



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-PRESSURE_SEAL_GATE_VALVE_CLASS_600_900_1500			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Pressure Seal Gate Valve Class 600/900/1500 -- 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 600 / BS 1414, ASME B16.34, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 600 / 900 / 1500	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 600 / BS 1414, ASME B16.34, API 598		Pressure Class / Rating	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50 – DN600)	End Connection		
6	Valve Type / Model	Pressure Seal Gate Valve Class 600/900/1500	Operation Mode		Pressure-energized bonnet seal tightens under line pressure -- OS&Y rising-stem gate for Class 600/900/1500 high-pressure steam mains and boiler feed; gear or motor operated
6A	Service / Application	Power Plant Steam Mains, Boiler Feed, Refineries, High Pressure Process	Fluid State		Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	ASME Class 600 / 900 / 1500		Design Temp. Min / Max	
9	Operating Pressure	ASME Class 600 / 900 / 1500		Operating Temp.	
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	
11	Fluid Handled / Service	Power Plant Steam Mains, Boiler Feed, Refineries, High Pressure Process		Corrosion Allowance	
12	Required Capacity / Flow Rate	As per valve size and pressure class		Location / Installation	
13	VALVE OPERATION REQUIREMENT				
14	Type of Valve Operator	Pressure-energized bonnet seal tightens under line pressure -- OS&Y rising-stem gate for Class 600/900/1500 high-pressure steam mains and boiler feed; gear or motor operated	Actuator Specification		ISO 5211 pad (actuated) -- Electric / Pneumatic / Hydraulic on request
15	Fail-Safe Position	As per project / application requirements		Accessories Required	
16	VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)				
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)	
	Body	As per project specification		ASTM A217 WC6 / WC9 (Cr-Mo Alloy Steel) / A216 WCB	
	Bonnet / Cover	As per standard		Pressure-seal type, WC6 / WC9 / A182 F22	
	Trim (Disc / Seat)	As per standard		A217 WC6 + Stellite 6 hardfacing / Stellite 6 overlay, integral	
	Stem / Spindle	As per standard		ASTM A182 F6a / F22, OS&Y rising	
	Gasket / Packing	As per standard		Flexible graphite pressure-seal ring + spiral wound gasket	
	Bolting / Nuts	As per standard		ASTM A193 B16 / A194 7	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 38.2 MPa (5550 psi)		Seat / Pneumatic Test	
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	
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 Pressure Seal Gate Valve Class 600/900/1500.
2. Design Standard: API 600 / BS 1414, ASME B16.34, API 598.
3. Application / Service: Power Plant Steam Mains, Boiler Feed, Refineries, High Pressure Process.
4. Size Range: 2" to 24" (DN50 – DN600). Pressure Rating: ASME Class 600 / 900 / 1500.
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: A182 F91 / F22 high-temperature and A351 CF8M trims 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			
<p style="text-align: center;">PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad</p> <p>_____</p> <p style="text-align: center;">Signature / Date</p>		<p style="text-align: center;">REVIEWED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	
		<p style="text-align: center;">APPROVED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	