



# 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-AWWA_C504_BUTTERFLY_VALVE_RUBBER_SEAT			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>AWWA C504 Butterfly Valve Resilient Seat -- Technical Datasheet</b>					
<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	AWWA C504, AWWA C504 flange dimensions			
1	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	AWWA Pressure Class 150B / 250B	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	AWWA C504, AWWA C504 flange dimensions		Pressure Class / Rating	AWWA Pressure Class 150B / 250B
5	Valve Size, Inlet x Outlet	3" to 144" (DN80--DN3600)		End Connection	Flanged (ASME B16.1 / AWWA C504) or Mechanical Joint
6	Valve Type / Model	AWWA C504 Butterfly Valve Resilient Seat		Operation Mode	Worm-gear operator (handwheel, buried bevel-gear, or chainwheel) with EPDM/NBR seat -- for large-diameter water transmission mains
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation		Fluid State	Liquid / Gas / Steam (as applicable)
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	AWWA Pressure Class 150B / 250B		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	AWWA Pressure Class 150B / 250B		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, Water Treatment, Power Generation		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	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Worm-gear operator (handwheel, buried bevel-gear, or chainwheel) with EPDM/NBR seat -- for large-diameter water transmission mains		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	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material	Proposed Material (Supreme Valves India)		
	Body	As per project specification		Cast Iron ASTM A126 Class B / Ductile Iron ASTM A536	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Ductile Iron A536 with Nickel or 316 SS edge / EPDM or NBR resilient seat, field-replaceable	
	Stem / Spindle	As per standard		SS304 / SS316, through-shaft design	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		Hot-dip galvanized / SS316 on request	
	Bearings	As per standard		Self-lubricating PTFE / bronze sleeve	
17	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 3.1 MPa (450 psi)		Seat / Pneumatic Test	Hydrostatic 2.2 MPa (320 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	<b>PAINTING, PRESERVATION &amp; PACKING</b>				
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	<b>NOTES</b>				

1. This datasheet covers standard specifications for AWWA C504 Butterfly Valve Resilient Seat.
2. Design Standard: AWWA C504, AWWA C504 flange dimensions.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 3" to 144" (DN80–DN3600). Pressure Rating: AWWA Pressure Class 150B / 250B.
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: CF8M (SS316) and Aluminium Bronze disc options 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			
<p style="text-align: center;"><b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad</p> <p>_____</p> <p style="text-align: center;">Signature / Date</p>		<p style="text-align: center;"><b>REVIEWED BY</b></p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	<p style="text-align: center;"><b>APPROVED BY</b></p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>