



# SUPREME ENTERPRISE

## Industrial Valves

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Doc. No.	SV-DATA-2026- STEAM_TRAP_THERMODYNAMIC	Steam Trap - Thermodynamic -- Technical Datasheet	Page	1 OF 1
Rev.	A		Date	24-May-2026

<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>			
<b>R1</b>	<b>P&amp;ID / Process Diagram</b>	N/A -- Product Datasheet	<b>Piping Material Spec.</b>	N/A -- Product Datasheet
<b>R2</b>	<b>Project Standard / Spec.</b>	API / ASME / BS / IS / EN (as applicable)		
<b>1</b>	<b>GENERAL</b>			
<b>2</b>	<b>P&amp;ID No. / Tag No.</b>	N/A -- Product Datasheet	<b>Piping Class</b>	As per product rating
<b>3</b>	<b>Valve Tag / Item No.</b>	N/A -- Product Datasheet	<b>Quantity Required</b>	As required
<b>4</b>	<b>Design Standard</b>	API / ASME / BS / IS / EN (as applicable)	<b>Pressure Class / Rating</b>	As per product rating
<b>5</b>	<b>Valve Size, Inlet x Outlet</b>	As per product range	<b>End Connection</b>	Flanged (FF/RF/RTJ) / Screwed (BSP/NPT) / Socket Weld / Butt Weld -- as per specification
<b>6</b>	<b>Valve Type / Model</b>	Steam Trap - Thermodynamic	<b>Operation Mode</b>	Manual (Handwheel / Lever) -- Electric / Pneumatic / Hydraulic actuator available on request
<b>6A</b>	<b>Service / Application</b>	Industrial / Oil & Gas / Power / Water / Marine (as applicable)	<b>Fluid State</b>	Liquid / Gas / Steam (as applicable)
<b>7</b>	<b>DESIGN CONDITIONS</b>			
<b>8</b>	<b>Design Pressure (barg)</b>	As per pressure class rating	<b>Design Temp. Min / Max (deg C)</b>	-29 deg C to +425 deg C (standard) -- Higher/lower on request
<b>9</b>	<b>Operating Pressure (barg)</b>	As per pressure class rating	<b>Operating Temp. (deg C)</b>	Ambient to +200 deg C (standard) -- Project-specific on request
<b>10</b>	<b>Set Pressure / Relief Pressure (barg)</b>	N/A -- Product Datasheet	<b>Back Pressure (barg)</b>	N/A -- Product Datasheet
<b>11</b>	<b>Fluid Handled / Service</b>	As per application / service	<b>Corrosion Allowance (mm)</b>	As per project specification
<b>12</b>	<b>Required Capacity / Flow Rate</b>	As per valve size and pressure class	<b>Location / Installation</b>	Indoor / Outdoor / Offshore / Marine (as applicable)
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>			
<b>14</b>	<b>Type of Valve Operator</b>	Manual (Handwheel / Lever / Gear) -- Actuated options available	<b>Actuator Specification No.</b>	ISO 5211 mounting pad (for actuated valves) -- Electric / Pneumatic / Hydraulic actuator on request
<b>15</b>	<b>Fail-Safe Position</b>	As per project / application requirements	<b>Accessories Required</b>	Limit switches, positioners, solenoid valves, manual override -- on request
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>			
	<b>Valve Part</b>	<b>Specified Material</b>	<b>Proposed Material (Supreme Valves India)</b>	

<b>Body</b>	As per design standard	As per design standard
<b>Bonnet / Cover</b>	As per design standard	As per design standard
<b>Trim (Disc / Seat)</b>	As per design standard	SS410 / SS316 / Bronze (as applicable)
<b>Stem / Spindle</b>	As per design standard	SS410 / SS304 / SS316
<b>Gasket / Packing</b>	As per design standard	Graphite / PTFE / CI Ring (as applicable)
<b>Bolting / Nuts</b>	As per design standard	Carbon Steel / Alloy Steel (as applicable)

<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>		
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<b>18</b>	<b>Hydrostatic Test</b>	Shell 1.5 x WP, Seat 1.1 x WP	<b>Seat / Pneumatic Test</b>	Shell 1.5 x WP, Seat 1.1 x WP
<b>19</b>	<b>NDT Requirements</b>	100% MPI / DPT on machined surfaces (if specified by project) -- Radiography / Ultrasonic on request		
<b>20</b>	<b>Required Certificates / MTC</b>	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / Third-party inspection on request		
<b>21</b>	<b>Witness / Inspection Agency</b>	Client / TPI representative (if specified)	<b>Third Party Inspection</b>	TUV / SGS / BV / Lloyds Register (client cost)

<b>22</b>	<b>PAINTING, PRESERVATION &amp; PACKING</b>			
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<b>23</b>	<b>Painting / Coating Specification</b>	Standard: One coat primer + two coats synthetic enamel (colour as per client specification) -- Special coatings available on request		
<b>24</b>	<b>Packing Requirement</b>	Wooden cases / pallets with VCI protection -- Sea-worthy packing for export on request		

<b>26</b>	<b>NOTES</b>			
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1. This datasheet covers standard specifications for Steam Trap - Thermodynamic.
2. Design Standard: API / ASME / BS / IS / EN / ISO (as applicable to product type).
3. Application: Industrial process, oil & gas, power, water, HVAC, marine (as applicable for Steam Trap - Thermodynamic).
4. All valves are manufactured new and unused by ISO 9001 certified foundry.
5. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.
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.
7. Face-to-face dimensions per ASME B16.10 / BS 2080 / Manufacturer standard unless otherwise specified.
8. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.
9. Special materials (Duplex, Super Duplex, Inconel, Monel, Hastelloy, Titanium) available on request with extended delivery.
10. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.
11. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.
12. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.
13. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.

<b>RH</b>	<b>REVISION HISTORY</b>			
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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

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