



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-GATE_VALVE_2_INCH_CLASS_600_WCB_SS316_TRIM			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Gate Valve 2 Inch Class 600 WCB SS316 Trim -- Technical Datasheet					
<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, ASME B16.10, API 598			
<b>1</b>	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	ASME Class 600	
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	
5	Valve Size, Inlet x Outlet	2" (DN50)	End Connection		Flanged RF per ASME B16.5
6	Valve Type / Model	Gate Valve 2 Inch Class 600 WCB SS316 Trim		Operation Mode	
6A	Service / Application	Oil & Gas, Petrochemical, Refineries, Process Isolation		Fluid State	
7	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	ASME Class 600		Design Temp. Min / Max	
9	Operating Pressure	ASME Class 600		Operating Temp.	
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	
11	Fluid Handled / Service	Oil & Gas, Petrochemical, Refineries, Process Isolation		Corrosion Allowance	
12	Required Capacity / Flow Rate	As per valve size and pressure class		Location / Installation	
13	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	2" Class 600 OS&Y bolted-bonnet wedge gate with SS316 trim -- handwheel operated isolation for hydrocarbon and process service		Actuator Specification	
15	Fail-Safe Position	As per project / application requirements		Accessories Required	
16	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)	
	Body	As per project specification		ASTM A216 WCB (Carbon Steel)	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		A216 WCB + SS316 overlay / CF8M solid / SS316 / Stellite hardfaced	
	Stem / Spindle	As per standard		ASTM A182 F316, OS&Y rising	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H	
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 15.3 MPa (2225 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	<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			
<b>26</b>	<b>NOTES</b>				

1. This datasheet covers standard specifications for Gate Valve 2 Inch Class 600 WCB SS316 Trim.
2. Design Standard: API 600, ASME B16.34, ASME B16.10, API 598.
3. Application / Service: Oil & Gas, Petrochemical, Refineries, Process Isolation.
4. Size Range: 2" (DN50). Pressure Rating: ASME Class 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: Full A351 CF8M body, NACE MR0175 trim, and bellows-seal options 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