



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-HASTELLOY_C276_GATE_VALVE_CLASS_150			Hastelloy C276 Gate Valve Class 150 -- 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 603 / BS 1414, ASME B16.34, API 598				
1	GENERAL					
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150		
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required		
4	Design Standard	API 603 / BS 1414, ASME B16.34, API 598		Pressure Class / Rating	Class 150	
5	Valve Size, Inlet x Outlet	1/2" to 12" (DN15 – DN300)		End Connection	Flanged RF per ASME B16.5 / Socket Weld	
6	Valve Type / Model	Hastelloy C276 Gate Valve Class 150		Operation Mode	OS&Y rising stem gate in Hastelloy C276 -- exceptional resistance to hydrochloric acid, wet chlorine, hypochlorite, and FGD scrubber chemistry where stainless steels fail	
6A	Service / Application	Hydrochloric Acid, Wet Chlorine, FGD Scrubbers, Aggressive Chemical Service		Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS					
8	Design Pressure	Class 150		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150		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	Hydrochloric Acid, Wet Chlorine, FGD Scrubbers, Aggressive Chemical Service		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 gate in Hastelloy C276 -- exceptional resistance to hydrochloric acid, wet chlorine, hypochlorite, and FGD scrubber chemistry where stainless steels fail		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	Hastelloy C276 -- ASTM A494 CW-12MW (cast) / B574 N10276 (wrought)			
	Bonnet / Cover	As per standard	As per standard / matching body grade			
	Trim (Disc / Seat)	As per standard	Hastelloy C276 (CW-12MW) / Hastelloy C276 integral / hardfaced			
	Stem / Spindle	As per standard	Hastelloy C276 (B574 N10276)			
	Gasket / Packing	As per standard	PTFE / Spiral wound PTFE-filled			
	Bolting / Nuts	As per standard	B7M / B8M (Hastelloy on request)			
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS					
18	Hydrostatic Shell Test	Hydrostatic 3.1 MPa (450 psi)		Seat / Pneumatic Test	Hydrostatic 2.2 MPa (320 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 Hastelloy C276 Gate Valve Class 150.
2. Design Standard: API 603 / BS 1414, ASME B16.34, API 598.
3. Application / Service: Hydrochloric Acid, Wet Chlorine, FGD Scrubbers, Aggressive Chemical Service.
4. Size Range: 1/2" to 12" (DN15 – DN300). Pressure Rating: Class 150.
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: Globe, ball, and check patterns in C276 available; C22 / B2 alloys 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	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date