



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-DUCTILE_IRON_WAFER_KNIFE_EDGE_GATE_VALVE_GGG40		Ductile Iron Wafer Knife Edge Gate Valve -- GGG40 / Cast Iron -- 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 Semi-Lugged between flanges, ASME B16.5 / PN drilling			
6	Valve Type / Model	Ductile Iron Wafer Knife Edge Gate Valve -- GGG40 / Cast Iron	Operation Mode	Economical Ductile Iron GGG40 body with SS304/316 gate and resilient seat - handwheel, gear, pneumatic, or electric operation for wastewater, bulk solids, and tailings			
6A	Service / Application	Wastewater, Bulk Solids, Mining Tailings, 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	Wastewater, Bulk Solids, Mining Tailings, 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	Economical Ductile Iron GGG40 body with SS304/316 gate and resilient seat - handwheel, gear, pneumatic, or electric operation for wastewater, bulk solids, and tailings	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	Ductile Iron GGG40 (EN-GJS-400) / Cast Iron GG25				
	Bonnet / Cover	As per standard	As per standard / matching body grade				
	Trim (Disc / Seat)	As per standard	Stainless Steel 304 / 316 (AISI) / Resilient EPDM / NBR (replaceable)				
	Stem / Spindle	As per standard	SS, OS&Y rising stem				
	Gasket / Packing	As per standard	PTFE / Graphite, adjustable				
	Bolting / Nuts	As per standard	ASTM A193 B7 / A194 2H				
	Coating	As per standard	Epoxy / Fusion-bonded epoxy				
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
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26	NOTES
<p>1. This datasheet covers standard specifications for Ductile Iron Wafer Knife Edge Gate Valve -- GGG40 / Cast Iron.</p> <p>2. Design Standard: MSS SP-81, EN 593, API 598.</p> <p>3. Application / Service: Wastewater, Bulk Solids, Mining Tailings, Water Treatment.</p> <p>4. Size Range: DN50 to DN600 (2" to 24"). Pressure Rating: PN10 / Class 150.</p> <p>5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.</p> <p>6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</p> <p>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.</p> <p>8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.</p> <p>9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</p> <p>10. Alternative / upgraded materials: Bi-directional seat, full-lugged body, and chainwheel operators available on request.</p> <p>11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</p> <p>12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</p> <p>13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</p> <p>14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</p>	

RH	REVISION HISTORY
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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
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PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad _____ Signature / Date	REVIEWED BY _____ Name / Signature / Date	APPROVED BY _____ Name / Signature / Date
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