



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 24AFAFSS5839J1ZQ • IEC AFAFSS5839J • info@supremevalves.in | www.supremevalves.in • +91 97732 78770

Doc. No.	SV-DATA-2026-NAB_DISC_BUTTERFLY_VALVE_API_609_FOR_SEAWATER			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
NAB Disc Butterfly Valve – API 609 for Seawater -- 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 609, EN 593, ASME B16.5, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / PN16	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 609, EN 593, ASME B16.5, API 598	Pressure Class / Rating	Class 150 / PN16	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50 – DN600)	End Connection	Wafer / Lug Type, ASME B16.5 / PN16 drilling	
6	Valve Type / Model	NAB Disc Butterfly Valve – API 609 for Seawater	Operation Mode	Concentric resilient-seated butterfly valve with Nickel Aluminium Bronze disc -- lever or gear operated isolation and regulation of seawater cooling, intake, and ballast lines	
6A	Service / Application	Seawater Cooling, Desalination Intake, Offshore Ballast, Marine Firewater	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	Class 150 / PN16	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150 / PN16	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 Cooling, Desalination Intake, Offshore Ballast, Marine Firewater	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	Concentric resilient-seated butterfly valve with Nickel Aluminium Bronze disc -- lever or gear operated isolation and regulation of seawater cooling, intake, and ballast lines	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 (rubber-lined) / Full NAB C95800		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	Nickel Aluminium Bronze C95800 (seawater grade) / EPDM / Nitrile (NBR) resilient seawater seat		
	Stem / Spindle	As per standard	SS316 / Duplex / Monel		
	Gasket / Packing	As per standard	Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard	Super Duplex / Monel		
	Bearings	As per standard	Self-lubricating PTFE		
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
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26	NOTES
<ol style="list-style-type: none"> 1. This datasheet covers standard specifications for NAB Disc Butterfly Valve – API 609 for Seawater. 2. Design Standard: API 609, EN 593, ASME B16.5, API 598. 3. Application / Service: Seawater Cooling, Desalination Intake, Offshore Ballast, Marine Firewater. 4. Size Range: 2" to 24" (DN50 – DN600). Pressure Rating: Class 150 / PN16. 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: Full NAB body for severe seawater erosion service 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
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue
			Prepared / Reviewed / Approved
			Supreme Valves India -- Technical Department

AP	DOCUMENT APPROVAL		
	PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad	REVIEWED BY	APPROVED BY
	_____	_____	_____
	Signature / Date	Name / Signature / Date	Name / Signature / Date