



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-STAINLESS_STEEL_SLURRY_PULP_KNIFE_GATE_VALVE_CF8_CF8M			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Stainless Steel Slurry & Pulp Knife Gate Valve -- CF8 / CF8M (MSS SP-81) -- 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.	MSS SP-81, EN 593, API 598			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	PN10 / Class 150	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	MSS SP-81, EN 593, API 598	Pressure Class / Rating	PN10 / Class 150	
5	Valve Size, Inlet x Outlet	DN50 to DN600 (2" to 24")	End Connection	Wafer / Lugged between flanges, ASME B16.5 / PN drilling	
6	Valve Type / Model	Stainless Steel Slurry & Pulp Knife Gate Valve -- CF8 / CF8M (MSS SP-81)	Operation Mode	Bevelled, high-polish SS316 gate shears through fibrous pulp and abrasive slurry -- handwheel, bevel-gear, pneumatic, or electric actuation; MSS SP-81 compliant	
6A	Service / Application	Slurry & Pulp, Mining & Mineral Processing, Wastewater, Cement	Fluid State	Liquid / Gas / Steam (as applicable)	
7	DESIGN CONDITIONS				
8	Design Pressure	PN10 / Class 150	Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project	
9	Operating Pressure	PN10 / Class 150	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	Slurry & Pulp, Mining & Mineral Processing, Wastewater, Cement	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	Bevelled, high-polish SS316 gate shears through fibrous pulp and abrasive slurry -- handwheel, bevel-gear, pneumatic, or electric actuation; MSS SP-81 compliant	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 A351 CF8 / CF8M / CF3M (Cast Stainless Steel)		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	SS316 high-polish bevelled gate / Metal-to-metal / EPDM / NBR / PTFE replaceable		
	Stem / Spindle	As per standard	SS, OS&Y rising stem		
	Gasket / Packing	As per standard	PTFE / Braided Graphite, adjustable		
	Bolting / Nuts	As per standard	SS304 / SS316		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 1.5 MPa (15 bar) -- 1.5x PN10	Seat / Pneumatic Test	Hydrostatic 1.1 MPa (11 bar) -- 1.1x PN10	
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 Stainless Steel Slurry & Pulp Knife Gate Valve -- CF8 / CF8M (MSS SP-81).
2. Design Standard: MSS SP-81, EN 593, API 598.
3. Application / Service: Slurry & Pulp, Mining & Mineral Processing, Wastewater, Cement.
4. Size Range: DN50 to DN600 (2" to 24"). Pressure Rating: PN10 / 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: Deflection cone, purge ports, and CF3M low-carbon body for welded service 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			
<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>