



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-RUBBER_LINED_DIAPHRAGM_VALVE_WEIR			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Rubber-Lined Diaphragm Valve Weir Type -- 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.	BS EN 13397 / BS 5156, ASME B16.34			
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	BS EN 13397 / BS 5156, ASME B16.34		Pressure Class / Rating	PN10 / Class 150
5	Valve Size, Inlet x Outlet	DN15 to DN300 (1/2" to 12")		End Connection	Flanged ASME B16.1 / PN drilling
6	Valve Type / Model	Rubber-Lined Diaphragm Valve Weir Type		Operation Mode	Weir-style flexible diaphragm isolates the bonnet and working parts from corrosive, abrasive, or viscous media -- bubble-tight shut-off and fine throttling for slurry, dosing, and water treatment
6A	Service / Application	Corrosive Slurry, Chemical Dosing, Water Treatment, Mining		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	Corrosive Slurry, Chemical Dosing, Water Treatment, Mining		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	Weir-style flexible diaphragm isolates the bonnet and working parts from corrosive, abrasive, or viscous media -- bubble-tight shut-off and fine throttling for slurry, dosing, and water treatment		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 / ASTM A216 WCB, Rubber / PTFE / PVDF Lined	
	Bonnet / Cover	As per standard		Ductile Iron / WCB	
	Trim (Disc / Seat)	As per standard		EPDM / Natural Rubber / Butyl / PTFE (PFA backed)	
	Stem / Spindle	As per standard		Ductile Iron / SS, handwheel operated	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		A193 B7 / SS304	
	Lining	As per standard		Hard or Soft Rubber / PTFE / PVDF	
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 Rubber-Lined Diaphragm Valve Weir Type.
2. Design Standard: BS EN 13397 / BS 5156, ASME B16.34.
3. Application / Service: Corrosive Slurry, Chemical Dosing, Water Treatment, Mining.
4. Size Range: DN15 to DN300 (1/2" to 12"), 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: Straight-through (full-bore) body and pneumatic/electric actuation 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		
PREPARED BY	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date