



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-ECCENTRIC_PLUG_VALVE_CLASS_150			Eccentric Plug 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.	MSS SP-78, ASME B16.34, ASME B16.5				
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	MSS SP-78, ASME B16.34, ASME B16.5	Pressure Class / Rating	Class 150		
5	Valve Size, Inlet x Outlet	2" to 24" (DN50–DN600)	End Connection	Flanged RF, ASME B16.5		
6	Valve Type / Model	Eccentric Plug Valve Class 150	Operation Mode	Eccentric plug rotates out of flow path on opening -- tight shut-off with low torque, gear/lever operated, suited to sludge, pulp & wastewater service		
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation	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	Oil & Gas, Petrochemical, Water Treatment, Power Generation	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	Eccentric plug rotates out of flow path on opening -- tight shut-off with low torque, gear/lever operated, suited to sludge, pulp & wastewater service	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 A216 WCB (Carbon Steel) / Ductile Iron ASTM A536			
	Bonnet / Cover	As per standard	As per standard / matching body grade			
	Trim (Disc / Seat)	As per standard	Ductile Iron / A216 WCB with welded-overlay or RPTFE sleeve / Welded-overlay (Ni-based) for metal seat, or RPTFE for resilient seat			
	Stem / Spindle	As per standard	SS316 with PTFE/PEEK bearings			
	Gasket / Packing	As per standard	Non-asbestos / spiral wound SS316			
	Bolting / Nuts	As per standard	A193 B7 / A194 2H			
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 Eccentric Plug Valve Class 150.

2. Design Standard: MSS SP-78, ASME B16.34, ASME B16.5.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 2" to 24" (DN50–DN600). 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: A351 CF8M (SS316) body 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.

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

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