



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-THERMODYNAMIC_STEAM_TRAP_SS316			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Thermodynamic Steam Trap SS316 -- 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.	EN 26704 / ISO 6704, ASME B16.34			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Up to PN100 (per model, differential pressure dependent)	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	EN 26704 / ISO 6704, ASME B16.34		Pressure Class / Rating	Up to PN100 (per model, differential pressure dependent)
5	Valve Size, Inlet x Outlet	1/2" to 1" (DN15–DN25)		End Connection	Screwed BSP / NPT or Flanged ASME B16.5
6	Valve Type / Model	Thermodynamic Steam Trap SS316		Operation Mode	Self-acting thermodynamic disc with no moving linkage or wearing parts -- ideal for steam tracing lines, drip legs, and process drainage with SS316 internals for corrosive condensate
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	Up to PN100 (per model, differential pressure dependent)		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project
9	Operating Pressure	Up to PN100 (per model, differential pressure dependent)		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	Oil & Gas, Petrochemical, Water Treatment, Power Generation		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	Self-acting thermodynamic disc with no moving linkage or wearing parts -- ideal for steam tracing lines, drip legs, and process drainage with SS316 internals for corrosive condensate		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		Forged Carbon Steel ASTM A105 / SS316 body on request	
	Bonnet / Cover	As per standard		SS316, screwed or bolted	
	Trim (Disc / Seat)	As per standard		SS316 / Stellite-faced, hardened	
	Stem / Spindle	As per standard		As per standard	
	Gasket / Packing	As per standard		PTFE / spiral wound SS316	
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H	
	Strainer	As per standard		Integral SS316 mesh (optional)	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 1.5x max operating pressure		Seat / Pneumatic Test	Air/steam tightness test per EN 26704
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

1. This datasheet covers standard specifications for Thermodynamic Steam Trap SS316.
2. Design Standard: EN 26704 / ISO 6704, ASME B16.34.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 1/2" to 1" (DN15–DN25). Pressure Rating: Up to PN100 (per model, differential pressure dependent).
5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.
6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.
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.
8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.
9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.
10. Alternative / upgraded materials: Full SS316 body construction available for corrosive condensate on request.
11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.
12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.
13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.
14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.

RH REVISION HISTORY			
Rev.	Date	Description of Change	Prepared / Reviewed / Approved
A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department
AP DOCUMENT APPROVAL			
<p style="text-align: center;">PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad</p> <p>_____</p> <p style="text-align: center;">Signature / Date</p>		<p style="text-align: center;">REVIEWED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	
		<p style="text-align: center;">APPROVED BY</p> <p>_____</p> <p style="text-align: center;">Name / Signature / Date</p>	