



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-HIGH_PRESSURE BALL_VALVE_10000_PSI_690_BAR			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>High Pressure Ball Valve – 10000 PSI (690 bar) -- 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.	ASME B16.34 (Special Class), API 608, NACE MR0175			
<b>1</b>	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	10000 PSI (690 bar) Working Pressure	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	ASME B16.34 (Special Class), API 608, NACE MR0175	Pressure Class / Rating	10000 PSI (690 bar) Working Pressure	
5	Valve Size, Inlet x Outlet	1/4" to 4" (DN8 – DN100)	End Connection	NPT / Socket Weld / Flanged / Medium-pressure cone & thread	
6	Valve Type / Model	High Pressure Ball Valve – 10000 PSI (690 bar)	Operation Mode	Forged high-integrity ball valve rated to 10000 psi WP -- lever or gear operated for hydraulic power units, well testing, and chemical injection skids	
6A	Service / Application	Hydraulic Power Units, Well Testing, Chemical Injection, Offshore High Pressure	Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	10000 PSI (690 bar) Working Pressure	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	10000 PSI (690 bar) Working Pressure	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	Hydraulic Power Units, Well Testing, Chemical Injection, Offshore High Pressure	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	Forged high-integrity ball valve rated to 10000 psi WP -- lever or gear operated for hydraulic power units, well testing, and chemical injection skids	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	Forged ASTM A105 / A182 F316 (Stainless) / Duplex		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	A182 F316 / 17-4PH, hard chrome plated / PEEK / Devlon / Reinforced PTFE (metal-seated option)		
	Stem / Spindle	As per standard	A182 F316 / 17-4PH, blowout-proof		
	Gasket / Packing	As per standard	Viton / PEEK, high-pressure rated		
	Bolting / Nuts	As per standard	ASTM A193 B7 / B8M		
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 103.4 MPa (15000 psi) -- 1.5x WP	Seat / Pneumatic Test	Hydrostatic 75.8 MPa (11000 psi) -- 1.1x WP	
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			

**26 NOTES**

1. This datasheet covers standard specifications for High Pressure Ball Valve – 10000 PSI (690 bar).
2. Design Standard: ASME B16.34 (Special Class), API 608, NACE MR0175.
3. Application / Service: Hydraulic Power Units, Well Testing, Chemical Injection, Offshore High Pressure.
4. Size Range: 1/4" to 4" (DN8 – DN100). Pressure Rating: 10000 PSI (690 bar) Working Pressure.
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: Metal-seated, Inconel 625, and sour-service NACE configurations 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			
	<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