



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-ELECTRIC_ACTUATOR_OPERATED_KNIFE_GATE_VALVE_ROTARY		Electric Actuator Operated Knife Gate Valve -- Rotary / Modulating -- 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.	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			
6	Valve Type / Model	Electric Actuator Operated Knife Gate Valve -- Rotary / Modulating	Operation Mode	Knife gate valve driven by a high-torque multi-turn IP67 electric actuator -- automated on/off or modulating control with local/remote operation for bulk handling, mining, and power-plant ash systems			
6A	Service / Application	Automated Bulk Handling, Mining, Power Plants, Water Treatment	Fluid State	Liquid / Gas / Steam (as applicable)			
7	DESIGN CONDITIONS						
8	Design Pressure	PN10 / Class 150	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request			
9	Operating Pressure	PN10 / 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	Automated Bulk Handling, Mining, Power Plants, Water Treatment	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	Knife gate valve driven by a high-torque multi-turn IP67 electric actuator -- automated on/off or modulating control with local/remote operation for bulk handling, mining, and power-plant ash systems	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 CF8M (SS) or Ductile Iron GGG40 + Electric Actuator				
	Bonnet / Cover	As per standard	As per standard / matching body grade				
	Trim (Disc / Seat)	As per standard	SS316 bevelled / polished / Metal / EPDM / NBR / PTFE replaceable				
	Stem / Spindle	As per standard	As per standard				
	Gasket / Packing	As per standard	Spiral wound SS316 + graphite				
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H				
	Actuator	As per standard	Multi-Turn Electric Actuator, IP67 equivalent				
	Control Modes	As per standard	Open/Close or 4--20 mA Modulating				
	Power	As per standard	3-Phase / 1-Phase, local & remote control				
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	
	<ol style="list-style-type: none"> 1. This datasheet covers standard specifications for Electric Actuator Operated Knife Gate Valve -- Rotary / Modulating. 2. Design Standard: MSS SP-81, EN 593, API 598. 3. Application / Service: Automated Bulk Handling, Mining, Power Plants, Water Treatment. 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: Integral starter, position transmitter, and explosion-proof (Ex d) actuators 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
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue
	Prepared / Reviewed / Approved Supreme Valves India -- Technical Department		
AP	DOCUMENT APPROVAL		
	PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad	REVIEWED BY	APPROVED BY
	_____ Signature / Date	_____ Name / Signature / Date	_____ Name / Signature / Date