



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-NAB_GLOBE_VALVE_API_623_FOR_SEAWATER			<b>NAB Globe Valve – API 623 for Seawater -- Technical Datasheet</b>	Page	1 OF 1
Rev.	A				Date	13-Jun-2026
<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.	API 623, BS 1873, ASME B16.34, API 598				
<b>1</b>	<b>GENERAL</b>					
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / 300 (PN16 / PN25)		
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required		
4	Design Standard	API 623, BS 1873, ASME B16.34, API 598		Pressure Class / Rating	Class 150 / 300 (PN16 / PN25)	
5	Valve Size, Inlet x Outlet	1/2" to 12" (DN15 – DN300)		End Connection	Flanged RF per ASME B16.5 / Screwed	
6	Valve Type / Model	NAB Globe Valve – API 623 for Seawater		Operation Mode	OS&Y globe pattern in Nickel Aluminium Bronze for fine throttling and isolation of corrosive seawater and brine streams in desalination and marine systems	
6A	Service / Application	Seawater Throttling, Desalination Dosing, Offshore Platforms, Marine Cooling		Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>					
8	Design Pressure	Class 150 / 300 (PN16 / PN25)		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150 / 300 (PN16 / PN25)		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 Throttling, Desalination Dosing, Offshore Platforms, Marine Cooling		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)	
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>					
14	Type of Valve Operator	OS&Y globe pattern in Nickel Aluminium Bronze for fine throttling and isolation of corrosive seawater and brine streams in desalination and marine systems		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	
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>					
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)		
	Body	As per project specification		Nickel Aluminium Bronze (NAB) -- C95800 / CuAl10Fe5Ni5 (ASTM B148 / BS EN 1982)		
	Bonnet / Cover	As per standard		As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard		NAB C95800 / SS316 / NAB / Stellite hardfaced		
	Stem / Spindle	As per standard		NAB / SS316 / Monel		
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard		Super Duplex / Monel K500		
<b>17</b>	<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)	
<b>22</b>	<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				
<b>26</b>	<b>NOTES</b>					

1. This datasheet covers standard specifications for NAB Globe Valve – API 623 for Seawater.

2. Design Standard: API 623, BS 1873, ASME B16.34, API 598.
3. Application / Service: Seawater Throttling, Desalination Dosing, Offshore Platforms, Marine Cooling.
4. Size Range: 1/2" to 12" (DN15 – DN300). Pressure Rating: Class 150 / 300 (PN16 / PN25).
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 C95500 and Duplex SS trims available on request -- ideal for seawater & desalination.
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			
	<b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad  _____ Signature / Date	<b>REVIEWED BY</b>  _____ Name / Signature / Date	<b>APPROVED BY</b>  _____ Name / Signature / Date