Range: 1/2" to 12" (DN15 – DN300). Pressure Rating: Class 150 to Class 2500.
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: NACE MR0175 / ISO 15156 sour-service trims and Inconel/Monel options 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