



SUPREME ENTERPRISE

Industrial Valves

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Rev.	A			Date	13-Jun-2026
Pressure Relief Valve API 526 Flanged -- 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.	API 526, API 527, ASME Section VIII, ASME B16.5			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Set pressure per process design -- ANSI Class 150 / 300 / 600 flanges	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	API 526, API 527, ASME Section VIII, ASME B16.5	Pressure Class / Rating	Set pressure per process design -- ANSI Class 150 / 300 / 600 flanges	
5	Valve Size, Inlet x Outlet	D to T orifice (1" x 2" to 6" x 8")	End Connection	Flanged RF, ASME B16.5	
6	Valve Type / Model	Pressure Relief Valve API 526 Flanged	Operation Mode	Spring-loaded, full-lift, pop-action overpressure protection for vessels, separators, and pipelines	
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 process design -- ANSI Class 150 / 300 / 600 flanges	Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Set pressure per process design -- ANSI Class 150 / 300 / 600 flanges	Operating Temp.	Ambient to +200°C (standard) -- project-specific on request	
10	Set / Relief Pressure	Set pressure per process design -- ANSI Class 150 / 300 / 600 flanges	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	Spring-loaded, full-lift, pop-action overpressure protection for vessels, separators, and pipelines	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	ASTM A216 WCB (Carbon Steel) / A351 CF8M		
	Bonnet / Cover	As per standard	WCB or CF8M, matching body grade		
	Trim (Disc / Seat)	As per standard	SS316 / Stellite-faced / Metal-to-metal, lapped		
	Stem / Spindle	As per standard	As per standard		
	Gasket / Packing	As per standard	Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard	A193 B7 / A194 2H		
	Spring	As per standard	Carbon Steel (PTFE coated) / SS316 / Inconel for high temp		
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Per ASME Section VIII shell hydrotest (1.5x design pressure)	Seat / Pneumatic Test	API 527 seat tightness test at set pressure tolerance	
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 Pressure Relief Valve API 526 Flanged.
2. Design Standard: API 526, API 527, ASME Section VIII, ASME B16.5.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: D to T orifice (1" x 2" to 6" x 8"). Pressure Rating: Set pressure per process design -- ANSI Class 150 / 300 / 600 flanges.
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: LCC, WC6, CF3M, and exotic trims available on request for sour/cryogenic service.
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 Supreme Valves India -- Technical Department, Ahmedabad _____ Signature / Date	REVIEWED BY _____ Name / Signature / Date	APPROVED BY _____ Name / Signature / Date