



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-API_600_CLASS_900_GATE_VALVE			API 600 Class 900 Gate Valve (OS&Y Bolted Bonnet, Flexible Wedge) -- Technical Datasheet	Page	1 OF 1
Rev.	A				Date	13-Jun-2026
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, ASME B16.34, ASME B16.10, API 598				
1	GENERAL					
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 900 (working pressure up to 150 bar)		
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required		
4	Design Standard	API 600, ASME B16.34, ASME B16.10, API 598		Pressure Class / Rating	ASME Class 900 (working pressure up to 150 bar)	
5	Valve Size, Inlet x Outlet	2" to 12" (DN50 – DN300)		End Connection	Flanged RF / RTJ per ASME B16.5 or Butt Weld (BW)	
6	Valve Type / Model	API 600 Class 900 Gate Valve (OS&Y Bolted Bonnet, Flexible Wedge)		Operation Mode	OS&Y rising-stem flexible wedge gate with integral guide ribs and Stellite seats -- handwheel, gear, or motor operated for high-pressure refinery and power-steam isolation	
6A	Service / Application	Refineries, Power Steam Generation, Petrochemical, High Pressure Process		Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS					
8	Design Pressure	ASME Class 900 (working pressure up to 150 bar)		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project	
9	Operating Pressure	ASME Class 900 (working pressure up to 150 bar)		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	Refineries, Power Steam Generation, Petrochemical, High Pressure Process		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	OS&Y rising-stem flexible wedge gate with integral guide ribs and Stellite seats -- handwheel, gear, or motor operated for high-pressure refinery and power-steam isolation		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 A216 WCB / A352 LCB (Low Temp) / A351 CF8M		
	Bonnet / Cover	As per standard		Spiral Wound SS316 + Graphite / Ring Joint (RTJ)		
	Trim (Disc / Seat)	As per standard		ASTM A216 WCB with 13Cr (F6a) overlay, integral guide ribs / Carbon Steel overlaid with Stellite 6 (HF)		
	Stem / Spindle	As per standard		ASTM A276 Type 410 (13Cr) ground-finish, OS&Y rising		
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H (B16 for high temp)		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS					
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	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 API 600 Class 900 Gate Valve (OS&Y Bolted Bonnet, Flexible Wedge).
2. Design Standard: API 600, ASME B16.34, ASME B16.10, API 598.
3. Application / Service: Refineries, Power Steam Generation, Petrochemical, High Pressure Process.
4. Size Range: 2" to 12" (DN50 – DN300). Pressure Rating: ASME Class 900 (working pressure up to 150 bar).
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: A352 LCB low-temp and A351 CF8M stainless bodies; NACE MR0175 trim 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