



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-BX_TYPE_CRYOGENIC_GLOBE_VALVE			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
BX Type Cryogenic Globe Valve -- 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 6364, BS 1873, ASME B16.34			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 150 / 300 / 600	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	BS 6364, BS 1873, ASME B16.34		Pressure Class / Rating	ASME Class 150 / 300 / 600
5	Valve Size, Inlet x Outlet	1/2" to 12" (DN15 – DN300)		End Connection	Flanged RF per ASME B16.5 / Butt Weld per ASME B16.25
6	Valve Type / Model	BX Type Cryogenic Globe Valve		Operation Mode	Extended-bonnet OS&Y globe valve for fine throttling and isolation of cryogenic LNG/LPG and gas streams down to -196°C -- handwheel or actuator operated, BS 6364 cryogenic-tested
6A	Service / Application	LNG Terminals, LPG Storage, Air Separation, Cryogenic Gas Plants		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 150 / 300 / 600		Design Temp. Min / Max	-196°C to +80°C (cryogenic) -- per project
9	Operating Pressure	ASME Class 150 / 300 / 600		Operating Temp.	-196°C to +45°C -- project-specific
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	N/A -- Product Datasheet
11	Fluid Handled / Service	LNG Terminals, LPG Storage, Air Separation, Cryogenic Gas Plants		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	Extended-bonnet OS&Y globe valve for fine throttling and isolation of cryogenic LNG/LPG and gas streams down to -196°C -- handwheel or actuator operated, BS 6364 cryogenic-tested		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		ASTM A351 CF8M / CF3M (SS316/316L) / A350 LF2	
	Bonnet / Cover	As per standard		Extended cryogenic bonnet (vapour column protects packing)	
	Trim (Disc / Seat)	As per standard		SS316 + Stellite hardfacing / soft cryogenic seat	
	Stem / Spindle	As per standard		A182 F316, OS&Y rising	
	Gasket / Packing	As per standard		PTFE / Graphite, low-temperature rated	
	Bolting / Nuts	As per standard		ASTM A320 L7 (cryogenic-rated)	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 15.3 MPa (2225 psi)		Seat / Pneumatic Test	Hydrostatic 11.2 MPa (1630 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 BX Type Cryogenic Globe Valve.
2. Design Standard: BS 6364, BS 1873, ASME B16.34.
3. Application / Service: LNG Terminals, LPG Storage, Air Separation, Cryogenic Gas Plants.
4. Size Range: 1/2" to 12" (DN15 – DN300). Pressure Rating: ASME Class 150 / 300 / 600.
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: Class 150 / 300 / 600; bellows-seal cryogenic option 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