



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-MARINE_OFFSHORE_BUTTERFLY_VALVE			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Marine & Offshore Resilient Lined Butterfly Valve (DIN/JIS Flanged, Viton) -- 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.	EN 593 / API 609, API 598, ISO 5208			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	PN10 / PN16 (DIN) or JIS 10K / 16K	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	EN 593 / API 609, API 598, ISO 5208		Pressure Class / Rating	PN10 / PN16 (DIN) or JIS 10K / 16K
5	Valve Size, Inlet x Outlet	DN50 to DN500 (2" to 20")		End Connection	Wafer / Lugged, DIN PN10/PN16 or JIS 10K/16K drilling
6	Valve Type / Model	Marine & Offshore Resilient Lined Butterfly Valve (DIN/JIS Flanged, Viton)		Operation Mode	Resilient-lined concentric butterfly valve for seawater ballast, fuel/base oils, mud discharge, and freshwater -- Viton-lined models incorporate fire-safe structural barriers; lever or gear operated
6A	Service / Application	Seawater Ballast, Marine & Offshore, Drilling Rigs, Bilge & Freshwater		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	PN10 / PN16 (DIN) or JIS 10K / 16K		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	PN10 / PN16 (DIN) or JIS 10K / 16K		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	Seawater Ballast, Marine & Offshore, Drilling Rigs, Bilge & Freshwater		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	Resilient-lined concentric butterfly valve for seawater ballast, fuel/base oils, mud discharge, and freshwater -- Viton-lined models incorporate fire-safe structural barriers; lever or gear operated		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		Ductile Iron GGG40 / Cast Iron GG25	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Stainless Steel 304 / 316 (Hardened / Polished outer edge) / High-Grade Viton (FKM) / Resilient EPDM Rubber	
	Stem / Spindle	As per standard		Stainless Steel 316 / Duplex Steel	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H	
	Operator	As per standard		Hand Lever (≤DN80) or Worm Gear Operator	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 2.4 MPa (24 bar) -- 1.5x PN16		Seat / Pneumatic Test	Hydrostatic 1.76 MPa (17.6 bar) -- 1.1x PN16
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 Marine & Offshore Resilient Lined Butterfly Valve (DIN/JIS Flanged, Viton).
2. Design Standard: EN 593 / API 609, API 598, ISO 5208.
3. Application / Service: Seawater Ballast, Marine & Offshore, Drilling Rigs, Bilge & Freshwater.
4. Size Range: DN50 to DN500 (2" to 20"). Pressure Rating: PN10 / PN16 (DIN) or JIS 10K / 16K.
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: Aluminium Bronze and NAB discs for severe seawater; class-society type approval 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	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date