



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-SLAM_SHUT_SAFETY_VALVE			<b>Slam-Shut Safety Valve (Gas Over-Pressure Cut-Off, Class 150-600) -- Technical Datasheet</b>	Page	1 OF 1
Rev.	A				Date	13-Jun-2026
<b>R</b>	<b>REFERENCES &amp; RELATED DOCUMENTS</b>					
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet		
R2	Project Standard / Spec.	EN 14382, ASME B16.34, API 598				
<b>1</b>	<b>GENERAL</b>					
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 150 / 300 / 600		
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required		
4	Design Standard	EN 14382, ASME B16.34, API 598		Pressure Class / Rating	Class 150 / 300 / 600	
5	Valve Size, Inlet x Outlet	1" to 12" (DN25 – DN300)		End Connection	Flanged RF per ASME B16.5	
6	Valve Type / Model	Slam-Shut Safety Valve (Gas Over-Pressure Cut-Off, Class 150-600)		Operation Mode	Snaps fully shut in milliseconds on over-pressure (OPCO) or under-pressure (UPCO) without external power -- manual reset enforces downstream gas safety, protecting regulators and piping	
6A	Service / Application	Gas Distribution, City Gate Stations, LPG/Natural Gas Networks, Regulator Protection		Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>					
8	Design Pressure	Class 150 / 300 / 600		Design Temp. Min / Max	-29°C to +425°C (standard) -- higher/lower on request	
9	Operating Pressure	Class 150 / 300 / 600		Operating Temp.	Ambient to +200°C (standard) -- project-specific on request	
10	Set / Relief Pressure	Class 150 / 300 / 600		Back Pressure	N/A -- Product Datasheet	
11	Fluid Handled / Service	Gas Distribution, City Gate Stations, LPG/Natural Gas Networks, Regulator Protection		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)	
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>					
14	Type of Valve Operator	Snaps fully shut in milliseconds on over-pressure (OPCO) or under-pressure (UPCO) without external power -- manual reset enforces downstream gas safety, protecting regulators and piping		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	
<b>16</b>	<b>VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)</b>					
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)		
	Body	As per project specification		ASTM A216 WCB (Carbon Steel) / ASTM A352 LCB		
	Bonnet / Cover	As per standard		As per standard / matching body grade		
	Trim (Disc / Seat)	As per standard		Stainless Steel 304 with NBR / Viton soft seat overlay / NBR rubber / Fabric-reinforced Nitrile		
	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		
	Trigger Springs	As per standard		High-Tensile Spring Steel (interchangeable setpoints)		
	Reset	As per standard		Manual Reset only (fail-safe latched)		
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>					
18	Hydrostatic Shell Test	Hydrostatic 7.7 MPa (1125 psi)		Seat / Pneumatic Test	Hydrostatic 5.6 MPa (815 psi)	
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)	
<b>22</b>	<b>PAINTING, PRESERVATION &amp; PACKING</b>					

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
<b>26 NOTES</b>		
<p>1. This datasheet covers standard specifications for Slam-Shut Safety Valve (Gas Over-Pressure Cut-Off, Class 150-600).</p> <p>2. Design Standard: EN 14382, ASME B16.34, API 598.</p> <p>3. Application / Service: Gas Distribution, City Gate Stations, LPG/Natural Gas Networks, Regulator Protection.</p> <p>4. Size Range: 1" to 12" (DN25 – DN300). Pressure Rating: Class 150 / 300 / 600.</p> <p>5. All valves are manufactured new and unused by an ISO 9001 compliant foundry.</p> <p>6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost.</p> <p>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.</p> <p>8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified.</p> <p>9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction.</p> <p>10. Alternative / upgraded materials: LCB low-temperature body and custom OPKO/UPKO setpoint springs on request.</p> <p>11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator.</p> <p>12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost.</p> <p>13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements.</p> <p>14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team.</p>		

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