



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-CS_BALL_VALVE_3PC_SCREW_END			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
C.S. Ball Valves Screw End (Three Piece Design) -- 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.	BS 5351 / API 598 / BS 5146			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150; Max 180°C	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	BS 5351 / API 598 / BS 5146		Pressure Class / Rating	Class 150; Max 180°C
5	Valve Size, Inlet x Outlet	1/4" to 4" (DN8 – DN100)		End Connection	Screwed BSP / NPT or Socket Weld
6	Valve Type / Model	C.S. Ball Valves Screw End (Three Piece Design)		Operation Mode	Three-piece swing-out body allows in-line maintenance and seat replacement without removing the valve from the pipeline -- lever operated for water, oil, air, and gas
6A	Service / Application	Water, Oil, Air & Gas, General Industrial Process		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	Class 150; Max 180°C		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	Class 150; Max 180°C		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	Water, Oil, Air & Gas, General Industrial 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	Three-piece swing-out body allows in-line maintenance and seat replacement without removing the valve from the pipeline -- lever operated for water, oil, air, and gas		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		Carbon Steel (ASTM A216 WCB / A105)	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		SS304 / SS316 (hard chrome option) / PTFE / RPTFE	
	Stem / Spindle	As per standard		SS304 / SS316, blowout-proof	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		Alloy / SS304	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 425 PSI (29.3 bar)		Seat / Pneumatic Test	Hydrostatic 300 PSI (20.7 bar); Air 80 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 C.S. Ball Valves Screw End (Three Piece Design).
2. Design Standard: BS 5351 / API 598 / BS 5146.
3. Application / Service: Water, Oil, Air & Gas, General Industrial Process.
4. Size Range: 1/4" to 4" (DN8 – DN100). Pressure Rating: Class 150; Max 180°C.
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: Stainless steel body, fire-safe, and locking-lever variants available 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