



# SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-PARALLEL_SLIDE_GATE_VALVE_STEAM_CLASS_600			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Parallel Slide Gate Valve Steam Class 600 -- Technical Datasheet					
<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.	BS 1414, API 600, ASME B16.34			
<b>1</b>	<b>GENERAL</b>				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	Class 600	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	BS 1414, API 600, ASME B16.34	Pressure Class / Rating	Class 600	
5	Valve Size, Inlet x Outlet	2" to 24" (DN50–DN600)	End Connection	Flanged RF / RTJ, ASME B16.5 or Butt Weld ASME B16.25	
6	Valve Type / Model	Parallel Slide Gate Valve Steam Class 600	Operation Mode	Twin parallel discs with spring-loaded equalizing feature prevent wedging under thermal cycling -- gear or motor operated for main steam isolation	
6A	Service / Application	Oil & Gas, Petrochemical, Water Treatment, Power Generation	Fluid State	Liquid / Gas / Steam (as applicable)	
<b>7</b>	<b>DESIGN CONDITIONS</b>				
8	Design Pressure	Class 600	Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project	
9	Operating Pressure	Class 600	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)	
<b>13</b>	<b>VALVE OPERATION REQUIREMENT</b>				
14	Type of Valve Operator	Twin parallel discs with spring-loaded equalizing feature prevent wedging under thermal cycling -- gear or motor operated for main steam isolation	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 / A217 WC6 (Cr-Mo Alloy Steel)		
	Bonnet / Cover	As per standard	WCB / WC6, bolted or pressure-seal		
	Trim (Disc / Seat)	As per standard	Two parallel discs, Stellite-faced, spring-loaded for equalizing / Stellite 6 hardfaced, integral		
	Stem / Spindle	As per standard	A182 F6a / F22		
	Gasket / Packing	As per standard	Spiral wound SS316 + graphite		
	Bolting / Nuts	As per standard	A193 B7 / B16		
<b>17</b>	<b>TESTING, INSPECTION &amp; CERTIFICATION REQUIREMENTS</b>				
18	Hydrostatic Shell Test	Hydrostatic 15.3 MPa (2225 psi)	Seat / Pneumatic Test	Hydrostatic 11.2 MPa (1630 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</b>	<b>NOTES</b>				

1. This datasheet covers standard specifications for Parallel Slide Gate Valve Steam Class 600.
2. Design Standard: BS 1414, API 600, ASME B16.34.
3. Application / Service: Oil & Gas, Petrochemical, Water Treatment, Power Generation.
4. Size Range: 2" to 24" (DN50–DN600). Pressure Rating: Class 600.
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: A217 WC9 / A182 F22 for high-temperature service available 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			
<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