



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-PRESSURE_SEAL_GATE_VALVE_CLASS_900			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>Pressure Seal Gate Valve Class 900 -- 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.	API 600, ASME B16.34, BS 1414			
1	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 900 and above (1500 / 2500 on request)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 600, ASME B16.34, BS 1414		Pressure Class / Rating	Class 900 and above (1500 / 2500 on request)
5	Valve Size, Inlet x Outlet	2" to 24" (DN50–DN600)		End Connection	Flanged RF / RTJ, ASME B16.5 or Butt Weld ASME B16.25
6	Valve Type / Model	Pressure Seal Gate Valve Class 900		Operation Mode	OS&Y rising stem with pressure-energized bonnet seal that tightens under line pressure -- gear or motor operated for high-pressure power & process steam mains
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation		Fluid State	Liquid / Gas / Steam (as applicable)
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	Class 900 and above (1500 / 2500 on request)		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project
9	Operating Pressure	Class 900 and above (1500 / 2500 on request)		Operating Temp.	Saturated / superheated steam -- project-specific
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	N/A -- Product Datasheet
11	Fluid Handled / Service	Oil & Gas, Petrochemical, Water Treatment, Power Generation		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	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	OS&Y rising stem with pressure-energized bonnet seal that tightens under line pressure -- gear or motor operated for high-pressure power & process steam mains		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	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)	
	Body	As per project specification		ASTM A217 WC6 (Cr-Mo Alloy Steel)	
	Bonnet / Cover	As per standard		Pressure-seal type, A217 WC6 / WC9 / A182 F22	
	Trim (Disc / Seat)	As per standard		A217 WC6 + Stellite 6 hardfacing / Stellite 6 overlay, integral or renewable	
	Stem / Spindle	As per standard		A182 F6a / F22	
	Gasket / Packing	As per standard		Flexible graphite pressure-seal ring + spiral wound gasket	
	Bolting / Nuts	As per standard		A193 B16 / A194 7	
17	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 23.0 MPa (3335 psi)		Seat / Pneumatic Test	Hydrostatic 16.8 MPa (2440 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	<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	<b>NOTES</b>				

1. This datasheet covers standard specifications for Pressure Seal Gate Valve Class 900.
2. Design Standard: API 600, ASME B16.34, BS 1414.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 2" to 24" (DN50–DN600). Pressure Rating: Class 900 and above (1500 / 2500 on request).
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: A217 WC9, A182 F22/F91 for high-temperature steam mains 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	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