



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-SAFETY_VALVE_FLANGED_STEAM_SERVICE			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Safety Valve Flanged — Steam Service -- 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 2825 / IBR, ASME Section I, API 526			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Set pressure per boiler/header design -- IBR approval available	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	IS 2825 / IBR, ASME Section I, API 526		Pressure Class / Rating	Set pressure per boiler/header design -- IBR approval available
5	Valve Size, Inlet x Outlet	15mm to 150mm (1/2" to 6")		End Connection	Flanged, ASME B16.5 / DIN PN16-PN40
6	Valve Type / Model	Safety Valve Flanged — Steam Service		Operation Mode	Full-lift spring-loaded safety valve with lever / test gag (optional) -- popping action at set pressure, IBR-approved for Indian boiler circuits
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	Set pressure per boiler/header design -- IBR approval available		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project
9	Operating Pressure	Set pressure per boiler/header design -- IBR approval available		Operating Temp.	Saturated / superheated steam -- project-specific
10	Set / Relief Pressure	Set pressure per boiler/header design -- IBR approval available		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	Full-lift spring-loaded safety valve with lever / test gag (optional) -- popping action at set pressure, IBR-approved for Indian boiler circuits		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	Cast Steel ASTM A216 WCB / SG Iron		
	Bonnet / Cover	As per standard	Cast Steel / SG Iron		
	Trim (Disc / Seat)	As per standard	SS316 / Stellite-faced / SS316 hardfaced, lapped metal-to-metal		
	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		
	Spring	As per standard	Alloy steel, temperature-rated		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 1.5x set pressure (min)		Seat / Pneumatic Test	Seat tightness per IS 2825 / IBR at set pressure
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 Safety Valve Flanged — Steam Service.
2. Design Standard: IS 2825 / IBR, ASME Section I, API 526.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 15mm to 150mm (1/2" to 6"). Pressure Rating: Set pressure per boiler/header design -- IBR approval available.
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: Bronze and SS316 body variants available for lower-temperature applications 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		
PREPARED BY	REVIEWED BY	APPROVED BY
Supreme Valves India -- Technical Department, Ahmedabad		
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Signature / Date	Name / Signature / Date	Name / Signature / Date