



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-SUPREME_PILOT_OPERATED_DIAPHRAGM_VALVE_NO			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Supreme Pilot Operated Diaphragm Valve NO -- 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	1¼", 1½", 2½" (screwed)		End Connection	Screwed BSP / NPT (flanged on 2½" and larger)
6	Valve Type / Model	Supreme Pilot Operated Diaphragm Valve NO		Operation Mode	2/2-Way normally open (no) pilot operated diaphragm solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature -30°C to 90°C; -10°C 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 open (no) pilot operated diaphragm solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature -30°C to 90°C; -10°C 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	CF8 (SS304) / CF8M (SS316) 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
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
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		
<p>1. This datasheet covers standard specifications for Supreme Pilot Operated Diaphragm Valve NO.</p> <p>2. Design Standard: IS 14735 / IEC 60947, coil IP65 per IEC 60529.</p> <p>3. Application / Service: Process Automation, Pneumatic Skids, Water / Air / Gas / Steam Control, OEM Equipment.</p> <p>4. Size Range: 1¼", 1½", 2½" (screwed). Pressure Rating: 0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request).</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: Body options: CF8 (SS304) / CF8M (SS316). Viton / EPDM / PTFE seals per media; explosion-proof (Ex d) and plastic-body variants 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		
	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