



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026- IC_STEAM_TRAP_THERMODYNAMIC	I.C. Steam Trap Thermodynamic Type -- Technical Datasheet	Page	1 OF 1
Rev.	A		Date	24-May-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.	API / ASME / BS / IS / EN (as applicable)		
1	GENERAL			
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	As per product rating
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required
4	Design Standard	API / ASME / BS / IS / EN (as applicable)	Pressure Class / Rating	As per product rating
5	Valve Size, Inlet x Outlet	As per product range	End Connection	Flanged (FF/RF/RTJ) / Screwed (BSP/NPT) / Socket Weld / Butt Weld -- as per specification
6	Valve Type / Model	I.C. Steam Trap Thermodynamic Type	Operation Mode	Manual (Handwheel / Lever) -- Electric / Pneumatic / Hydraulic actuator available on request
6A	Service / Application	Industrial / Oil & Gas / Power / Water / Marine (as applicable)	Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS			
8	Design Pressure (barg)	As per pressure class rating	Design Temp. Min / Max (deg C)	-29 deg C to +425 deg C (standard) -- Higher/lower on request
9	Operating Pressure (barg)	As per pressure class rating	Operating Temp. (deg C)	Ambient to +200 deg C (standard) -- Project-specific on request
10	Set Pressure / Relief Pressure (barg)	N/A -- Product Datasheet	Back Pressure (barg)	N/A -- Product Datasheet
11	Fluid Handled / Service	As per application / service	Corrosion Allowance (mm)	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	Manual (Handwheel / Lever / Gear) -- Actuated options available	Actuator Specification No.	ISO 5211 mounting pad (for actuated valves) -- Electric / Pneumatic / Hydraulic actuator 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 design standard	As per design standard
	Bonnet / Cover	As per design standard	As per design standard
	Trim (Disc / Seat)	As per design standard	SS410 / SS316 / Bronze (as applicable)
	Stem / Spindle	As per design standard	SS410 / SS304 / SS316
	Gasket / Packing	As per design standard	Graphite / PTFE / CI Ring (as applicable)
	Bolting / Nuts	As per design standard	Carbon Steel / Alloy Steel (as applicable)

17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS		
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18	Hydrostatic Test	Shell 1.5 x WP, Seat 1.1 x WP	Seat / Pneumatic Test	Shell 1.5 x WP, Seat 1.1 x WP
19	NDT Requirements	100% MPI / DPT on machined surfaces (if specified by project) -- 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			
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23	Painting / Coating Specification	Standard: One coat primer + two coats synthetic enamel (colour as per client specification) -- Special coatings available on request		
24	Packing Requirement	Wooden cases / pallets with VCI protection -- Sea-worthy packing for export on request		

26	NOTES			
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<p>1. This datasheet covers standard specifications for I.C. Steam Trap Thermodynamic Type.</p> <p>2. Design Standard: API / ASME / BS / IS / EN / ISO (as applicable to product type).</p> <p>3. Application: Industrial process, oil & gas, power, water, HVAC, marine (as applicable for I.C. Steam Trap Thermodynamic Type).</p> <p>4. All valves are manufactured new and unused by ISO 9001 certified foundry.</p> <p>5. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</p> <p>6. Testing performed per ISO 5208 / API 598: Shell test at 1.5 x rated pressure, Seat test at 1.1 x rated pressure -- bubble-tight zero leakage.</p> <p>7. Face-to-face dimensions per ASME B16.10 / BS 2080 / Manufacturer standard unless otherwise specified.</p> <p>8. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</p> <p>9. Special materials (Duplex, Super Duplex, Inconel, Monel, Hastelloy, Titanium) available on request with extended delivery.</p> <p>10. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</p> <p>11. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</p> <p>12. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</p> <p>13. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</p>				
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RH	REVISION HISTORY			
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Rev.	Date	Description of Change	Prepared / Reviewed / Approved
A	24-May-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department

AP	DOCUMENT APPROVAL		
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PREPARED BY Supreme Valves India Technical Department Ahmedabad, India <hr/> Signature / Date	REVIEWED BY <hr/> Name / Signature / Date	APPROVED BY <hr/> Name / Signature / Date
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Gate Valve



Diaphragm Valve



Globe Valve



Check Valve



Needle Valve



Plug Valve



Butterfly Valve



Piston Valve



Relief Valve



Ball Valve