



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-SUPREME_SEMI_LIFT_DIAPHRAGM_OPERATED_PLASTIC_SOLENOID_VALVE_NC			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Supreme Semi Lift Diaphragm Operated Plastic Solenoid Valve NC -- 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.	IS 14735 / IEC 60947, coil IP65 per IEC 60529			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	IS 14735 / IEC 60947, coil IP65 per IEC 60529		Pressure Class / Rating	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)
5	Valve Size, Inlet x Outlet	1/4" to 2" (screwed)		End Connection	Screwed BSP / NPT (flanged on 2½" and larger)
6	Valve Type / Model	Supreme Semi Lift Diaphragm Operated Plastic Solenoid Valve NC		Operation Mode	2/2-Way normally closed (nc) semi-lift diaphragm, plastic body solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 140°C. Manual override and DIN 43650 connector available.
6A	Service / Application	Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request
9	Operating Pressure	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)		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	Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment		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	2/2-Way normally closed (nc) semi-lift diaphragm, plastic body solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 140°C. Manual override and DIN 43650 connector available.		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	Reinforced Polyamide / PP body		
	Bonnet / Cover	As per standard	As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard	NBR / EPDM / Viton (FKM) / PTFE -- selected per media		
	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		
	Coil	As per standard	Class F / H insulation, continuously rated, IP65 (Ex d / IP67 on request)		
	Core / Plunger Tube	As per standard	Stainless Steel 304 / 430F		
	Seat	As per standard	PTFE / metal (per service)		
	Spring	As per standard	Stainless Steel 304 / 316		

17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS		
18	Hydrostatic Shell Test	Hydrostatic shell test per IS 14735 / manufacturer standard	Seat / Pneumatic Test Pneumatic seat leak test -- bubble-tight at rated differential
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"> This datasheet covers standard specifications for Supreme Semi Lift Diaphragm Operated Plastic Solenoid Valve NC. Design Standard: IS 14735 / IEC 60947, coil IP65 per IEC 60529. Application / Service: Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment. Size Range: 1/4" to 2" (screwed). Pressure Rating: 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request). All valves are manufactured new and unused by an ISO 9001 compliant foundry. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost. 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. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction. Alternative / upgraded materials: Body options: Reinforced Polyamide / PP. Viton / EPDM / PTFE seals per media; explosion-proof (Ex d) and plastic-body variants on request.. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements. 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