



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-SUPREME_PILOT_OPERATED_PISTON_TYPE_STEAM_VALVE_NC_NO_HCP_SERIES			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
<b>Supreme Pilot Operated Piston Type Steam Valve (NC/NO) - HCP Series -- Technical Datasheet</b>					
<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>				
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			
<b>1</b>	<b>GENERAL</b>				
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" (screwed)		End Connection	Screwed BSP / NPT (flanged on 2½" and larger)
6	Valve Type / Model	Supreme Pilot Operated Piston Type Steam Valve (NC/NO) - HCP Series		Operation Mode	2/2-Way nc or no pilot operated piston (steam service, hcp series) solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 180°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)
<b>7</b>	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project
9	Operating Pressure	0 to 16 bar differential (model dependent; vacuum and high-pressure PBN series on request)		Operating Temp.	Saturated / superheated steam -- project-specific
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)
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	2/2-Way nc or no pilot operated piston (steam service, hcp series) solenoid valve. Standard coils 24V DC and 110 / 230V AC 50/60 Hz (other voltages on request). Operating temperature Ambient to 180°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
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>				
	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	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>		
18	<b>Hydrostatic Shell Test</b>	Hydrostatic shell test per IS 14735 / manufacturer standard	<b>Seat / Pneumatic Test</b>
19	<b>NDT Requirements</b>	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request	
20	<b>Required Certificates / MTC</b>	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request	
21	<b>Witness / Inspection Agency</b>	Client / TPI representative (if specified)	<b>Third Party Inspection</b>
22	<b>PAINTING, PRESERVATION &amp; PACKING</b>		
23	<b>Painting / Coating Specification</b>	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request	
24	<b>Packing Requirement</b>	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request	
26	<b>NOTES</b>		
<p>1. This datasheet covers standard specifications for Supreme Pilot Operated Piston Type Steam Valve (NC/NO) - HCP Series.</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" (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>			

<b>RH</b>	<b>REVISION HISTORY</b>		
	<b>Rev.</b>	<b>Date</b>	<b>Description of Change</b>
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue
<b>AP</b>	<b>DOCUMENT APPROVAL</b>		
	<b>PREPARED BY</b> Supreme Valves India -- Technical Department, Ahmedabad	<b>REVIEWED BY</b>	<b>APPROVED BY</b>
	_____	_____	_____
	Signature / Date	Name / Signature / Date	Name / Signature / Date